BMC Minerals LTD

2017 GEOLOGICAL, GEOCHEMCIAL, GEOPHYSICAL, DIAMOND DRILLING AND GEOTECHNICAL PROGRAM REPORT ON THE KUDZ ZE KAYAH (KZK) PROPERTY

Field Work Completed Between June 3rd, 2017 and November 17th, 2017

Located in the Watson Lake Mining District, Yukon
NTS 105G/7, 8, 9 and 10
61˚ 31' N Latitude; 130˚ 33' W Longitude

-prepared for-

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SUMMARY

BMC Minerals' Kudz Ze Kayah ("KZK") Property consists of 879 quartz claims that cover 16005 hectares (160 km^2) of south-central Yukon and is centred at 61˚ 31' N latitude and 130˚ 33' W longitude on NTS map sheets 105G/7–10, within the Watson Lake Mining District. It is notable for containing the ABM and GP4F volcanogenic massive sulphide (VMS) deposits, which are located 5 km apart. The ABM deposit comprises an Indicated resource of 18.3 Mt at 0.9% Cu, 1.9% Pb, 6.3% Zn, 1.4 g/t Au and 148 g/t Ag and an Inferred resource of 0.9 Mt at 1.1% Cu, 1.6% Pb, 6.9% Zn, 1.1 g/t Au and 138 g/t Ag (BMC Minerals Ltd., 2016). Also on the KZK property, the GP4F deposit comprises an Indicated resource of 1.0 Mt at 0.2% Cu, 2.7% Pb, 5.7% Zn, 1.0 g/t Au and 83 g/t Ag and an Inferred resource of 0.7 Mt at 0.2% Cu, 2.4% Pb, 4.8% Zn, 2.0 g/t Au and 138 g/t Ag (BMC Minerals Ltd., 2016).

The 2017 field program included earthworks, terrain surveys (ground-based differential global positioning system (DGPS) and terrain hazard mapping), geological outcrop mapping, soil sampling and pH analysis, geophysics (surface fixed-loop transient electromagnetic [FLTEM] surveys and ground-based borehole electromagnetic [BHEM] surveys), exploration drilling (down-dip of ABM and in the ABM zone), geotechnical investigations (in-pit, geotechnical, and test pits), hydrogeological investigations, and environmental baseline surveys (Table 1).

Table 1: Summary of work done and filed for the 2017 KZK Project

Program	Work type/target	Description	Filed?
Earthworks	Construction	5.2 km of trail, 48 drill pads, 14 test pits	Yes
	Reclamation	0.65 ha including 44 drill pads and 14 test pits	Yes
Terrain Surveys	DGPS	41 surveyed points including most 2017 collars	Yes
	Terrain Hazard Mapping	64 km2 study area	Yes
Geological Outcrop Mapping	Phase I	~120 km2 of KZK property	Yes
	Phase II	Detailed mapping and prospecting of 5 prospective targets	Yes
	Limestone Prospecting	Detailed mapping and sampling on the Limy claims	Yes
Soil Sampling	Soil Sampling	2609 samples collected including 97 from orientation surveys, 44 blanks, and 74 field duplicates	Yes
	pH Analysis		Yes
	Geochemical Analysis	2608 samples analyzed	Yes
Geophysical Surveys	Surface EM	32.90 line-km FLTEM	Yes
	Borehole EM	3 holes surveyed for 2175 m	Yes
Exploration Drilling	Down-dip ABM	3 holes for 2269 m, 129 samples assayed, 28 whole rock geochemical samples	Yes
	ABM Zone	1 drill hole for 182 m, 42 samples assayed	Yes
	TerraSpec Study		Yes
	Acoustic Impedance Study		Yes
Geotechnical Investigations	Infrastructure Drilling	36 drill holes for 1389.7 m	Yes
	in-pit Drilling	9 drill holes for 1540 m, 77 samples assayed	Yes
	Test Pits	14 test pits	Yes
	Televiewer Surveys	8 holes surveyed for ~1323 m	Yes
Hydrogeological	Mine site	12 shallow monitoring wells installed	Yes
Environmental	Baseline studies	Water quality, wetland, vegetation and wildlife surveys	No
2017 TOTAL	**All work**	**48 holes for 4928.7 m, ~120 km^2 mapped, 292 samples assayed, 2609 soil samples, 32.9 km FLTEM, 2175 m BHEM, engineering and environmental studies**	

Earthworks done as part of the 2017 work program included drill pad and trail construction, test pit digging, as well as reclamation. During the 2017 report year 0.65 ha of land was reclaimed. The total un-reclaimed disturbance on the KZK Property as of December 2018 is 10.083 ha. The majority of the drill collars for the 2017 drill program were surveyed using a real time kinematic differential GPS. Drill holes, which were not surveyed in 2017 will be surveyed during the 2018 field season.

Terrain stability and hazard mapping was completed for a 64 km^2 area of the KZK project, where mine site and access roads are proposed.

Surface outcrop mapping was conducted across the majority of the KZK property and the Limey claims. More detailed mapping and prospecting was conducted on prospective target areas. These mapping programs investigated the property geology, deformation history, and prospective geology.

A total of 2491 soil samples collected from the southwestern portion of the KZK property were sampled as part of the 2017 soil sampling program. These samples were analyzed on site to characterize the pH conditions of the soil and sent to SGS for multi-element chemical analysis via a combination of aqua-regia digestion with ICP-MS analysis and fire assay for gold.

A total of 32.9 line-km of FLTEM was conducted to the north of the ABM deposit in the area where exploration for a down-dip extension of the ABM deposit and/or stratigraphy occurred. Borehole EM was also conducted in all three exploration drill holes within this area.

Four drill holes, totaling 2451 m, were drilled as a part of an exploration drill program during 2017. Three of the holes targeted the down-dip continuation of the KZK stratigraphy. One drill hole targeted ABM stratigraphy and mineralization within the ABM deposit to characterize the acoustic impedance of these features and determine if seismic reflection profiling is a viable exploration technique at KZK. All core from these drill holes was geotechnically and geologically logged and analyzed with the TerraSpec.

A total of 3629 unique spectral readings from 35 drill holes was collected during the 2017 field program. White mica is the most abundant spectrally identified mineral in the KZK formation due to the felsic nature of the host rocks.

Acoustic impedance testing on drill core was conducted during the 2017 field season. The acoustic impedance characteristics of the lithologies within the KZK formation were determined as part of this program.

Geotechnical work during the 2017 field season included in-pit geotechnical drilling, core recovery and borehole televiewer surveys, infrastructure drilling on proposed mine infrastructure, and soil test pit excavation. The in-pit drilling consisted of nine drill holes targeting proposed open-pit highwalls. In Eight of the nine drill holes, optical and acoustic televiewer surveys were conducted on the open borehole. A total of 35 drill holes were completed during the infrastructure drilling program, using a variety of drilling methods (ODEX, Sonic, and Diamond) to characterize the unconsolidated overburden and bedrock underlying proposed mine infrastructure. The material in many of these drill holes was characterized using Standard Penetration Test (“SPT”) and packer testing. Monitoring installations were put in in many of these drill holes. Fourteen test pits were excavated to characterize the overburden characteristics.

A total of twelve monitoring wells were installed during 2017 in order to characterize groundwater conditions around the proposed mine infrastructure and open-pit.

Ongoing baseline environmental studies continued throughout 2017, including water quality monitoring, wildlife monitoring, wildlife surveys, archaeological surveys, and fish and fish habitat surveys.

Environmental baseline studies are an ongoing part of the KZK work program. The methodology for these studies are summarized in this report but results are not presented, as this is part of an on-going study in the KZK project area. The environmental baseline work has not been filed for assessment.

1.0 INTRODUCTION

This report has been prepared for BMC Minerals LTD ("BMC") in order to document the procedures and results of the 2017 exploration work undertaken on the Kudz Ze Kayah ("KZK") Property and to satisfy assessment reporting requirements for the Yukon Department of Energy, Mines and Resources ("EMR"). Equity Exploration Consultants Ltd. ("Equity") was engaged by BMC to manage the 2017 KZK fieldwork and to prepare this assessment report. The report has been prepared on the basis of personal observations, assessment reports filed with EMR, data and reports supplied by BMC, regional geological publications by EMR, and on the 2017 fieldwork undertaken by Equity or other subcontractors under the direct supervision of the authors. A complete list of references is provided in Appendix A.

Units and abbreviations used in this report are as follows:

Units:

cm	centimetre
C$	Canadian dollar
g	gram
g/t	grams/tonne
ha	hectare
km	kilometre
kg	kilogram
Koz	thousand troy ounces
Kt	thousand tonnes
kV	kilovolt
kW	kilowatt
m	metre
mGal	milligal
mm	millimetre
Mt	million tonnes
Moz	million troy ounces
nT	nanotesla
ppm	part per million
psi	pounds per square inch
"	inch

Abbreviations:

AAS	atomic absorption spectroscopy
AES	atomic emission spectroscopy
Ag	silver
APS	azimuth pointing system
ARD	acid rock drainage
AWG	American wire gauge
As	arsenic
Au	gold
Ba	barium
BC	British Columbia
BI	biotite
Bi	bismuth
CAN	Canada
CB	carbonate
CI	cordierite
CL	chlorite
CP	chalcopyrite
CPUE	Catch per unit effort
CRM	certified reference material

Cu	copper
DDH	diamond drill hole
DFO	Department of Fisheries and Oceans
DGPS	differential global positioning system
DO	dissolved oxygen
EM	electromagnetic
EDTA	ethylenediaminetetraacetic acid
EMIT	Electromagnetic imaging technology
EMR	Yukon Department of Energy, Mines, and Resources
EOH	End of hole
FLTEM	fixed loop transient electromagnetic
Fe	iron
FP	feldspar
GL	galena
GNSS	global navigation satellite system
GPS	global positioning system
Hg	mercury
HLEM	horizontal loop EM
HQ	drill core measuring 63.6 mm in diameter
HQ3	drill core measuring 61.2 mm in diameter
ICP	inductively coupled plasma
ID	identification
IDH	Inverse difference hydrogen
KSW	Kudz Ze Kayah South West
KZK	Kudz Ze Kayah
LiDAR	light detection and ranging
masl	Metres above sea level
Ma	million years
MG	magnetite
MS	mass spectrometry
MU	muscovite
NAD83	North American datum (1983)
NQ3	drill core measuring 45.2 mm in diameter
NSR	net smelter return
NTS	National topographic system
ODEX	overburden drilling - eccentric
Pb	lead
pH	measure of hydrogen ion concentration (acidity)
PLT	point load testing
PO	pyrrhotite
PVC	polyvinyl chloride
PY	pyrite
QA	quality assurance
QC	quality control
QZ	quartz
ROM	Run of mine
RQD	rock quality designation
RRDC	Ross River Dena Council
RTK	real-time kinetic
S	sulphur
Sb	antimony
Se	selenium
SEPA	socio-economic participation agreement

SP	sphalerite
SPT	standard penetration test
SWIR	Short wave infrared
UCS	unconfined compressive strength
UTEM	University of Toronto electromagnetic
UTM	Universal Transverse Mercator
VMS	volcanogenic massive sulphide
VNIR	Visible-near infrared
VTEM	versatile time-domain electromagnetic
VWP	vibrating wire piezometer
WA	Western Australia
WAAS	wide area augmentation system
WAD	weak acid dissociable
wt%	weight percent
XRF	X-ray diffraction
YESAA	Yukon Environmental and Socio-Economic Assessment Act
YESAB	Yukon Environmental and Socio-Economic Assessment Board
YT	Yukon Territory
Zn	zinc

2.0 RELIANCE ON OTHER EXPERTS

In Section 3.0, the authors have relied entirely upon information provided by BMC concerning their purchase agreement with Teck and the extent of any underlying interests and royalties. Also in Section 3.0, the authors have relied entirely on the Geomatics Yukon website for downloaded shapefile tenure data. Also in Section 3.0, the authors have relied entirely upon information provided by BMC regarding their Socio-Economic Participation Agreement ("SEPA") with the Ross River Dena Council. The authors have not relied upon a report, opinion or statement of another expert concerning legal, political, environmental or tax matters relevant to this assessment report.

3.0 PROPERTY DESCRIPTION AND LOCATION

The KZK Property located in the Finlayson Lake area of the Yukon Territory, and consists of 879 quartz claims that cover an area of approximately 16005 hectares (160 km^2) of south-central Yukon (Figure 1). It is centred at 61˚ 31' N latitude and 130˚ 33' W longitude (416000E 6817000N, NAD83, UTM Zone 9) on NTS map sheets 105G/7–10, within the Watson Lake Mining District.

The KZK Property consists of three separate claim blocks. The main claim block, with 864 contiguous claims, covers an area of about 11 km x 20 km and hosts the ABM and GP4F deposits. A single line of claims extends for 14 km north from the main claim block, roughly coincident with the tote road from where it extends to the Robert Campbell highway. The EL 1–8 and Limy 1–9 claim blocks are not contiguous with the KZK claim block, and lie a few kilometres to the west and east of the tote road respectively (Figure 2, Figure 3). All claims were acquired through staking on the ground. The area covered by each claim is determined by the location of the two claim posts on the ground. Mineral claim data is summarized in Appendix C.

All claims are registered in the name of BMC Minerals (No. 1) Ltd. BMC purchased the KZK Property 100% from Teck Resources Limited ("Teck") on 24 January 2015. A 1.2% NSR Royalty is jointly held by Teck and Nyrstar N.V. over the mineral claims ON20-85, ON87-101, ON104-113, ON116-125 ON162-173 and ON197-198. These claims do not cover the known mineral resources. The KZK Property lies within the traditional territory of the Kaska First Nation. Portions of the KZK Property are covered by a SEPA that includes all Kaska First Nations.

Cominco Ltd. and the Ross River Dena Development Corporation entered into the SEPA in March 1995. In April 2004, RRDC and Teck Cominco Ltd. amended and replaced the SEPA to include all Kaska First Nations and not be limited to RRDC. In accordance with the provisions of the SEPA it was assigned to BMC upon purchase of the project and followed the provisions of the SEPA which states that any third party who wishes to have an Interest in the project must first agree in writing to be bound by the existing SEPA.

The existing SEPA provides a framework for BMC and Kaska (as represented by RRDC) to work together to minimize risks of environmental impact and advance social and economic development of Kaska First Nations. BMC and Kaska have agreed to work together to modernize the 2004 SEPA in order to provide improved certainty and better economic outcomes for the benefit of both parties. These discussions have commenced and are expected to be completed prior to Project development commencing.

Mineral claims confer title to hard rock mineral tenure only. Surface rights are held by the Crown, as administered by the Yukon Territory. Trapping rights over the western portion of the KZK Property are held by the Ross River Dena Council under Group Trapline #405, while trapping rights over the rest of the Property are held under Single Holder Trapline #250. KZK overlaps with part of Outfitter Concession #20, held by Yukon Big Game Outfitters. There are several parcels of land in the vicinity of the KZK Property which have been reserved for a future land claim settlement with the Ross River Dena Council. Currently, staking is not permitted within a large area surrounding the KZK Property due to a government moratorium.

Yukon law requires eligible assessment expenditures of C$100/claim/year on the KZK Property to extend tenure ownership past the current expiry dates. Five claim groupings, containing a maximum of 750 contiguous claims, making up the KZK Property were filed with EMR to allow the representation of work done on one or more claims to be distributed to other claims where work was not done.

0 250,000

metres

Scale: 1:6,500,000

BMC Minerals

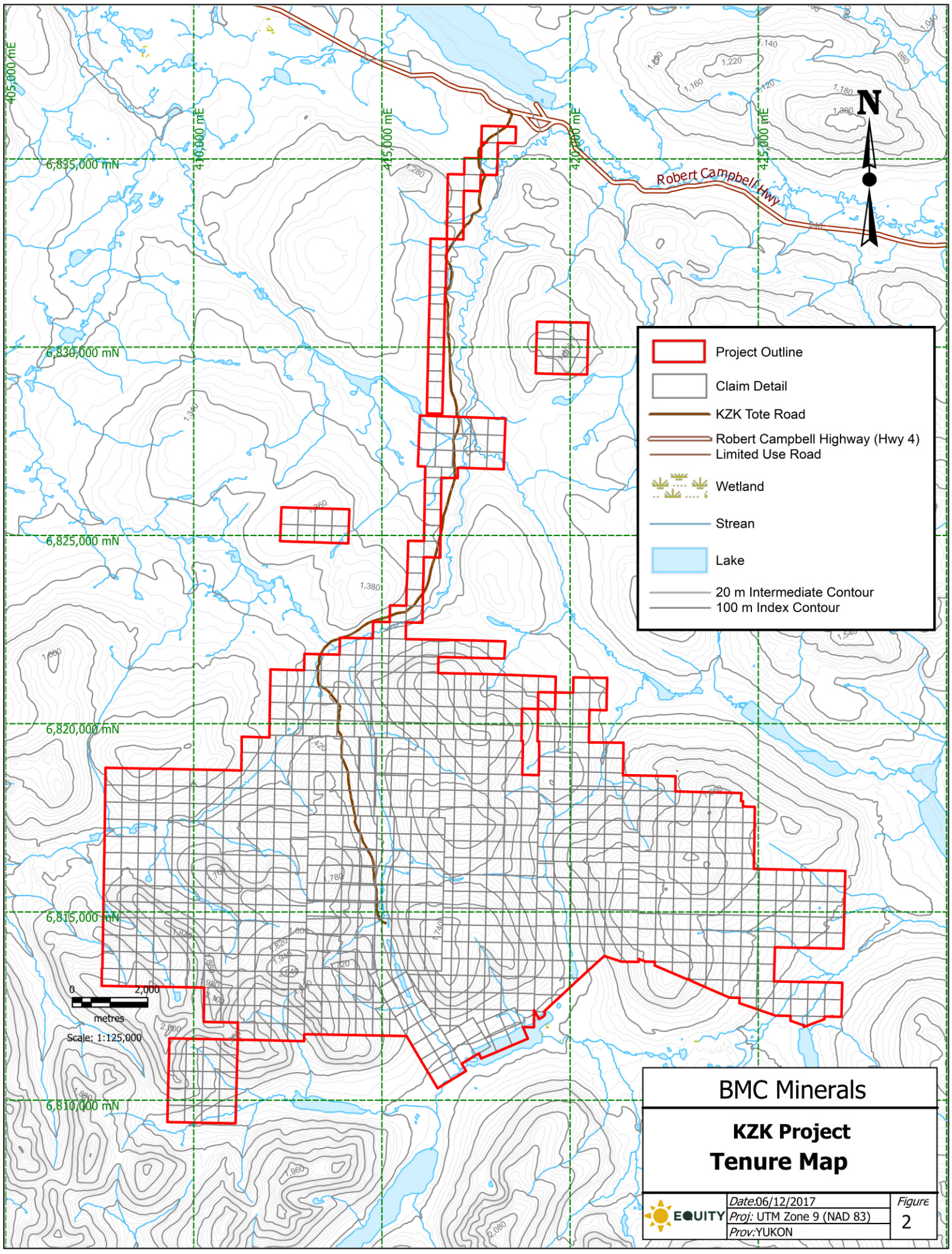
KZK Project

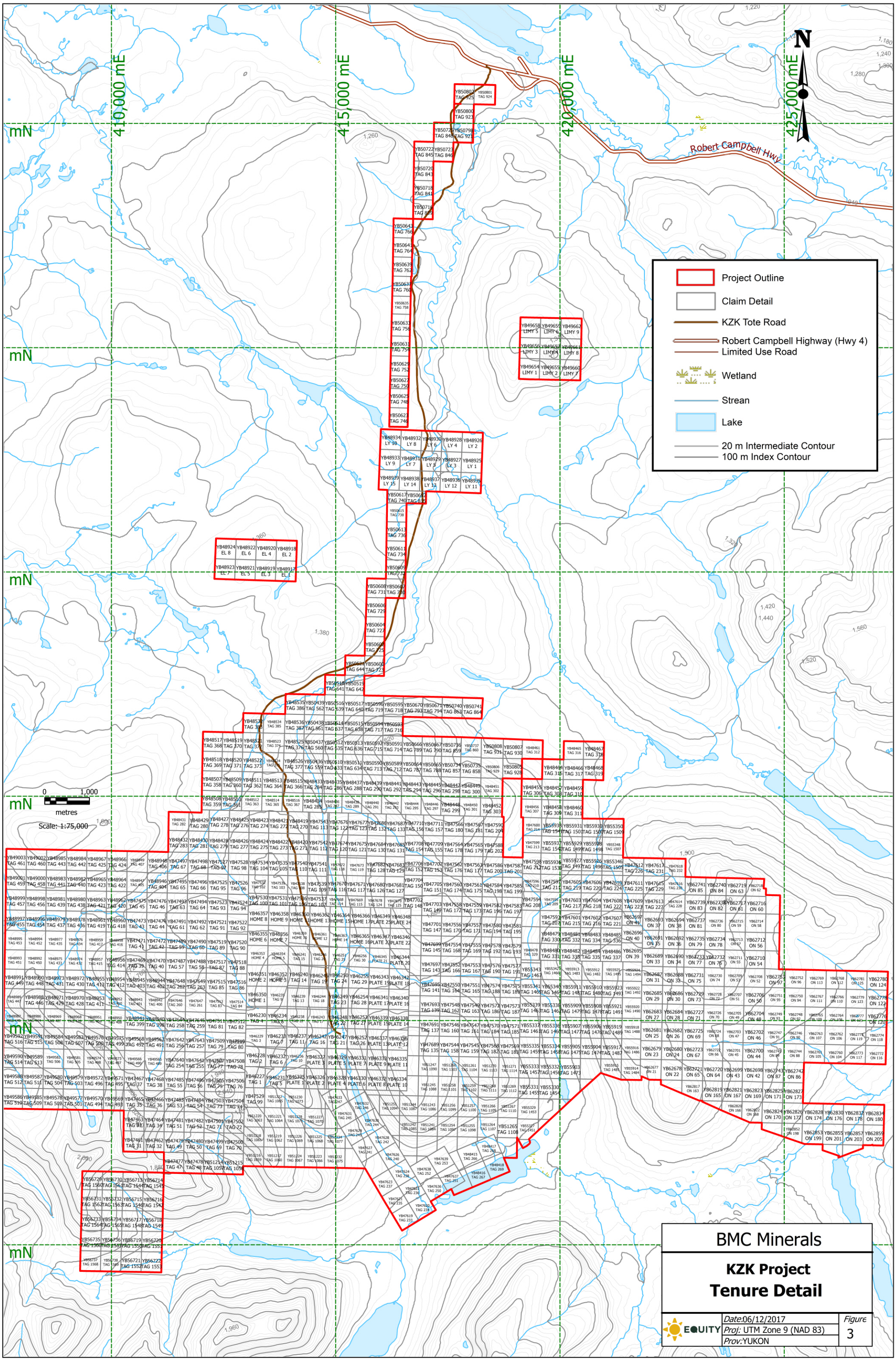
Location Map

EQUITY

Date: 06/12/2017
Proj: UTM Zone 9 (NAD 83)
Prov: YUKON

Figure 1


405,000 mE
410,000 mE
415,000 mE
420,000 mE
425,000 mE
6,835,000 mN
6,830,000 mN
6,825,000 mN
6,820,000 mN
6,815,000 mN
6,810,000 mN
Robert Campbell Hwy
N
Project Outline
Claim Detail
KZK Tote Road
Robert Campbell Highway (Hwy 4)
Limited Use Road
Wetland
Strean
Lake
20 m Intermediate Contour
100 m Index Contour
0
2,000
metres
Scale: 1:125,000
BMC Minerals
KZK Project
Tenure Map
EQUITY
Date:06/12/2017
Proj: UTM Zone 9 (NAD 83)
Prov:YUKON
Figure
2


410,000 mE
415,000 mE
420,000 mE
425,000 mE
mN
mN
mN
mN
N
Robert Campbell Hwy
Project Outline
Claim Detail
KZK Tote Road
Robert Campbell Highway (Hwy 4)
Limited Use Road
Wetland
Strean
Lake
20 m Intermediate Contour
100 m Index Contour
0
1,000
metres
Scale: 1:75,000
BMC Minerals
KZK Project
Tenure Detail
EQUITY
Date:06/12/2017
Proj: UTM Zone 9 (NAD 83)
Prov:YUKON
Figure
3

Exploration programs in the Yukon are divided into Class 1 (grassroots) through Class 4 (advanced), based on the increasing possibility of the permitted activities causing adverse environmental impacts. The thresholds between the classes are based on levels of camp person-days, fuel storage, and extent of exploration activities. In the KZK project area, exploration activities falling under Classes 1 and 2 require that notification is given to EMR. This notification is sent on to First nations and other stakeholders for comment and returned to the Mining recorder for final approval, denial, or modification. An approved plan of operations and the granting of a Quartz Mining Land Use Permit by EMR is necessary prior to undertaking Class 3 and 4 programs. Of these four classes, Classes 2, 3, and 4 require an assessment under YESSA (Yukon Environmental and Socio-Economic Assessment Act) in order to gather input from government agencies, First Nations, other stakeholders, and the general public. The 2017 KZK exploration work was carried out under Class 3 Quartz Mining Land Use Permit LQ00424b, which is valid to June 28th, 2025. Additional permits, leases and licenses used to complete the exploration activities include: Tote Road and Gatehouse Lease 105G07-001, Type B Water Use License QZ16-085, Approval to Use a Sewage Disposal System 4599, Special Waste Permit 41-289, Storage Tank System Permit 2015-22 and Fuel Tank Registration T-1004 and T-1005.

4.0 HUMAN AND PHYSICAL GEOGRAPHY

4.1 Accessibility

The KZK Property is accessible via a 25 km long, gated, single lane gravel tote road that connects to the Robert Campbell Highway (Highway 4) near Finlayson Lake, at a point 135 road-km east of Ross River and 237 road-km northwest of Watson Lake. Fixed-wing aircraft on pontoons can land on Finlayson Lake. Fixed-wing aircraft on wheels can land on a gravel airstrip located at the northwestern end of the lake.

The mixed-surface Robert Campbell Highway connects the Property to Watson Lake on the paved Alaska Highway and Carmacks on the paved Klondike Highway, giving access to Whitehorse and points south (Figure 1). All highways are maintained by the government for use year-round, but maintenance of the tote road is the responsibility of the KZK Project operator. The ABM deposit on the KZK Property is accessible by the tote road for skid-supported drilling, but helicopters are necessary for access to the remainder of the Property, including the GP4F deposit.

4.2 Local Resources and Infrastructure

Ross River, the nearest settlement to the KZK Property, has a population of about 300 and provides some services (groceries, fuel, accommodation and meals) and labour. Whitehorse (population 25000), which is located 260 km west of KZK, offers a full range of services and supplies for mineral exploration and mining, including skilled and unskilled labour, bulk fuel, freight, heavy equipment, groceries, hardware and daily scheduled flights to Vancouver (Figure 1).

The Yukon electrical grid supplies 138 kV electrical power to Faro, located 170 km northwest of the KZK Property and 25 kV electricity to Ross River. Concentrates from the Wolverine Mine, located 25 kilometres to the east of KZK, were trucked 900 kilometres south to port facilities at Stewart, BC prior to the mine's shutdown in early 2015.

4.3 Physiography and Climate

The KZK Property lies in the Pelly Mountains and covers portions of several creeks which ultimately drain north-east into the Finlayson River. The ABM deposit lies near the head of Geona creek, which drains into Finlayson Creek near where the tote road intersects the Robert Campbell Highway. The topography is moderately rugged, and typical of mountainous terrain. Elevations range from 1000 m near Finlayson Lake to over 2000 m at the peaks of the mountains southwest of the ABM deposit. The surface elevations in the ABM and GP4F deposit area range between 1300 and 1500 m.

Below the tree line (1350–1500 m), white and black spruce are the most common tree types. Black spruce is usually dominant in wetter areas whereas white spruce predominates in drier areas. Paper birch, aspen, balsam and lodgepole pine are also present. Alpine fir grows near the tree line. In dense coniferous

stands, feather moss dominates the understory, but in more open areas willows and heath-like shrubs become prevalent.

Sedge or sphagnum tussocks are common in wetlands and under black spruce. Shrub birch and willow occur in the subalpine and extend well above the tree line. The region has intermittent permafrost with moist depressions comprising peat plateaus, patterned fen and bog complexes.

The climate is cold continental with a mean daily summer temperature of 15˚C and a mean daily winter temperature of -25˚C. Precipitation falls fairly evenly throughout the year, predominantly as rain from May through September, and snow for the balance of the year. The mean annual precipitation is 655 mm. Groundwork on the Property is possible from May until October; however, snow may cover parts of higher elevations late into the summer. Drilling can be conducted year-round by using heated water for drilling.

During the last glacial period, ice moved across the eastern part of the area in a northwesterly to westerly direction and extended to approximately 1525 m elevation (Ritson, 2000).

5.0 HISTORY

The following description of pre-2004 exploration history of the KZK Property has been adapted from MacRobbie and Holroyd (2005b).

Little work had been reported in the KZK area prior to 1992, when Cominco Ltd. (Cominco, later Teck-Cominco Ltd., and ultimately, Teck Resources Ltd.), confirmed and expanded an anomalous regional silt sample from earlier work (Hornbrook and Friske, 1988). The following year, prospector A. B. Mawer discovered a well-mineralized, layered sulphide cobble in the anomalous drainage area. This was followed by a reconnaissance UTEM geophysical survey over the projected trace of the suspected host stratigraphy, which outlined an EM conductor. Staking of the first TAG claims over the conductor was accompanied by a ground magnetic survey. Further magnetic and horizontal loop EM and soil surveys completed later that fall defined a compelling drill target (Schultze, 1993).

The target was drilled in April 1994, with the first hole intersecting 22.5 m of massive sulphide in two sections (Schultze, 1995). Three additional holes were drilled in April, and each of them intersected sulphide mineralization over significant widths. The weighted average grade of sulphide in the discovery hole was 0.5% Cu, 2.8% Pb, 10.0% Zn, 278 g/t Ag and 2.9 g/t Au over 22.5 m. The sulphide body was named ABM after the long-time Cominco prospector who made the initial float discovery, A. B. Mawer. In total, 52 diamond drill holes (DDHs) (8485 m) were drilled in 1994 along with ground and airborne geophysical surveys, detailed mapping in the vicinity of the deposit, regional and detailed exploration geochemistry and baseline environmental sampling (Schultze, 1996).

In 1995 an additional 133 DDHs (16178 m), were completed at the ABM deposit and on regional targets. Additional soil sampling, minor geological mapping and ground geophysical surveys were also completed (Schultze, 1996). Engineering and environmental work included geotechnical investigations, bulk metallurgical sampling, construction of the tote road, environmental baseline studies, and archaeological studies (Stacey, 1996). A pre-feasibility engineering study was completed by Cominco in July 1995 (Brown, 1995).

The 1996 program involved regional, 1:20,000 scale geological mapping outside the immediate ABM deposit area, minor line cutting, ground geophysical surveys, and soil geochemistry over the northeastern part of the TAG Property. Diamond drilling (99 m) was completed in the southwest corner of the current KZK Property. Minor structural mapping and core logging were completed at the ABM deposit.

The 1997 program consisted of ground geophysical surveys and diamond drilling. An extensive UTEM and magnetic survey was completed east of the ABM deposit and additional gravity and magnetic surveys were completed over several coincident EM-magnetic anomalies proximal to ABM. A total of 17 drill holes were completed for 3566 m, with seven aimed at expanding the ABM deposit, two testing regional targets, and eight holes testing the Fault Creek target. Drilling at Fault Creek intercepted 6.4 m of Cu-rich sulphide in K97-181, which assayed 5.2% Cu, 1.0% Pb, 5.6% Zn, 141 g/t Ag and 2.4 g/t Au. This poorly defined occurrence represented the first discovery of significant sulphide mineralization south of the Fault Creek Fault (MacRobbie

and Bannister, 1998). By the end of 1997, 168 geological and 15 metallurgical drill holes had been completed in the immediate ABM deposit area, and another 20 drill holes had been completed elsewhere on the Property (including the eight on the Fault Creek target). Environmental studies, metallurgical testing and permitting activities were ongoing.

In 1998 additional line cutting, soil sampling and limited ground geophysical surveys were completed in several areas. A further 11 DDHs (K98-188 to 198; 1755 m) were completed, nine of which tested the GP4F area and two testing a coincident magnetic-EM feature northeast of GP4F (MacRobbie and Holroyd, 1999). The most significant result was the discovery of the GP4F deposit located 5 km southeast of ABM, which was estimated by Cominco to comprise a (non 43-101 compliant) resource of 1.5 Mt grading 0.1% Cu, 3.1% Pb, 6.4% Zn, 89.7 g/t Ag and 2.0 g/t Au (MacRobbie and Holroyd, 2000).

In 1999 a small geophysical program was completed, including an in-loop UTEM survey HLEM survey, and magnetic survey over the GP4F deposit (MacRobbie and Holroyd, 2000).

In 2000 the KZK Property was optioned to Expatriate Resources Ltd. (“Expatriate”) (Schultze, 2001). Expatriate carried out ground geophysical surveys (UTEM, magnetics) in the area south of the ABM deposit, extending their survey south of the Fault Creek target (Klein, 2000). Expatriate allowed the option to lapse in late 2001.

In 2004 Teck optioned the R-15 block, immediately south of the KZK Property, from Kaska Minerals Corporation, an entity controlled by the Kaska First Nation in Ross River. That summer, Teck discovered the R-15 deposit, through mapping, ground geophysical (UTEM and magnetic) surveying and drilling (7 DDHs, 1481 m) on the R-15 block. The program extended north, with 6.8 line-km of UTEM, 0.4 line-km of magnetics and one drill hole (K04-199; 246 m) on the KZK Property (MacRobbie and Holroyd, 2005a).

The R-15 option was subsequently terminated, and no further exploration was done on the KZK Property until 2015, after BMC purchased it from Teck. Following approval of exploration permits in July 2015 BMC began an ambitious exploration program that included building exploration infrastructure, data compilation, re-logging historical drill core, LiDAR and ground-based differential GPS surveys, geophysics (airborne VTEM, ground-based gravity and borehole EM), resource and exploration drilling, metallurgical drilling, geotechnical drilling, hydrogeological drilling and environmental baseline studies (Hughes et al., 2016). The most significant result of this program was the discovery of the Krakatoa Zone immediately southeast of the ABM Zone, which (at the time) added 5.1 Mt (2.1 Mt indicated, 3.0 Mt inferred) to the ABM deposit resource inventory (Green et al., 2016).

The 2016 BMC exploration program continued much of the work that was begun in 2015. Historical core logging continued and additional LiDAR, DGPS, and geophysical surveys (airborne magnetics and VTEM, borehole EM) were undertaken. Resource and exploration drilling, metallurgical drilling, geotechnical investigations, hydrological investigations, and environmental baseline studies were continued.

Several mineral resource estimates have been completed for the ABM and GP4F deposits by Cominco and Teck (Cominco, 1995; Teck-Cominco, 2007), and also by CSA Global Pty Ltd (“CSA”) on behalf of BMC (Green, 2015a, b; Green et al., 2016). The most recent estimate (Table 2) was completed by CSA in November 2016, (BMC Minerals Ltd., 2016) and incorporates all of the data up to the end of the 2016 exploration program.

Table 2: Mineral resource estimates for the ABM and GP4F deposits

Deposit	Date	Category	Mt	Cu (wt%)	Pb (wt%)	Zn (wt%)	Au (g/t)	Ag (g/t)	Reference
ABM	Nov-94	Non-compliant	14.0	0.9	1.3	5.6	1.2	125	from Green, 2016
	Nov-94	Non-compliant	13.9	1.0	1.3	5.5	1.2	127	from Green, 2016
	Apr-95	Non-compliant	13.7	1.0	1.3	5.5	1.2	128	Cominco, 1995
	Jun-95	Non-compliant	11.4	1.0	1.6	6.4	1.5	143	Cominco, 1995
	Dec-07	Inferred	12.8	0.8	1.7	5.9	1.4	N/A	Teck-Cominco, 2007
	Apr-15	Inferred	13.7	0.9	1.6	6.1	1.4	140	Green, 2015a
	Jan-16	Indicated	16.7	0.9	1.8	6.2	1.4	144	Green, 2016
		Inferred	3.4	0.7	2.8	7.1	1.5	191	
	Nov-16	Indicated	18.3	0.9	1.9	6.3	1.4	148	BMC Minerals, 2016
		Inferred	0.9	1.1	1.6	6.9	1.1	138	
GP4F	Jan-00	Non-compliant	1.5	0.1	3.1	6.4	2.0	90	MacRobbie and Holroyd, 2000
	Jul-15	Inferred	1.7	0.2	2.6	6.1	1.0	76	Green, 2015b
	Nov-16	Indicated	1.0	0.2	2.7	5.7	1.0	83	BMC Minerals, 2016
		Inferred	0.7	0.2	2.4	4.8	2.0	59	

6.0 2017 WORK PROGRAM DESIGN

Work at KZK during 2017 comprised a multifaceted geological and engineering program that included construction and rehabilitation of new and historical exploration trails, terrain surveying, geological mapping, soil sampling, ground and downhole geophysics (EM), exploration and geotechnical drilling (diamond, ODEX, and Sonic drilling), test pitting, borehole optical and acoustic televiewer surveying, geochemical assay, hyperspectral imaging of drill core, and environmental baseline studies

6.1 Earthworks

Construction work related to the 2017 drilling program included building of new drill sites and trails, reclamation of drill pads and trails following their last use, and the construction of a temporary building for core display.

Construction and reclamation earthworks were completed by Tim Moon Construction Ltd, of Ross River (referred to here as “heavy machine operators”), and René Darveau (light excavator operator). Heavy machinery used included a Hitachi 270 and Link-Belt 290 excavators, Caterpillar D6R and D7 bulldozers, and a Western Star dump truck. A CanDig CD21 light excavator was used in locations without road access.

Trails to be constructed were laid out by Equity staff and/or machine operators, with an emphasis on avoiding tree stands (primarily spruce). A bulldozer and/or excavator were used to clear the trail, after which the excavator would cut ditches and place bars/culverts across the trail to guide runoff. Where possible, soft spots were filled with till material sourced from the 18-km mark on the tote road.

6.2 Terrain Surveys

Terrain surveys included ground-based differential GPS (DGPS) surveys and terrain hazard mapping. Contractors, procedures and methods used for these programs are summarized below.

6.2.1 DGPS survey

Ground-based DGPS surveys were completed by Challenger Geomatics Ltd of Whitehorse, Yukon (“Challenger”), over the course of the 2017 field program. All surveying was completed in NAD83 UTM Zone 9 with Leica Real Time Kinematic (RTK) DGPS survey equipment and Leica Viva Global Navigation Satellite Systems (GNSS). Radio base stations were set up in proximity to the survey sites providing RTK corrections when radio contact was possible.

Two surveys were conducted, a survey of drill hole collars (See section 6.6.1) and a topographic survey of the material stockpile sites and open pit area.

All surveyed coordinates for the 2017 drill holes are included in Appendix D.

6.2.2 Terrain hazard mapping

Terrain stability and hazard mapping was undertaken by Core Geoscience Services Ltd. (Coregeo) with the objective of characterizing the types and distribution of terrain hazards within the proposed mine site area, and along the access road corridor. Mapping and assessment work was completed in accordance with the hazard assessment guidelines of Yukon Environmental and Socio-economic Assessment Board ("YESAB").

The program's objectives were to delineate and characterize the distinct terrain units and geomorphological processes within the study area; identify potential hazards posed by the environment on the project, and by the project on the environment (terrain stability effects); and to evaluate risks to the project infrastructure considering the implications of climate change.

Initial terrain stability and hazard mapping methodology consisted of background review and consultation with BMC, review of maps, terrain analysis reports, and other pertinent data sources. Field investigations were undertaken by two of Coregeo's staff consisting of a senior geomorphologist, and senior environmental geoscientist under favourable field conditions. A comprehensive review of the methods used in this survey is available in Appendix E, Terrain and Hazard Mapping (McKillop et al., 2017).

6.3 Geological Outcrop Mapping

The 2017 geological mapping program on the KZK Property was subdivided into three programs; (1) phase I property-scale mapping, (2) phase II follow up on a series of geological-geophysical-geochemical targets, and (3) limestone prospecting on the Limy claim block, which lies east of the KZK Property.

6.3.1 Mapping procedures

Phase I geological mapping was done by a two- to four-person crew between 22 July and 16 August 2017, with daily helicopter set-outs and pick-ups along pre-planned traverse routes. Mapping was conducted on ruggedized, GPS-enabled Panasonic Toughbook computers using QGIS software. Structural data was collected using a combination of Silva and Brunton compasses, and the Fieldmove Clino iPhone application. Mapping data was compiled daily into *.TAB files using MapInfo on a central computer at the KZK Camp. Interpretation and the final property geology map was completed using a combination of MapInfo (2D) and Micromine (3D). Geological data for the property map was aggregated from 2017 and historical outcrop mapping, drill hole logs, and geophysical data, to constrain our interpretation of surface geology, presented in Appendix F. Field notes from the traverses that informed this mapping are available in Appendix G.

The Phase II mapping program involved detailed outcrop and subcrop mapping on four high priority target areas that were initially referred to as Fault Creek, GP4F, Tour Cirque and GP3L (Figure 22) (Voordouw, 2017). Mappers were set out by helicopter and then completed traverses through each of these areas. Mapping was done on ruggedized Panasonic Toughbook computers equipped with a GPS that has an accuracy of approximately ±5 m. Mapping data was entered into QGIS software where it was collected as polygons (outcrops), lines (structure) and points (alteration, mineralization, rock samples, points of interest). Codes used for geological features (e.g. lithology, structure, alteration, mineralization) are the same as those used for the KZK drilling program (Hughes and Baknes, 2015b).

The Limy claims are considered part of the Kudz Ze Kayah (KZK) project and comprise a satellite claim block located ~15 km north of BMC's ABM project, east of the tote road. Rocks comprising the claims were previously mapped as Lower Mississippian mafic volcaniclastic rocks and Upper Mississippian to Mid-Pennsylvanian bioclastic limestone of the Nasina Assemblage (e.g. Murphy et al., 2001).

A one-day detailed mapping exercise in the Limy claims was completed by two geologists to assess the following objectives:

- Map the rocks and possible contacts with other rock units in the existing claims and determine any textural heterogeneities in the limestone unit;
- Collect representative grab samples to be submitted for whole rock geochemical analysis.

6.3.2 Sampling and Geochemical assay

Rock samples were collected from mineralized and/or altered outcrops, but also from unmineralized and unaltered exposures to help establish consistency between geological mappers. Sample descriptions are available in Appendix H. Those samples designated for geochemical assay were first analysed by hyperspectral imaging (see Section 6.9 Hyperspectral Imaging Study, Appendix J), then placed in a polyethylene bag with a unique sample tag and packed, together with 6-7 other rock samples, into rice bags for shipment to the lab. Each of these rice bags was sealed with a uniquely numbered security tag and was transported to SGS Mineral Services Geochemistry Vancouver ("SGS") in Burnaby, BC, through a series of transport companies, including Tu-Lidlini Petroleum (KZK Camp → Ross River), Small's Expediting (Ross River → Whitehorse) and Canadian Freightways (Whitehorse → Burnaby).

Rock samples sent to SGS were analysed for whole rock oxides and trace elements. SGS Vancouver is an ISO 9001:2008 certified laboratory (accredited laboratory No. 744) that also conforms to the requirements of CAN-P-1579, CAN-P-1578 and CAN-P-4E (ISO/IEC 17025-2005) for the analytical methods used on the 2017 KZK Project. Accreditation details were provided in the 2015 QA/QC review (Voordouw, 2016a). Rock sample certificates of analysis are presented in Appendix I. Methods of analysis are presented in Table 3 below.

Table 3: Analyses performed on categories of sample submitted for analysis

Sample Type	Prep	Elements Analysed	Analysis
Core Assay	Weighed, dried and crushed to 75% passing 2 mm, with a 250 g split pulverized to 85% passing 75 microns	Au	High-temperature cupellation / aqua-regia digest / atomic absorption spectroscopy
		Ba, Cu, Fe, Pb, S, Zn	Sodium peroxide fusion / inductively-coupled plasma-atomic emission spectroscopy
		As, Sb, Bi, Hg, Se	Aqua-regia digestion / inductively-coupled plasma-atomic emission spectroscopy
		As, Sb, Bi, Hg, Se	Aqua-regia digestion / inductively-coupled plasma-mass spectrometry
		Ag	Aqua-regia digestion / atomic absorption spectroscopy
Soil	Weighed	Au	High-temperature cupellation / aqua-regia digest / atomic absorption spectroscopy
		Multi-element	Aqua-regia digestion / inductively-coupled plasma-mass spectrometry
		H^+	Determination of the pH of the soil-water paste
Rock	Weighed, dried and crushed to 75% passing 2 mm, with a 250 g split pulverized to 85% passing 75 microns	Au	High-temperature cupellation / aqua-regia digest / atomic absorption spectroscopy
		Major/Minor Oxides	Borate fusion / X-ray fluorescence spectroscopy
		Multi-element	Aqua-regia digestion / inductively-coupled plasma-mass spectrometry
Limestone	Weighed, dried and crushed to 75% passing 2 mm, with a 250 g split pulverized to 85% passing 75 microns	Major/Minor Oxides	Borate fusion / X-ray fluorescence spectroscopy
		Multi-element	Four-acid digest / inductively-coupled plasma-atomic emission spectroscopy
		Multi-element	Four-acid digestion / inductively-coupled plasma-mass spectrometry
Whole Rock	Weighed, dried and crushed to 75% passing 2 mm, with a 250 g split pulverized to 85% passing 75 microns	Major/Minor Oxides	Borate fusion / X-ray fluorescence spectroscopy
		Multi-element	Four-acid digestion / inductively-coupled plasma-mass spectrometry
		Multi-element	Four-acid digest / inductively-coupled plasma-atomic emission spectroscopy

6.4 Soil Sampling

The 2017 exploration program included the collection of 2394 soils samples from the "KZK southwest" ("KSW") grid, along with 97 from orientation lines over the ABM and GP4F deposits, and another 118 for QA/QC (Table 4). Methods for soil sampling, pH measurements and geochemical analysis are described below.

Table 4: Overview of samples collected as part of 2017 KZK soil sampling program

Sample Type	Grid	Line km	Samples	Sample/line-km	Assays	Comments
Exploration soil	KSW Grid	245	2394	10	2393	One sample lost
Orientation soil	ABM Central	1.80	51	28	51	
	ABM West	0.59	16	27	16	
	GP4F	0.96	30	31	30	
QA/QC	Blanks	n/a	44	n/a	44	
	Field Duplicates	n/a	74	n/a	74	
Total			2609		2608	

6.4.1 Field sampling

The KSW grid covers approximately 4 x 6 km^2 at 100 x 100 m sample spacing, extending from just west of the ABM deposit to the western and southern boundaries of the Property (Figure 4). Orientation lines were run north-south and sampled at 25 or 50 m spacing. One of these lines crosses both the ABM and Krakatoa zones of the ABM deposit, the 2nd crosses the western end of the ABM Zone (Figure 5) and the 3rd line runs across the GP4F deposit (Figure 6).

The soil sampling crew averaged four workers for most of the program. Samplers exposed the contact between the A- and B-horizons, and sampled silty B below the base of A. Each soil sampler had their own Garmin GPSmap® 62 unit with the planned sample coordinates, which were uploaded with GPS TrackMaker® software. Field data was captured on Rite-In-The-Rain® sheets and then transferred daily into an Excel spreadsheet, along with the uploaded GPS sampling coordinates. Data captured at each sampling station includes the soil horizon, colour, texture and moisture content, as well as the station ID, sample depth and vegetation. Each station ID matches the sample ID corresponding to the bar-coded sample tags provided by SGS. The soil horizons were classified as either Ah, B or C, with instructions to collect, in preferential order, B then C then A. Colour codes were restricted to orange, red brown, yellow brown, brown, grey, black. Texture was described by allocating proportions of organic, clay, silt, sand and pebbles to total 100%. Moisture content was captured as moist or wet. The sampling depth was measured (in cm) from the ground surface to the base of the sampling pit. Vegetation was recorded as one of either alpine, brush, swamp or talus. All soil sampling field notes are provided in Appendix K. Samples collected for QA/QC monitoring included field duplicates and blanks. Field duplicates comprise a second soil sample taken from the same general sampling site, but from its own pit. One of these daughter samples was taken every 20 to 40 samples for a total of 74 field duplicates. Blank samples consist of silica powder that was inserted at a rate of 1 for every 40 samples, for a total of 44. These 118 QA/QC samples comprise 4.5% of geochemical analyses.

6.4.1 Soil pH measurements

The pH of each soil sample was measured at KZK Camp. For each sample, 15 g of 180 mesh sieved soil sample was agitated with 40 mL of de-ionized water. This soil-water paste was then analyzed with a handheld Ultrapen™ PT2 pH and temperature pen. After the first analysis, the mixture was acidified with a single drop of 10% HCl, stirred and re-analyzed with the PT2. Captured data for each soil sample ID included pH original (i.e. before acid), pH with acid, temperature, date and the pH meter used, as some measurements were also done with an Oakton pH meter. Glassware and pH meters were rinsed with de-ionized water between each analysis.

The pH meters were calibrated at the start of each work day using a set of calibration solutions for pH: 4, 7 and 10. In addition, measurements were made on a “gravel pit standard” that was collected from road improvement material stored at KZK Camp.

The original and acidified pH measurements were used to calculate the inverse difference hydrogen (IDH) factor (Smee, 2013) for each sample:

$$IDH = 1/(\text{acidified } H^+ - \text{original } H^+)$$

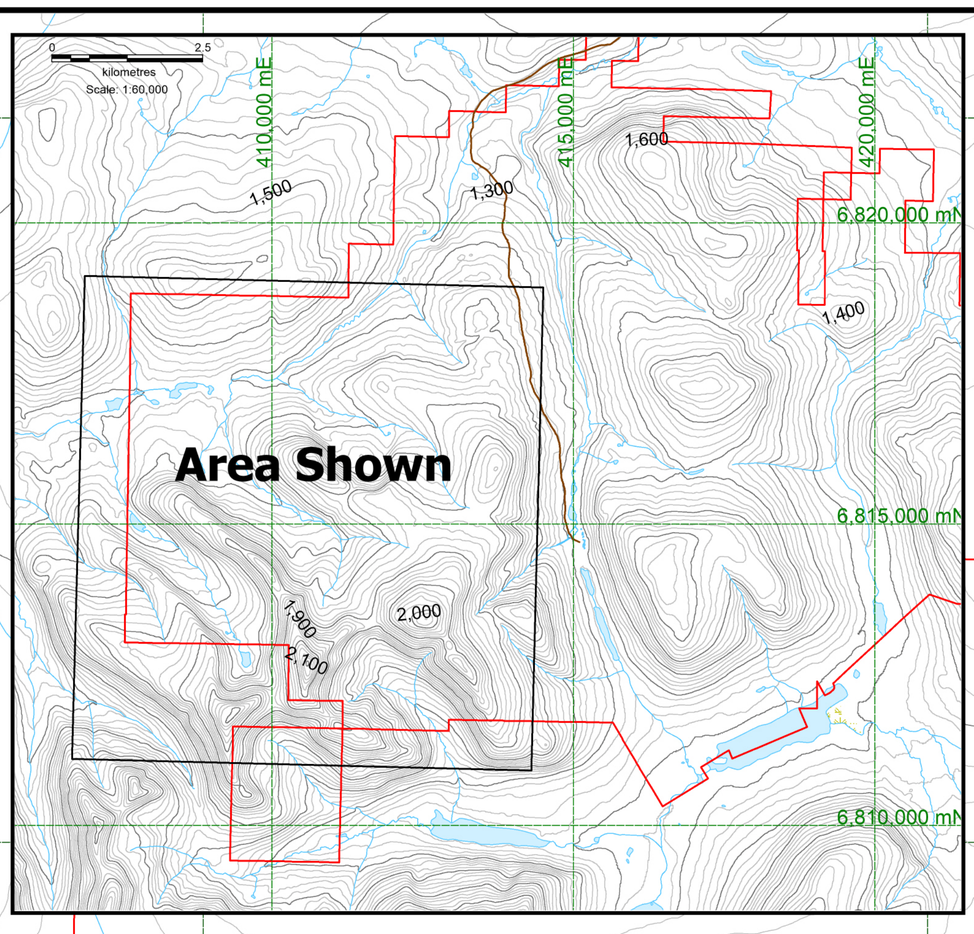
where $H^+ = 10^{-pH}$. The IDH factor helps to outline the calcite peak on either side of a H+ (or low pH) anomaly, which is the definitive signal for a body undergoing oxidation (Smee, 2013). All pH sampling data is provided in Appendix L.

A subset of 92 soil samples were also analyzed by SGS for pH as a QA/QC check of the onsite pH analyses. The SGS method (GE_ISE15V) also involves measurement on a soil-water paste.

6.4.2 Soil sample geochemical assay

After pH analyses were done, groups of 5-10 soil Kraft bags were placed into a polyethylene bag, taped up and placed with 4-5 other polyethylene bags into a single rice bag for shipment. Each rice bag was sealed with a uniquely numbered security tag and then shipped to Whitehorse, YT, via Ross River-based Tu-Lidlini Petroleum and Whitehorse-based Small’s Expediting, and then to SGS Canada in Burnaby, BC, with Canadian Freightways.

At the SGS lab in Burnaby, BC, soil samples were received, logged in, oven dried at 60°C and then sieved at 80 mesh (180µm). Samples were digested in aqua regia and then analysed by ICP-MS for 36 elements (SGS code GE_IMS14B). In addition, gold was analyzed by fire assay fusion of a 30 g aliquot followed by atomic absorption spectroscopy (AAS) analysis (SGS code GE_FAA313). All soil sample certificates of assay and QA/QC reports are presented in Appendices M and N, respectively.



- Soil Sample Location
- Property Boundary
- Tote Road
- Stream
- Lake
- 20m Contour
- 100m Contour

BMC Minerals

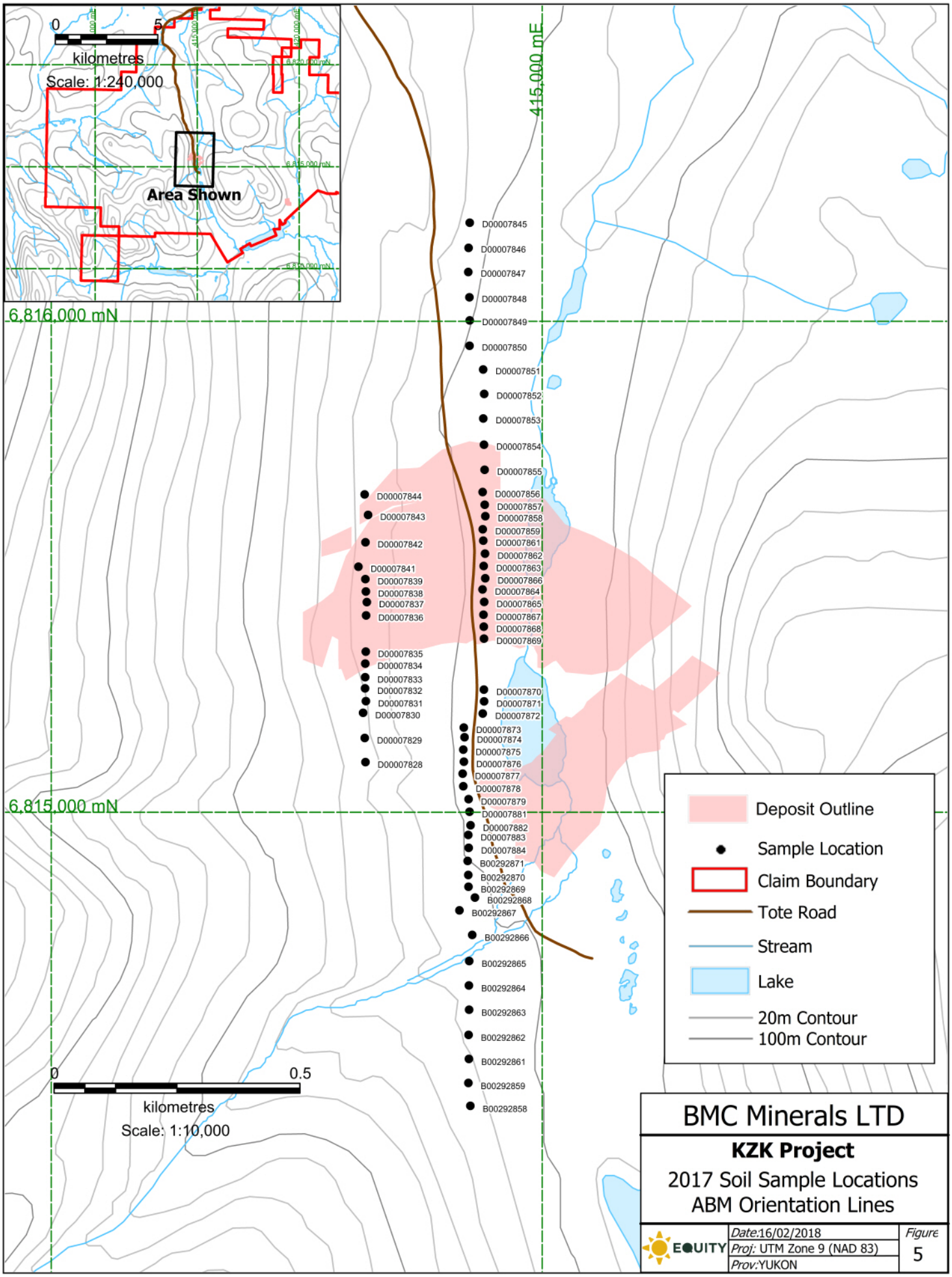
KZK Project

2017 Soil Sample Locations
KZK South West Grid

EQUITY

Date:	02/16/2018
Proj:	UTM Zone 9 (NAD 83)
Prov:	YUKON

Figure 4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Sample Location
Claim Boundary
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Stream
Lake
20m Contour
100m Contour
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kilometres
Scale: 1:10,000
BMC Minerals LTD
KZK Project
2017 Soil Sample Locations
ABM Orientation Lines
EQUITY
Date:16/02/2018
Proj: UTM Zone 9 (NAD 83)
Prov:YUKON
Figure
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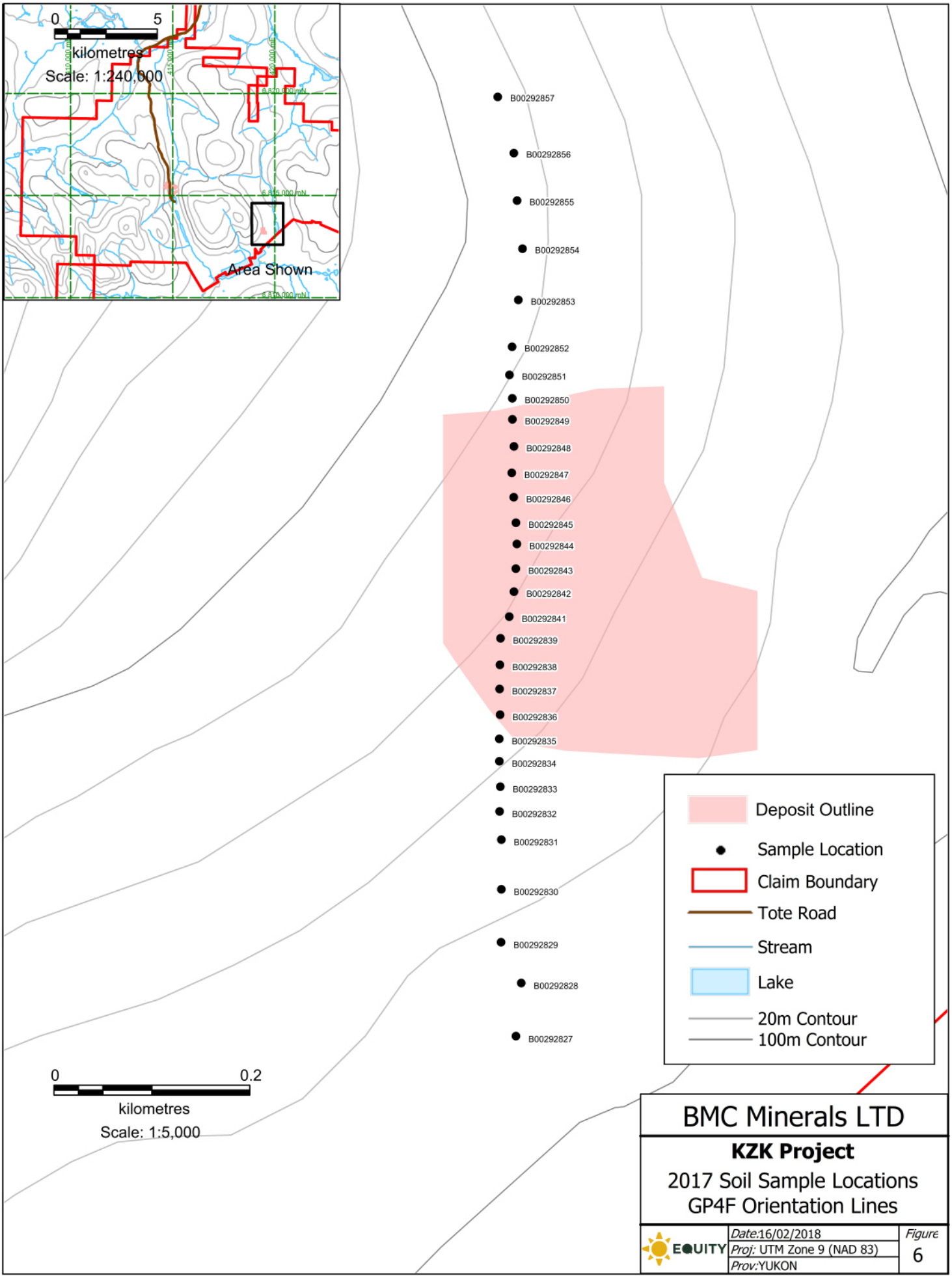
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B00292828
B00292827
Deposit Outline
Sample Location
Claim Boundary
Tote Road
Stream
Lake
20m Contour
100m Contour
0
0.2
kilometres
Scale: 1:5,000
BMC Minerals LTD
KZK Project
2017 Soil Sample Locations
GP4F Orientation Lines
EQUITY
Date:16/02/2018
Proj: UTM Zone 9 (NAD 83)
Prov:YUKON
Figure
6

6.5 Geophysical Surveys

Geophysical work done in 2017 includes a surface EM survey, a borehole EM survey, and an acoustic impedance testing program. The EM surveys were conducted as part of a target generation project north of the ABM deposit while the acoustic impedance testing program was performed to determine the effectiveness of seismic reflection profiling as an exploration tool at the KZK property.

6.5.1 Surface EM

A Fixed Loop Transient Electro-Magnetic (FLTEM) survey was conducted at the KZK property between 2 September and 31 September 2017. The purpose of this survey was to target potential mineralization postulated to exist north of and down dip from the ABM deposit.

The survey was conducted by Discovery Geophysics International and consisted of two adjacent but slightly offset loops (Loop 1 and Loop 2) (Table 5), both of which had dimensions of 2000 m x 1500 m. Loop 1 was accompanied by 10 survey lines, most of which were 2.20 km in length, but which ranged from 1.90 km to 3.00 km, for a total survey length of 22.40 line-km. Loop 2 was accompanied by 7 survey lines, all of which were 2.50 km long for a total survey length of 17.50 line-km. All of the survey lines were oriented north-south across the long axis of the loops with stations spaced 100 m apart, with 50 m infill stations placed at the operator's discretion. In order to help merge the data between the two loops, a 1 km section of overlap was included on lines that were common to both loops. Accounting for the overlap, the total survey length was therefore 32.90 line-km across both loops and encompassed a total of 373 reading stations (268 on Loop 1, 182 on Loop 2, 77 overlap). Figure 7 shows a map of the EM Loops and survey lines while Table 5 summarizes the lengths and number of stations on each survey line.

Table 5: FLTEM survey line lengths and number of stations

	Loop 1		Loop 2		Overlap		Total	
Line	Line-km	Stations	Line-km	Stations	Line-km	Stations	Line-km	Stations
4050E	2.20	23	2.5	26	1.0	11	3.70	38
4350E	2.20	23	2.5	26	1.0	11	3.70	38
4650E	2.10	26	2.5	26	1.0	11	3.60	41
4750E	3.00	33	0	0	0	0	3.00	33
4950E	2.20	30	2.5	26	1.0	11	3.70	45
5250E	2.20	27	2.5	26	1.0	11	3.70	42
5550E	2.20	27	2.5	26	1.0	11	3.70	45
5850E	2.20	31	2.5	26	1.0	11	3.70	46
6150E	2.20	28	0	0	0	0	2.20	28
6450E	1.90	20	0	0	0	0	1.90	20
Total	22.40	271	17.50	182	7.00	77	32.90	376

The instrument for this survey was an Electromagnetic Imaging Technology (EMIT) SMART Fluxgate sensor coupled with an EMIT SMARTem24 Receiver unit and involved measurements of the X, Y, and Z components of the secondary EM field (B-field). The current source for the EM loops was provided by a Phoenix TXU-30 30kW transmitter, upgraded from a 20kW transmitter in order to produce greater depth projections of the EM field. Power for the transmitter was supplied by a Subaru RGV13100T (13kW) 3-phase generator and the loop wire consisted of 10 AWG EM tracer wire. The base frequency for Loop 1 was 5 Hz and involved 29 time-gates ranging from 0.0995 to 42.68 ms after shut-off, except for line 4750E, which had a base frequency of 1 Hz and involved 36 time-gates ranging from 0.0995 to 194.0 ms after shut-off. Loop 2 had a base frequency of 2.5 Hz and included 32 time-gates ranging from 0.0995 to 81.67 ms after shut-off. The current in both loops was 20 A and the turn-off time was 700 µs.

QA/QC of the FLTEM survey data was performed on-site by Discovery International Geophysics' personnel. The full TEM waveform was recorded at a high sample rate for each individual stack (256 stacks per measurement) to allow for post-survey processing such as stacking and windowing of the secondary TEM

data. Post-survey processing was carried out using the EMIT SMARTem24 software. This software was also used to quality-check the readings at each station by examining the secondary decay plots for each component. Readings with decays that were either not smoothly varying with time, or that were significantly outside the range of the majority of decays at that station, were deleted from the stack. The final edited data was written to a final EMIT format (*.TEM) data file for each line surveyed. These *.TEM data files were then imported in to another EMIT processing program (Maxwell) which plotted and modelled the EM data. The final profile plots for each line, as well as additional information regarding the survey parameters, are included in the Discovery International Geophysics Logistics Report attached in Appendix O.

6.5.2 Borehole EM (BHEM)

Discovery International Geophysics completed a Borehole EM (BHEM) survey at the KZK property in 2017. This survey was conducted in tandem with the surface FLTEM survey and was designed to target the same postulated northern extension of the ABM deposit between 2 September and 31 September 2017.

Three drill holes (K17-447, K17-448, K17-449) were drilled in the northern extension target area in order to test for potential down dip mineralization. The BHEM survey was conducted on these holes to detect off-hole EM conductors in the area. The three holes were drilled approximately perpendicular to local stratigraphy and ranged in length from 452.00 m to 1017.00 m, for a total surveyed length of approximately 2,175 m. Two of the BHEM holes (K17-447, K17-448) used Loop 1. The third BHEM survey (K17-449) used FLTEM transmitter Loop 3. A map of the drill hole locations in relation to the FLTEM survey loops is included in Figure 7.

The BHEM surveys were all conducted using the same transmitter, receiver, and generator as the surface EM survey (see previous section). Measurements were captured using an EMIT DigiAtlantis borehole probe which measured all three components of the primary EM (B) field; A (axial down hole), U (orthogonal to A parallel to the azimuth of the drill hole), and V (orthogonal to A and U). The probe was lowered through the hole using a Discovery Winch Frame and borehole cable reel. Measurements were made at 20 m intervals throughout the hole with additional infill readings made at 5 and 10 m increments at the operator's discretion. A base frequency of 5 Hz coupled with 29 time-gates ranging from 0.0995 to 42.683 ms was used for each survey. The transmitter current and turn-off time however varied from 10.0 to 28.0 A and 700 to 1200 µs respectively. Similar to the surface EM survey, QA/QC of the BHEM survey data was performed on site by Discovery International Geophysics' personnel and data processing, plotting, and modelling was completed using EMIT Maxwell software. A summary of the BHEM survey parameters are presented in Table 6 and additional information as well as the final profile plots for each hole are included in the contractor report attached in Appendix O.

Table 6: BHEM survey parameters

Hole ID	Loop	Frequency (Hz)	Loop Dimensions (m)	Current (A)	Turn-Off Time (µs)	Hole Length (m)	Surveyed Interval (m)	Total Surveyed (m)
K17-447	1	5.0	2000 x 1500	10.0 - 20.0	700 - 1200	452.00	20 - 445	425.00
K17-448	1	5.0	2000 x 1500	10.0 - 20.0	700 - 1200	1017.00	20 - 1000	980.00
K17-449	3	5.0	900 x 900	28.0	700	800.00	20 - 790	770.00

6.5.3 Acoustic impedance study

An acoustic impedance (AI) testing program was carried out on drill core from 9 KZK drill holes during 2017. The program was managed by HiSeis Pty Ltd., a Perth-based seismic services company. The purpose of the program was to test their seismic reflection method for sub-surface exploration and modelling at KZK. The program was the first phase of a proposed three-phase approach to complete a 3D seismic survey. HiSeis personnel conducted acoustic impedance testing and trained Equity staff on the procedures, between 21 July and 25 July 2017. Majority of the acoustic impedance testing was performed during this time, with additional supplementary data collected during the remainder of the drill program.

Acoustic impedance measurements were performed at approximately 1 m intervals in drill core, where core pieces were greater than 15 cm. Velocity measurements were conducted using a UK1401 Ultrasonic

Tester on dry consolidated core over 15 cm in length. 3 velocity measurements, 15 seconds each, were conducted in a single sample interval and averaged. The density of the sample was measured, using the same method described in section 6.6.2. HiSeis processed this data along with notes on the geology to determine the acoustic impedances of certain lithological and stratigraphic units. A full description of the methods used during the 2017 program can be found in Appendix P.

6.6 Drilling

The 2017 drilling program included exploration drilling in and north of the ABM Zone (N = 4), infill drilling at the ABM Zone (N = 1), drilling for in-pit geotechnical investigations (N = 9), and infrastructure related geotechnical drilling (N = 35), for a total of 48 drill holes and 4928.7 m (Table 7, Figure 8).

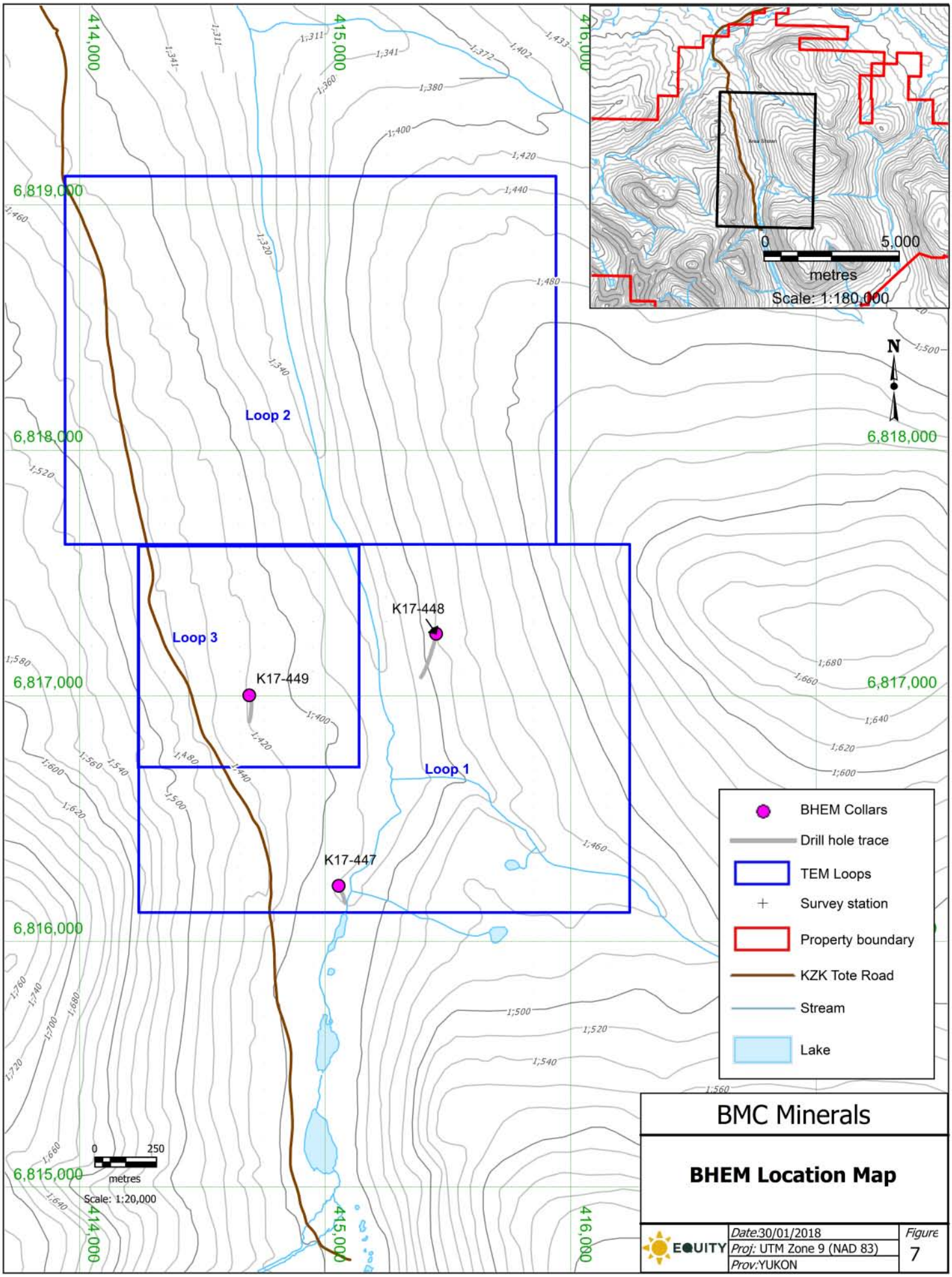
Table 7: Summary of 2017 drilling

Program	Purpose	DHs	Metres	Comments
Exploration	Exploration and Downhole Geophysics	4	2451	
In-pit Geotechnical	Geotechnical investigation, hydraulic conductivity testing, televiewer	9	1540	
Infrastructure Geotechnical	Geotechnical Investigation, water monitoring installation	35	937.7	Includes one abandoned hole
2017 Total		48	4928.7	

*Includes dual purpose infill and metallurgical drill holes

New Age Drilling Solutions (“New Age”) and Midnight Sun Drilling Inc. (“Midnight Sun”) completed the 2017 KZK drilling program. New Age drilled from 23rd of June to the 3rd of October using a skid-mounted Zinex A5 diamond drill rig, which was converted to be helicopter-portable part way through the drill program. All New Age drilling was done using triple tube HQ3, with inner splits used to maximize core recovery. Midnight Sun drilled during two periods between June 28th to October 23rd using a MultiPower Prospector P1 track mounted drill and a TerraSonic CC150 track mounted drill. Midnight Sun drilling used a combination of drilling techniques, including ODEX and Sonic drilling through overburden and diamond drilling with triple tube HQ3, with inner splits in bedrock.

Trans North Helicopters Ltd of Whitehorse, Yukon, (“Trans North”) provided helicopter support for drill moves and logistical support. Yukon-based contractors hired through Equity built lumber drill pads for helicopter-supported drilling, with sites cleared by the pad builders using a CanDig Mini Excavator.



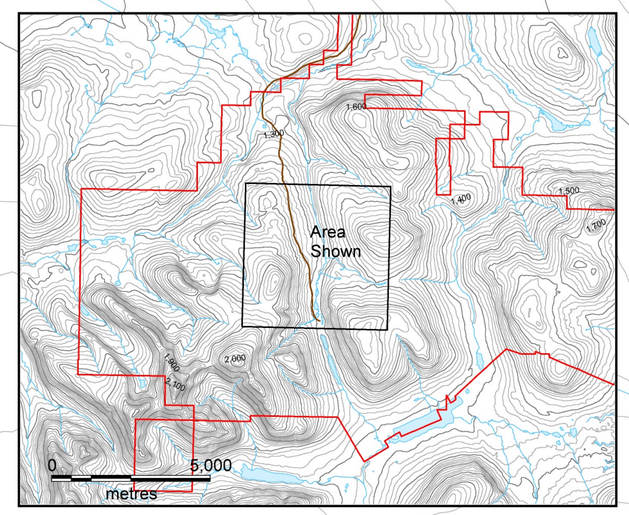
BMC Minerals

BHEM Location Map

EQUITY

Date: 30/01/2018	*Figure* 7
Proj: UTM Zone 9 (NAD 83)	
Prov: YUKON	

N



K17-421
K17-423
K17-444
K17-446
K17-445
K17-442
K17-454
K17-455
K17-443
K17-453
K17-457
K17-458
K17-459
K17-456
K17-460
K17-462
K17-461
K17-463
K17-448
K17-452
K17-451
K17-464
K17-425
K17-449
K17-428
K17-441
K17-429
K17-426
K17-426B
K17-447
K17-433
K17-436
K17-427
K17-432
K17-450
K17-420
K17-431
K17-422
K17-430
K17-434
K17-435
K17-434
K17-439
K17-438
K17-465
K17-466
K17-440
K17-437

1,800
1,700

0
500
metres
Scale: 1:5,000

2017 Drill Collars by purpose
- Exploration
- Geotechnical
- Hydrogeological
- Pre-2017 Drill Collars
- Deposit extents
- KZK Property Boundary
- Tote Road
- Stream
- Lake

BMC Minerals

KZK Project

2017 Drill Collar Locations

EQUITY

Date: 02/16/2018
Proj: UTM Zone 9 (NAD 83)
Prov: YUKON

Figure 8

6.6.1 Collar and downhole surveys

Drill hole collars were spotted with either a handheld GPS or were laid out by Challenger using an RTK DGPS. Prior to drilling, drill rigs were aligned using a Brunton Pocket Transit Compass set to a declination of 20.3° in order to correct to true north azimuth (Figure 9). Short, vertically oriented drill holes were not aligned along any particular azimuth. After completion of the drill hole, drill collars were marked with a wooden stake and surveyed with an RTK DGPS. Surveyed drill collar locations are presented in Appendix D.

Downhole orientation surveys were completed using both a Reflex EZ-shot system and Reflex EZ-Gyro downhole probe. Short, vertical drill holes were not surveyed for azimuth drift.

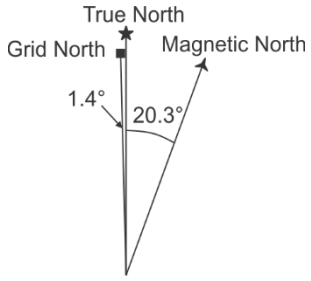


Figure 9: A diagram representing the angles between grid north, true north, and magnetic north at the KZK property, June 14th, 2017

The Reflex EZ-Shot measures drill hole azimuth relative to magnetic north, as well as dip and magnetic field strength. Magnetic north azimuth readings were converted to UTM grid north by adding 21.7°. The shallowest EZ-shot surveys were typically completed 12–18 m into bedrock, followed by tests at 24 m intervals as the hole progressed. Survey results were not used if the measured azimuth deviated significantly from those above and below, which is typically due magnetic interference (i.e. magnetic bedrock, drill string). Such interference can often be confirmed by magnetic field strength readings that deviate from between 5600 nT and 6000 nT.

The Reflex EZ-Gyro gyrocompass tool uses a north-seeking micro-electromechanical system (MEMS) to measure drill hole azimuth and dip deviation relative to true north. Measurements are unaffected by ferromagnetic materials therefore the tool can be used inside the drill string and are not affected by magnetic bedrock. True north azimuth readings were corrected to UTM grid north by adding 1.4° (Figure 9). Gyro surveys were typically recorded at 15 m intervals downhole during drilling. Single-measurement readings were recorded as “Standard” and multi-measurement readings were recorded as “Optimized”.

All in-pit drill holes were surveyed down-hole with the EZ-shot system. K17-447 was surveyed with both the EZ-shot and EZ-gyro systems. K17-448, 449, and 450 were surveyed with the EZ-gyro system.

6.6.2 Core orientation

Drill core was oriented in every exploration drill hole in 2017 from the base of overburden until the end of hole (EOH). The bottom-of-hole orientation mark was placed by the drill crew using a Reflex ACTIII RD core orientation system. Following transport to the core shack, geotechnicians would realign the core and draw a blue orientation line if the bottom of hole mark could be accurately related to the rest of the drill run. Orientation lines were transposed onto adjacent runs if the start or end of the runs could accurately fit together. Alpha and beta angles of structural features were recorded along with a confidence rating on a scale of 1 to 3 as follows: (1) not certain of orientation and measurement, (2) moderate confidence since core matches well with orientation mark, and (3) high confidence because orientation line matches well for entire drill run. Additionally, lock angles were recorded between drill runs which fit together throughout the runs. Lock angles measure the beta angle between orientation marks of different runs, allowing to quantify variations in the orientation of the downhole mark.

6.6.3 Geological core logging

Geological logging was completed by the onsite geologists, who collectively logged 100% of the core drilled in 2017. Core logging focused on lithology, mineralization, alteration, structure, veining, oxidation intensity and geodomain classification, with data captured in GeoSpark database software. All drill core was photographed and is stored on pallets at the KZK Camp, along with relocated historical core. Drill logs are attached as Appendix Q.

Lithology was logged with the same coding system defined in 2016 (Hughes and Voordouw, 2017). Mineralized intervals are recorded in the mineralization table and, above 20% modal sulphide, the lithology table as massive sulphide (e.g. OA, OB) and semi-massive sulphide (e.g. OI, OJ).

Alteration was logged in the alteration table of the GeoSpark database, with features recorded including mineral type (e.g. MU for muscovite, CL for chlorite) and an interpreted origin as either “original” (OR, syngenetic hydrothermal) or “overprint” (OP, regional metamorphic) alteration. Alteration types associated with syngenetic hydrothermal alteration at the ABM deposit include muscovite (MU, OR), chlorite (CL, OR), and cordierite (CI, OR).

Structures were characterized (i.e. fault, foliation), attributed an intensity on a scale of 1 to 7 (1 = trace, 7 = intense) and, if possible, measured relative to core axis (alpha angle). Orientations measured on oriented core were also given a beta angle and orientation confidence on a scale of 1 to 3, where 1 is lower certainty and 3 is highest. Approximately 90% of all structural records (N = 3362) are for the dominant foliation, or joint, foliation (DFOL, FOL) and fault zones (FLT).

Veins were logged as sets characterized by a core depth range, vein mineralogy, core axis angle and percent abundance within the defined interval. Oxidation was logged on an intensity scale of 0 to 4, where 0 is unoxidized and 4 is completely oxidized. The geodomain classification was typically applied by the project geologist after core logging was complete and the drill trace plus data was imported into Micromine. Classifications include three metallurgical domains for ore and nine metallurgical domains for waste rock, and used the codes developed in 2015 (Baker, 2015a; Duncan, 2015).

6.6.4 Geotechnical core logging

All drill core (100%) was geotechnically logged, either by Equity geotechnicians, Knight-Piésold engineering personnel, and/or Dempers and Seymour personnel. Data from the drill core logged by Equity was captured in GeoSpark software, an Access-based database management system. Geotechnical core logging was done by geotechnicians and involved measuring recovery, rock quality designation (RQD), magnetic susceptibility and bulk density. Results are captured within data tables named “Geotech” (recovery, RQD), “Geophysics” (magnetic susceptibility) and “Specific Gravity” (bulk density).

Recovery was measured to the nearest centimetre, from core block to core block and from the base of overburden to the end of hole. The total recovery for the 2017 drilling program was 91.8%, which is calculated by summing all of the core recovered and then dividing by the difference of drilled metres minus overburden. Overall, the 2017 recovery is equivalent with the 2016 program (91.7%).

Rock quality designation (RQD) was also measured from core block to core block, comprising the sum of all naturally fractured core lengths >10 cm in length divided by the run length. Natural fractures include breaks that are inherent to the lithology (e.g. joints) but not mechanical breaks generated by drilling. Average RQD is significantly lower for the 2017 program (32.7%) than for the 2016 program (51.6%) programs. This is likely due to both the high number of faults drilled in 2017 for geotechnical investigation and also the high number of short holes, which did not intersect significant unweathered rock.

Magnetic susceptibility for all holes were measured with a multi-parameter (MPP) probe from Instrumentation GDD Inc. Magnetic susceptibility measurements were taken at 0.5 m intervals, starting from below the base of overburden to the end of hole. Statistics for magnetic susceptibility are presented in Table 8.

Table 8: Magnetic susceptibility data collected as part of all BMC KZK drill programs

Campaign	Instrument	Readings	Mean	Std dev	Skew	Min	25th %ile	Median	75th %ile	Max
2017	MPP probe	7004	1.92	8.37	29.64	0.0	0.19	0.66	1.82	411
2016	KT-10	846	1.7	12.9	13.5	0.0	0.0	0.2	0.3	248
2016	MPP probe	31484	2.4	21.4	21.7	0.0	0.0	0.3	1.1	796
2015	KT-10	17160	7.79	46.76	10.1	0	0.27	0.63	1.43	937

A total of 657 bulk density (BD) measurements were completed, mostly on representative 10–15 cm long whole core samples of various hanging wall and footwall lithologies (N = 466) as well entire half- or quarter-core sample submitted for analysis (N = 102) and SG standards (N = 89). Each of these samples was twice weighed in a basket suspended below a digital metric balance, once in air and a second time in water (i.e. “water immersion method”). Measuring directly on the scale was avoided due to magnetic interference concerns. No measurements were taken on excessively friable or broken samples.

The two standards used to monitor BD measurements were each calibrated by averaging 50 measurements, which returned bulk densities of 4.60 ± 0.10 g/cm^3 for a piece of NQ-sized massive sulphide (SG MXSX standard) and 2.65 ± 0.05 g/cm^3 for a BQ-sized piece of porphyritic rhyolite (SG RHY standard). Weights of these standards overlap with core samples. One standard was weighed for every nine bulk density measurements. Geotechnical drill data is available as Appendix R

6.6.5 Geochemical sampling and assay

A total of 250 samples were submitted for geochemical assay, comprising 223 HQ3 half-core samples, 13 blanks and 14 certified reference material (CRM) samples. Each of the core samples was marked with a unique sample tag in the core box. All mineralized intersections were sampled along with 1–10 m of the immediate hanging wall and footwall rock to characterize waste rock dilution. Core samples were constrained by lithological contacts, with the exception of very short lithologies. If possible, sampling was constrained by alteration and mineralization features as well. Mineralized samples had a nominal sample length of 1.0 m and a minimum length of 0.3 m whereas barren or weakly mineralized samples have typical nominal and minimum sample lengths of 1.5 m and 0.5 m respectively.

Half core samples were cut parallel to the core axis with an open circulation rock saw. Split core was consistently sampled from the same side, then placed into labelled plastic sample bags that were sealed with a plastic zip tie. Samples were then packed into rice bags together with QA/QC samples (i.e. certified reference materials, blanks), sealed with security tags and then shipped to SGS Mineral Services Geochemistry Vancouver in Burnaby, BC, (“SGS”) for geochemical assay. A list of required quartz washes to follow suspected high-grade samples was also submitted to SGS, in order to avoid contaminating adjacent lower grade samples. These quartz washes were completed at the crush and pulveriser stage of sample preparation.

Each core sample was analyzed for selected base metals (Cu, Fe, Pb, Zn), precious metals (Ag, Au) and trace elements (As, Ba, Bi, Hg, S, Sb, Se), with all analytical certificates attached in Appendix S. Quality assurance and quality control (QA/QC) of these analyses was monitored through the insertion of certified reference materials (CRMs) and blanks alternately every 10 samples into the sample sequence, and through two check assay programs. A review of the QA/QC program is attached as Appendix T.

All CRMs were manufactured from sulphide ores and are the same as those used during the 2015 drill program (Hughes et al., 2016; Voordouw, 2016b). The CRMs are certified for Cu, Pb, Zn at the % level, as well as Au and Ag at the ppm level, and were originally selected to match low-, medium- and high-grade mineralization. During sampling, CRM selection was based on the tenor of surrounding mineralization, with CDN-ME-1311 used for low-grade, OREAS 621 and 623 used sequentially for medium-grade, and OREAS 113, GBM310-16 and G312-4 used for high-grade. A minimum weight of 100 g was used for CRM samples so that reanalyses could be completed if required. Blank material comprised the same barren landscaping stone that was calibrated in 2015 (Hughes et al., 2016; Voordouw, 2016b). The CRM suite was more widely used in 2015 with three CRMs preferentially used in 2016 and GBM310-16 only used once (Table 9).

Table 9: CRM usage during BMC KZK drilling programs

CRM Type	Number of times used		
	2015	***2016***	***2017***
CDN-ME-1311	109	65	11
OREAS 621	63	34	1
OREAS 623	62	34	1
OREAS 113	14	0	1
GBM310-16	15	1	0
G312-4	9	0	0

6.7 Geotechnical Investigations

Geotechnical investigations completed in 2017 included diamond drilling for in-pit geotechnical investigations (N = 9), and infrastructure related geotechnical drilling (N = 35), test pitting, geotechnical logging as well as field and laboratory testing of geological materials. Drilling methods are reported in section 6.6 Drilling.

The majority of the 2017 geotechnical investigation program was focused on the infrastructure geotechnical investigation, including 35 of 44 geotechnical drill holes (937.7 m) and all 14 test pits. This portion of the 2017 geotechnical program was conducted by Knight Piésold Consulting of Vancouver, BC ("Knight Piésold"). The other portion of the geotechnical investigation program was focused on the in-pit geotechnical investigation, including the remaining nine drill holes (1540 m) and the optical-acoustic televiewer program. This program was directed by Dempers and Seymour Pty Ltd. of Perth, WA ("Dempers and Seymour").

6.7.1 Infrastructure geotechnical program

Infrastructure-focused drilling and test pitting was conducted at the proposed sites for classified materials storage, stockpiles, mill site and paste plant. The program was completed over two phases, with drill holes K17-421 through K17-426 competed between June 28 to August 13, 2017 (phase one), and drill holes K17-451 through K17-466 completed from October 4 through October 23, 2017 (phase two).

The geotechnical program conducted on the geotechnical drill holes included geotechnical logging of standard penetration testing (SPT) of surficial materials, uniaxial compressive stress (UCS) testing on representative core samples. Geotechnical logging data from this program is available in Appendix R.

SPTs were performed at approximately 1.5 m intervals until bedrock was encountered to estimate the state (compactness) of the material and to obtain samples for laboratory testing. Tests were conducted with an automatic hammer equipped with a 610 mm AWJ split spoon sampler. Blow counts were recorded at four continuous 150 mm intervals for a maximum sampling length of 600 mm. The N-value was determined as the sum of the blow counts for the second and third interval and can be related to the compactness of the soil. The tests were terminated prior to reaching the maximum sampling length when less than 150 mm penetration per 50 blows was achieved. The length of the incomplete test was recorded when early refusal occurred.

A total of 10 Rock samples were taken from the 2017 geotechnical drilling for laboratory testing in order to characterize their strength. The rock samples were subjected to uniaxial compressive stress (UCS) tests at the Norman B. Keevil Institute of Mining Engineering at the University of British Columbia.

Hydrogeological monitoring equipment was installed in ten of the infrastructure drill holes. Packer testing for hydraulic conductivity was completed in 12 infrastructure drill holes during the 2017 infrastructure program. Further information can be found in section 6.10 Hydrogeological Investigations.

Overburden test pits were located with a handheld GPS and dug to refusal at the top of bedrock, barring technical or environmental issues such as insufficient machine capability, excessive groundwater ingress, poor wall stability and/or permafrost. Test pit walls and stockpiles were geotechnically logged and samples were collected for additional laboratory testing. Pits were accessed using existing trails and roads where possible,

however some locations required making new trails. Each test pit was reclaimed through backfilling and recontoured to match the pre-excavation ground profile.

6.7.2 In pit geotechnical program

The purpose of the in-pit geotechnical investigation program was to study the geotechnical properties of the proposed open pit high-wall. The program comprised the geotechnical logging of historic and 2017 drill holes, hydraulic conductivity testing, and optical and acoustic televiewer surveys performed on open boreholes upon completion of each drill hole.

Geotechnical logging of historical and new drill holes was conducted by D&S personnel. Hydraulic conductivity testing was conducted on 2017 drill holes during drilling.

Downhole optical and acoustic televiewer surveys were completed by Equity geologists. These surveys provide in-situ imaging of the bore hole walls in order to collect structural measurements and characterize the nature of the rock mass at the proposed pit wall. Drill holes were planned to intersect the proposed pit wall at a right angle. Upon completion of a drill hole, the drill rods were removed, and the borehole was flushed with water. A dummy probe was used to test the integrity of the bore hole walls prior to sending the televiewer instrument down the hole. Two surveys were conducted using the optical and acoustic televiewer probes to capture optical and acoustic data along the length of the hole.

The optical televiewer produces a true colour image of the bore hole wall while the acoustic televiewer produces an acoustic image of the internal wall. The acoustic image is a sonar image based on the amplitude and travel time of acoustic beams emitted by the probe and reflected off the drill hole wall. Both the optical and the acoustic survey methods produce 360° images of the drill hole wall and both utilize a built-in fluxgate magnetometer to orient the image with respect to magnetic north. Rock structure can be interpreted from both images to give dip and dip direction for each feature down the hole, as well as to identify fractures and zones of broken ground.

The data produced from the televiewer survey was interpreted by D&S engineers to inform a 3D geotechnical structural model of the pit area and determine design parameters of the pit wall. Downhole logs from the televiewer program can be found in Appendix U.

6.8 Hyperspectral Imaging Study

Over the course of the 2017 field season, spectra were measured on cut and whole drill core at 3-5 metre intervals over 35 holes. In addition to the spectral capture, sample location depths were measured, marked with a grease pencil on the core, described, and photographed. In total, 4101 rock spectra were captured over 3330 unique locations. Samples were captured in the field using a field portable TerraSpec® VIS-NIR Spectrometer (“TerraSpec”). The system collects spectra in the visible and near infrared (VNIR, 350-1000 nm) and short-wave infrared (SWIR, 1000-2500 nm) wavelength ranges (Danner et al., 2015). Measurement procedures followed those recommended by the manufacturer (ASD Inc., 2008).

Processing of the TerraSpec data was performed in The Spectral Geologist™ (“TSG”), a dedicated and geologically-focused program for processing spectral analyses. Spliced spectrum files (.sco files) were imported into TSG, and de-stepped between 440 and 2240 nm to remove any artefacts from the splicing process. The final correction spectrum was set to “Spectralon Absolute Reflectance” in order to match with the white reference that was used. SWIR data was the focus of this exercise due to the abundance of hydroxyl group (OH) bearing minerals in the study area. VNIR spectra from 350 to 1300 nm were also processed however there were very few valid analyses in the VNIR range and this data was not used in our analysis.

After processing the spectra in TSG, mineral IDs are matched by The Spectral Assistant® “TSA” (a routine within TSG) and various scalar data are extracted from the spectra and exported to .csv for further analysis.

Scalar data were exported to .csv and matched with their corresponding depths. The resulting table was then filtered to remove redundant data and imported to Micromine. Scalar data was attached to their corresponding drill holes as event data, and X-Y-Z coordinates were generated from these event data to plot

the scalar data as points. Data was then filtered in Micromine to generate useful subsets of data for interpretation. Drill core TerraSpec data is included as Appendix V.

6.9 Hydrogeological Investigations

The 2017 hydrogeological work program was undertaken as a part of the infrastructure drilling program (Section 6.7.1). The program involved hydraulic conductivity testing and the installation of vibrating wire piezometers, stand pipe piezometers, and thermistor strings. The locations of these drill holes can be found in Figure 8.

6.9.1 Hydraulic conductivity testing

The hydraulic conductivity testing (packer testing) for the infrastructure geotechnical investigation was conducted by Knight Piésold engineers. Packer testing was completed at 7–16 m intervals with a nitrogen-inflated single-packer system manufactured by RST Instruments Ltd of Maple Ridge, BC or water-inflated packer system manufactured by Inflatable Packers International. The procedure involved injecting water at a constant pressure into a flushed and sealed drill hole for 20 minutes in order to measure the volume of injected water with a flow meter. The injection pressure and volume of water pumped into the bedrock are used to calculate the hydraulic conductivity of the rock mass.

Drilling contractors and methods were the same as those used in infrastructure drilling program (section 6.7.1), although each well hole was drilled without the use of drilling additives or rod grease. Once drilling was complete the holes were then flushed with clean water until the water return out of the casing was clear. Recovered core was reviewed by Knight Piésold staff to select a suitable zone over which the well screen would be installed. Screened zones were selected to target areas of increased permeability identified by geotechnical logging and packer testing.

Hydraulic conductivity testing for the in-pit geotechnical program was conducted by Knight Piésold engineers using a single bladder packer style system above and below the major fault zone at both Krakatoa and ABM to determine hydraulic conductivity of the bedrock in the proposed pit wall.

Packer testing was completed at 6–10 m intervals with a nitrogen-inflatable single-packer system manufactured by RST Instruments Ltd of Maple Ridge, BC. The procedure involved flushing the drill hole with water, inflating the packer to seal the borehole, and 10–15 minutes of constant pressure water injection into the isolated zone, with injected water volume measured with a flow meter. The injection pressure and volume of water pumped into the bedrock are used to calculate the hydraulic conductivity of the rock mass.

6.9.2 Hydrogeological installations

Ten-node thermistor cables were installed in seven of the geotechnical drill holes during phase one, with the purpose of establishing ground temperature profiles across the project site. All seven of these installations were completed during the drill program, with each attached to PVC pipe, lowered downhole and then grouted in place with a mixture of cement and bentonite powder. The PVC pipe was filled with silicone oil to reduce the effect of the ambient air temperature on the ongoing thermal measurements. A DT2055B data logger was installed at each location to collect and record temperature measurements at regular intervals. A plastic protective casing was installed over the data logger at each site.

Vibrating wire piezometers (VWPs) manufactured by RST were installed to monitor the pore water pressure profile with depth and time. Six VWPs were successfully installed in three drill holes by KP personnel. The VWPs were attached to Schedule 40 PVC pipe as it was lowered down the holes. The pipes and piezometers were then grouted in place from the bottom of the hole up using a cement and bentonite powder mixture that was pumped down through the PVC. The VWPs were monitored throughout the grouting process to track grouting progress and to ensure no damage to the instruments occurred. A permanent DT2055B ten-channel data logger was installed at surface to regularly record pressure and temperature measurements. A plastic protective casing was also installed to protect the data logger.

Stand pipe piezometers were installed in seven drill holes during the infrastructure drilling program. Two holes that had stand pipe piezometers installations planned had no groundwater and were not equipped with

piezometers. Piezometers were installed with either a 1.5 m or 6 m screen at a completion zones depth ranging from 1.5 to 40.2 m.

6.10 Baseline Studies

Environmental and archaeological surveys initiated in 2015 were continued in 2017 in an effort to characterize the baseline conditions of the project area.

6.10.1 Environmental monitoring

Surface water quality monitoring was undertaken on a monthly basis throughout 2017, a continuation of the work that commenced in April 2015. Samples to assess water quality were collected from 11 surface water stations, with field measurements collected including pH, specific conductivity, temperature, redox potential, dissolved oxygen, temperature and turbidity. Laboratory testing of various other parameters was done by Maxxam Analytics of Whitehorse, YT, ("Maxxam") and included anions, alkalinity, acidity, ammonia, dissolved organic carbon, total and dissolved metals, total cyanide and weak acid dissociable (WAD) cyanide.

Ground water quality monitoring was carried out in June, September and early-November. Prior to sample collection, monitoring wells were purged so that field parameters stabilized to less than 10% variability. Measured field and laboratory parameters are the same as those measured for the surface water, with lab tests also completed by Maxxam.

Wildlife monitoring was conducted by an onsite environmental monitor as well as onsite personnel. Wildlife sightings were recorded in a log which was reviewed and consolidated weekly by the environmental monitor.

Wildlife habitat surveys focused on caribou, moose and breeding birds. Caribou surveys included a post-calving aerial survey in late July and a post-rut aerial survey in early October. Both surveys focused on the same areas used for the 1995, 2015 and 2016 surveys and were conducted with contour flight line patterns over alpine and subalpine areas. Moose surveys included an air-based late winter survey conducted in March and a post-rut surveys carried out in November. Breeding bird surveys were carried out at locations within the proposed mine site and along the tote road. Surveys utilized standard point counts, with breeding birds identified through sight and/or sound and species of interest observed between point counts also recorded.

6.10.2 Archaeological survey

All exploration activities requiring ground disturbance in areas with elevated potential for the presence of archaeological or historic sites were previously assessed in 2015 and 2016. In addition, no exploration activities occurred in alpine areas near ice patch features.

6.10.3 Fish/habitat surveys

Fish and fish habitat surveys were completed on Geona creek and the Geona-Finlayson creek confluence, with an emphasis on re-sampling the sites previously surveyed in 1995, 2015 and 2016. Further surveys were carried out on the South Lakes and Geona ponds. A scientific collection license was obtained from the Department of Fisheries and Oceans (DFO) prior to sampling. Captured fish were identified, measured, weighed and assessed for abnormalities, then released at the point of capture. Catch per unit effort (CPUE) was calculated to enable semi-quantitative comparisons of populations over space and time. Sampling locations and in situ water parameters (i.e. temperature, dissolved oxygen, conductivity) were also characterized. Sampling to characterize benthic, sediment and zooplankton conditions was carried out at each survey location. Ground- and air-based Arctic grayling spawning surveys were conducted in early June in the most suitable habitats, after the water temperature had increased to at least 4 °C and conditions were favorable for spawning.

7.0 GEOLOGICAL SETTING

7.1.1 Regional geology

The KZK Property is underlain by polydeformed Devonian to Mississippian meta-sedimentary, -volcanic and -plutonic rocks assigned to the Yukon-Tanana terrane, which extends from central British Columbia to eastern Alaska. These rocks are interpreted as the product of middle Palaeozoic continental arc magmatism in a pericratonic setting that was separated from Ancestral North America by a back-arc rift basin occupied by the Slide Mountain Ocean. In central Yukon the Finlayson Lake belt is comprised of lithologies assigned to both the Yukon Tanana and Slide Mountain terranes (Nelson et al., 2013). Syngenetic-penesyngenetic volcanic-hosted massive sulphide (VHMS) mineralization occurs in both terranes and is hosted in multiple settings.

The Finlayson Lake belt is a crescent-shaped area that is approximately 300 km long and 50 km wide, extending from Ross River in the north to Watson Lake in the south. It is juxtaposed with Proterozoic and Palaeozoic strata of the ancient North American continental margin to the southwest, along the Tintina Fault, and with Carboniferous rocks of the Slide Mountain Terrane to the northeast (Figure 10). The portion of the Yukon-Tanana terrane which underlies most of west-central Yukon is contiguous with the Finlayson Lake district through 456 km of Late Cretaceous right lateral strike-slip movement along the Tintina Fault (Layton-Matthews et al., 2008).

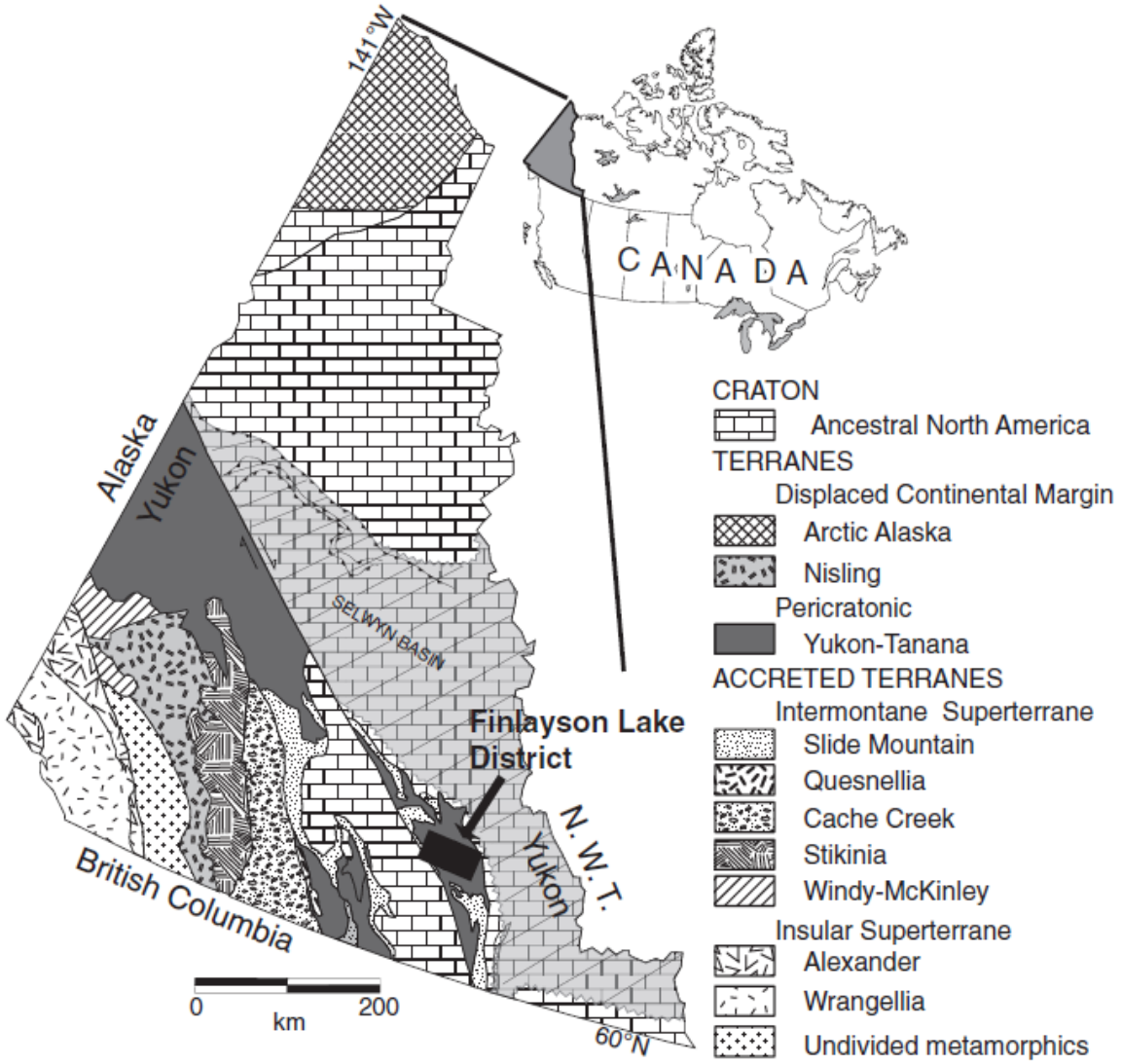


Figure 10: Regional geology of the Yukon showing the Finlayson Lake district (from Layton-Matthews et al., 2008)

7.1.2 Local geology

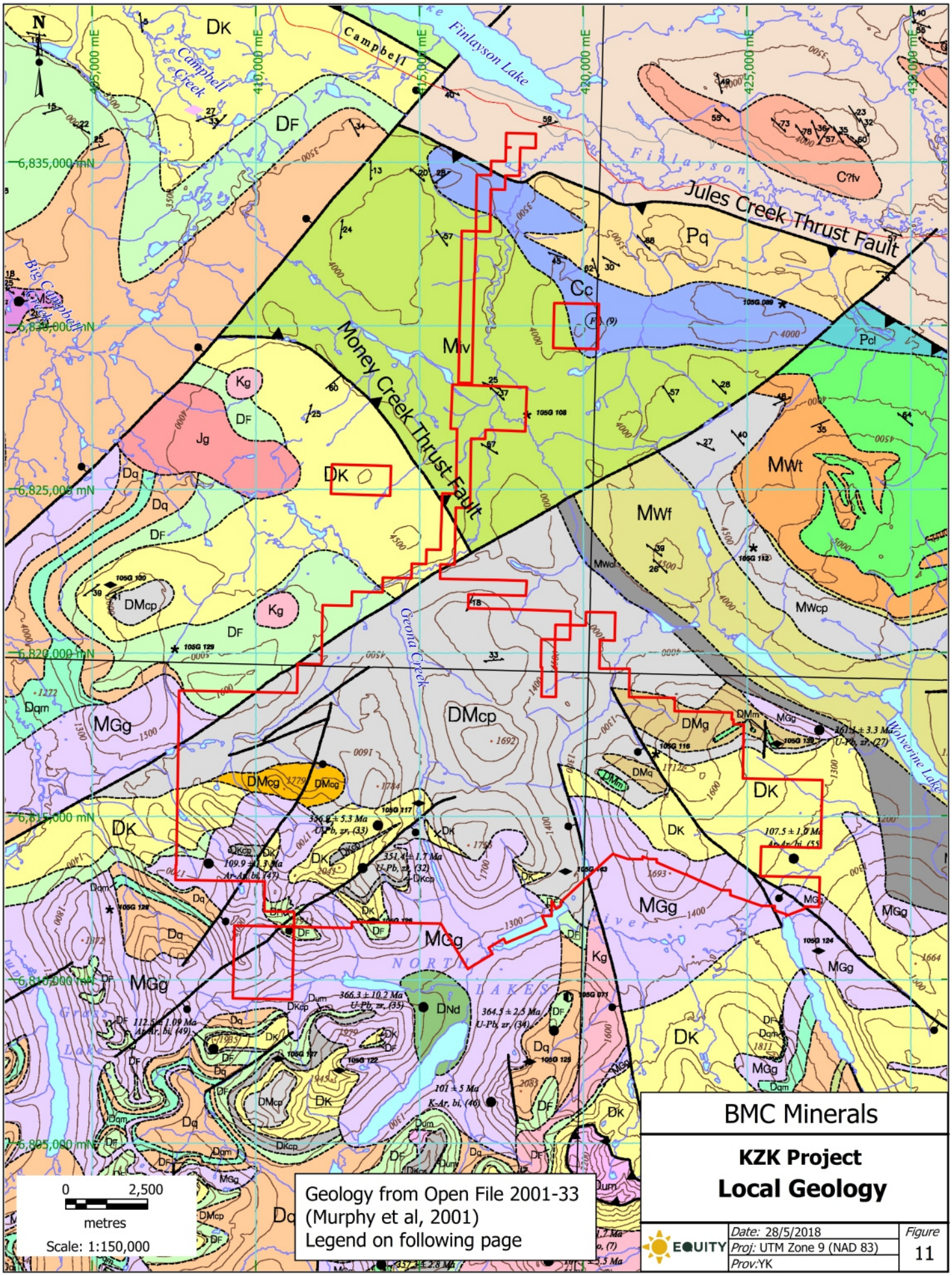
The Finlayson Lake belt of the Yukon-Tanana terrane is composed of foliated and lineated low-middle greenschist-grade meta-sedimentary, -volcanic and -plutonic rocks (Figure 11, Figure 12) that were imbricated by Permian thrust faulting into the Cleaver Lake, Money and Big Campbell thrust sheets. The final stage of thrusting placed this rock package onto North America and occurred along the Big Campbell and Inconnu thrusts in Late Triassic to Early Jurassic (Murphy et al., 2006). With the exception of the Limy 1–9 claim block and the corridor of claims along the tote road to the Robert Campbell Highway, the KZK Property lies entirely within the Big Campbell thrust sheet in what is the structurally deepest part of the Yukon-Tanana terrane (Murphy et al., 2006). Two middle Palaeozoic unconformity-bounded groups (Grass Lake and Wolverine) are exposed within the Big Campbell thrust sheet.

The lowermost part of the Grass Lakes Group (North River Formation) consists of pre-Early Mississippian (pre-365 Ma) quartz-rich, non-carbonaceous metaclastic rocks (**Dm**, **Dfv**, **Dqm** and **Dq**) dominated by quartzite psammite and metapelite with minor felsic metavolcanic schist, calcareous schist/metapelite and marble members (Murphy et al., 2006). The North River Formation is conformably overlain by 30 to >200 metres of the *c.* 365 to 360 Ma mafic-dominated arc- and back-arc-related Fire Lake Formation (**DF**), which consists of mafic metavolcanic schist and phyllite with minor carbonaceous phyllite and quartzite, rare marble and felsic metavolcanic, and locally significant meta-gabbro, -pyroxenite and -ultramafic bodies. The Besshi-style Fyre Lake Cu-Co-Au VMS deposit (Peter et al., 2007) is hosted in boninitic mafic to ultramafic rocks at the top of the Fire Lake Formation (Piercey et al., 2001a).

Conformably overlying the Fire Lake Formation is the felsic volcanic and sedimentary rock-dominated Kudz Ze Kayah ("KZK") Formation (**DK**, **DKcp** and **DKcs**), whose lower parts consist predominantly of Devono-Mississippian (*c.* 360–356 Ma) felsic volcanic and variably carbonaceous sedimentary rocks. These rocks are interpreted to have formed within a continental back-arc rift to back-arc basin (Layton-Matthews et al., 2008). The thickest accumulation of felsic metavolcanic rocks within the KZK Formation occur on the KZK Property, which hosts the ABM and GP4F VMS deposits. The KZK Formation grades conformably upwards into the Wind Lake Formation, which comprises a thick sequence of carbonaceous to locally calcareous phyllite with lesser siltstone, mafic metavolcanic, blue quartz-bearing grits, conglomerate, psammite and quartzite (**DMq**, **DMm**, **DMcp**, and **DMcg**). Coeval with the KZK and Wind Lake formations are Devonian-Mississippian (360±1 Ma) peraluminous K-feldspar porphyritic to megacrystic granites of the Grass Lakes plutonic suite (**MGg** and **MGag**), which are inferred to be subvolcanic feeders (MacRobbie and Holroyd, 2005b; Murphy et al., 2001; Piercey et al., 2001c).

The Wolverine Group unconformably overlies the Grass Lakes Group and consists predominantly of Early Mississippian (*c.* 357–346 Ma) felsic volcanic and carbonaceous sedimentary rocks (**MWb**, **MWt**, **MWf**, **MWcp** and **MWcl**) (Murphy et al., 2006). The succession contains, from bottom to top, a lower conglomerate, felsic volcanic-dominated unit, carbonaceous argillite, the immediate footwall felsic volcanic and subvolcanic rocks to the Wolverine VMS deposit, and a hanging wall consisting of aphyric rhyolite and carbonaceous sedimentary rocks that, near their top, host basalt flows. Rocks of the Wolverine succession are interpreted to have formed within an ensialic back-arc rift basin that evolved to seafloor spreading (Layton-Matthews et al., 2008). The Wolverine Kuroko-style VMS deposit occurs at the contact between footwall felsic volcaniclastic rocks and either hanging wall carbonaceous argillite or exhalative rocks (Murphy et al., 2001; Piercey et al., 2001c).

A subhorizontal to moderately steep north to northeast dipping, penetrative ductile deformation fabric (S_1) overprints all Grass Lakes Group lithologies and is associated with low-mid greenschist grade (chlorite-biotite grade) metamorphic assemblages. It is less prominent or absent in the Wolverine Group. D_2 structures comprise tight meso-scale F_2 folds and an S_2 crenulation cleavage that cuts S_1 cleavage. D_3 deformation-related structures consist of late brittle faults, including the East and Fault Creek faults, and fault-related smaller-scale structures like kink bands and possibly broad, open F_3 folds (Baker et al., 2017).


N
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410,000 mE
415,000 mE
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6,820,000 mN
6,815,000 mN
6,810,000 mN
6,805,000 mN
Campbell Creek
Finlayson Lake
Jules Creek Thrust Fault
Money Creek Thrust Fault
Geona Creek
Wolverine Lake
DK
DF
Cc
Miv
Pq
Pcl
MWt
MWf
MWcp
Kg
Jg
Dq
DMcp
DMcg
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Geology from Open File 2001-33
(Murphy et al, 2001)
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BMC Minerals
KZK Project
Local Geology
EQUITY
Date: 28/5/2018
Proj: UTM Zone 9 (NAD 83)
Prov:YK
Figure
11

LEGEND FOR KZK LOCAL GEOLOGY (OPEN FILE 2001-33)

POST-THRUST INTRUSIVE ROCKS

CRETACEOUS

Kg — Equigranular biotite-muscovite granite

JURASSIC

Jg — Equigranular hornblende-biotite granite

YUKON-TANANA TERRANE

Footwall of Jules Creek Thrust

CARBONIFEROUS?

C?cs — Phyllite, ribbon chert, sandstone, grit, conglomerate

C?iv — Chlorite-feldspar-quartz phyllite (intermediate metavolcanic rocks)

Hanging wall of Jules Creek Thrust

PENNSYLVANIAN

Pcl — Phyllite, chert, conglomerate, greywacke, diamictite, limestone

Hanging wall of Money Creek Thrust

PENNSYLVANIAN

Pq — Quartz sandstone/quartzite

UPPER MISSISSIPPIANTO MID-PENSYLVANIAN

Cc — Bioclastic crinoidal limestone

EARLY MISSISSIPPIAN

SIMPSON RANGE PLUTONIC SUITE

MSg — Granite, quartz monzonite

LOWER MISSISSIPPIAN

Miv — Chlorite-muscovite-quartz phyllite (intermediate composition)

UPPER DEVONIAN

DF — Chloritic phyllite with lesser clastic rocks, marble

Footwall of Money Creek Thrust

EARLY MISSISSIPPIAN

WOLVERINE SUCCESSION

MWb — Chloritic phyllite

MWt — Thinly interbedded siliceous rock and phyllite (metatuff and exhalites)

MWf — Muscovite-quartz phyllite

MWcp — Carbonaceous phyllite and quartz sandstone

MWcl — Feldspathic meta-sandstone, grit and carbonaceous phyllite

EARLY MISSISSIPPIAN

GRASS LAKES PLUTONIC SUITE

MGg/ MGag — Granitic to monzonitic equigranular meta-plutonic rocks/Augen-textured granitic to monzonitic meta-plutonic rocks

LATE DEVONIAN

NORTH LAKES META-DIORITE

DNd — Foliated hornblende-biotite meta-diorite

UPPER DEVONIAN (TO LOWER MISSISSIPPIAN?)

GRASS LAKES SUCCESSION

DMq — Quartzite

DMm — Chloritic phyllite

DMcp — Carbonaceous phyllite and quartzite

DMcg — Meta-conglomerate

Kudz Ze Kayah felsic metavolcanic unit

DK — Undifferentiated feldspar-muscovite-quartz schist/ phyllite, siliceous muscovite-quartz schist/phyllite, augen schist/phyllite (meta-porphyry)

DKcp — Carbonaceous phyllite and quartzite

DKcs — Calcareous meta-sandstone and grit

Fire Lake metavolcanic unit

DF — Plagioclase-chlorite phyllite/schist, carbonaceous phyllite, muscovite-quartz phyllite

UPPER DEVONIAN AND OLDER?

Dq — Psammitic and meta-pelitic schist

Dqm — Marble, calcareous schist and lesser carbonaceous phyllite

Dm — Biotite-plagioclase-actinolite-chlorite schist

Dfv — Feldspar-muscovite-quartz schist (felsic metavolcanic rock)

Reference: Murphy et al (2001)

BMC Minerals

KZK Project

Local Geology Legend

EQUITY | Date: 13/12/2016 | Proj: | Prov: YK | Figure 12

7.1.3 Property geology

The KZK Property was first mapped in its entirety at 1:20,000 in 1996 scale by Cominco geologists (Schultze and Hall, 1997a). A mapping project covering the property was undertaken in 2017. The following discussion is modified from that work (Baker et al., 2017). Lithologic codes used on the 2017 KZK Project are summarized in Table 10. A map showing the property geology around the ABM and GP4F deposits is included as Figure 13.

The stratigraphy at KZK displays a tilted (moderate-shallow to the north) section through the Grass Lakes Group (Piercey et al., 2001b), with overprinted greenschist facies metamorphism and ductile deformation. All known deposits on the KZK Property (ABM, GP4F) occur within the KZK Formation. The entire stratigraphic column has been cross-cut by young NE-SW trending brittle faults such as the East and Fault Creek Faults.

The Grass Lakes Group on the KZK Property is divided into three main components from bottom to top (Figure 13): (1) Fyre Lake Formation mafic flows and ultramafic intrusions (2) the lower, sedimentary portions of the KZK Formation (or "lower sedimentary sequence" in MacRobbie and Holroyd, 2000), which is equivalent to the **DKcp** and **DKcs** units in Murphy et al (2001) (Figure 13) (3) Kudz Ze Kayah (KZK) Formation felsic volcanic, which hosts all significant VMS mineralization on the Property and (4) overlying Wind Lake Formation (or "upper sedimentary and mafic volcanic sequence" in MacRobbie and Holroyd (2000), equivalent to **DMm** and **DMcp** units of Murphy et al., (2001). In a gross sense, stratigraphy trends easterly, dips moderately to the north and is right way up; however, it may be locally overturned in tight, mesoscale F_2 folds.

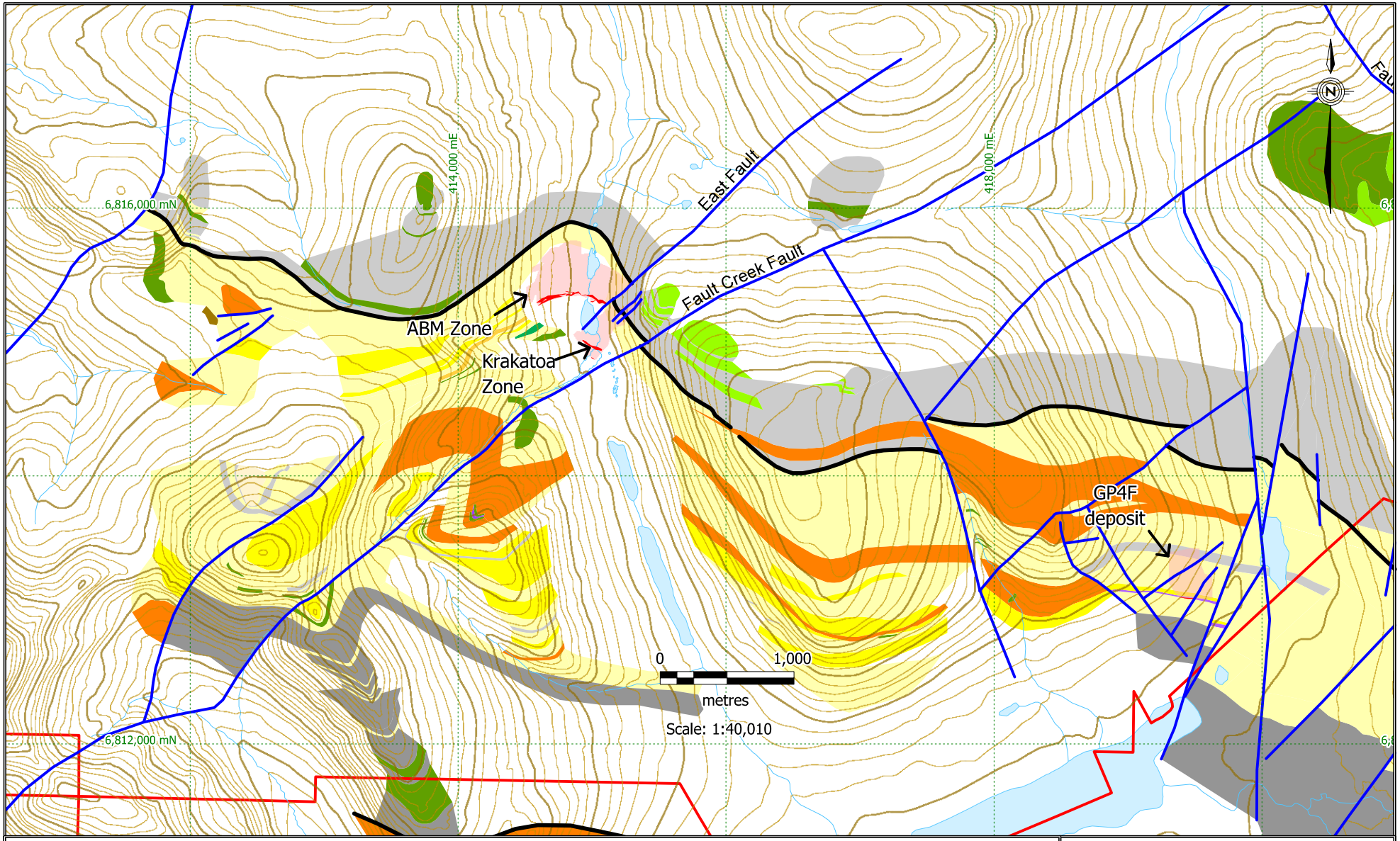
The lower sedimentary KZK Formation consists of siltstone, phyllitic schist, light grey quartzite and massive tuffaceous wacke that is interfingered with feldspar porphyry. Lithologies of minor abundance include mudstone, carbonaceous mudstone and felsic tuff.

Felsic volcanic of the KZK Formation can be subdivided into mappable end member units that comprise felsic volcaniclastic (**RHYv**), coherent felsic volcanic flows and intrusives (**RHYc**), and aphanitic to feldspar-quartz porphyritic intrusives (**RHYi**). Minor abundances of mafic intrusive (**MAFi**) and mudstone (**MDS**) also occur. The most abundant lithology is volcaniclastic rhyolite (**RHYv**), which comprises thinly bedded tuffs, lapilli tuffs and crystal tuffs (**RHYvx**) that are locally intercalated with thin layers of mudstone. With increasing grain size these fine-grained felsic tuffs grade into crystal-rich ash tuffs containing up to 35% light grey to white feldspar and clear grey quartz crystals.

Rhyolite flows and associated intrusives (**RHYc**) are thickest, most abundant and best exposed on Rhyolite Peak, west of the ABM deposit. These units are typically dense, siliceous, and aphanitic. Some outcrops along Fault Creek contain up to 70% spherulites ranging from 5–25 mm in diameter. Feldspar-quartz porphyry intrusions (**RHYi**) are characterized by 15–30% feldspar and/or 5–20% quartz phenocrysts set in a very fine-grained quartz-sericite-feldspar ± chlorite-ankerite groundmass. Feldspar phenocrysts are euhedral, light grey and range from 3–18 mm in size. Quartz crystals are subhedral, clear grey and 2–4 mm in diameter. Porphyry units are likely cogenetic with the epiclastic rocks.

Mafic intrusions (**MAFi**) are mapped throughout the KZK Formation, the best defined of which occurs immediately below the ABM deposit. This so-called "mafic footwall intrusion" consists of strongly foliated porphyroblastic amphibole-chlorite-biotite-calcite schist. Other types of mafic intrusion consist of coarse-grained mafic schist with less deformed enclaves exhibiting a relict gabbroic texture. Biotite-rich units with quartz, feldspar and/or calcite are logged as both mafic intrusion and sedimentary rocks, and in 2016 were reinterpreted as "pelite" (**PEL**) on the basis of their mineralogy and typically finely intercalated contacts with enveloping felsic volcanic rocks. Mafic tuffs (**MAFt**) consist of fine-grained chlorite-calcite phyllitic schist and are volumetrically minor in the KZK Formation.

The base of the Wind Lake Formation lies about 200 m up-section from the ABM deposit. It is finer-grained than the lower KZK Formation and comprises carbonaceous and calcareous mudstone (**MDS**) that is intercalated with mafic volcanic (**MAFt**) along with minor quartzite, siltstone, chert and felsic volcanic. The package underlies the northern half of the KZK Property (Murphy et al., 2001).



Wind Lake Formation

- Carbonaceous argillite, phyllitic quartzite
- Mafic-intermediate flow, dyke, sill

Kudz Ze Kayah Formation

Felsic volcanic

- Felsic crystal-rich to aphyric tuff
- Felsic flow/sill, augened, possibly some RHYif
- Undifferentiated sediment and carbonaceous mudstone

Lower KZK

- Carbonaceous mudstone, tuffaceous schist, biotitic metapelites, mudstone

VMS mineralization

- Massive sulphide (surface/sub-surface)
- GP4F "Horizon": Sulphide-rich chlorite-altered schist

Grass Lakes Plutonic Suite

- Feldspar+quartz porphry, augened porphyry
- Biotite and biotite chlorite schist

- Formation Contact
- Faults
- 100m Index contour
- 20m contour
- Lake
- Stream

BMC Minerals LTD

KZK Project
Property Geology

EQUITY

Date:	28/05/2018
Proj:	UTM Zone 9 (NAD 83)
Prov:	YK

Figure 13

Table 10: Lithological legend for KZK Project

Stratigraphic Unit	Geology Detail Code	Geology Detail Sub-code	Lithology	Description
	OVBN	-	Overburden	Unconsolidated overburden.
	FLZ	-	Fault Zone	
Grass Lakes Plutonic Suite	GRA	-	Granite	Coarse grained equigranular to weakly porphyritic augen granite
		GRApor	Porphyritic granite	Megacrystic feldspar ± quartz porphyritic granite
		GRAmg	Medium grained granite	Fine to medium grained granite
Wind Lake Formation	MAF	MAFt	Mafic volcaniclastic	Green, chlorite-biotite-calcite schist, mafic volcaniclastic, varying from fine grained ash to lapilli-sized. Variable texture, inferred protolith of volcaniclastic or epiclastic mafic volcanic material
		MAFta	Mafic fine grained volcaniclastic	Green, fine grained, chloritic mafic volcaniclastic.
		MAFw	Mafic volcanic flows	Green, massive to pillowed, chlorite-biotite-calcite greenstone. Inferred protolith of effusive mafic volcanic rocks.
	MDS	-	Carbonaceous mudstone	>15% carbonaceous component, weakly heterolithic to semi massive mudstone with slaty cleavage
Kudz Ze Kayah Formation	SED	-	Undifferentiated sedimentary rock	Variable; includes locally calcareous sandstone, wacke, recrystallized limestone
		SDS	Sandstone	Light grey to orangish, sand-sized quartzite. Inferred protolith of quartz-arenite to wacke.
		SDSc	Carbonaceous sandstone	Dark grey, carbonaceous to weakly graphitic, quartzite.
		SLT	Siltstone	Fine-grained siliciclastic sedimentary rock
		WCK	Wacke	Sandstone with 15-75% clay matrix
	MDS	-	Mudstone, tuff and rhyolite	Undifferentiated carbonaceous mudstone, tuffaceous mudstone and carbonaceous coherent rhyolite
		MDSt	Rhyolite tuff-dominant mudstone	<15% carbonaceous component, heterolithic appearance with rare mudstone laminae
		MDSc	Carbonaceous mudstone	>15% carbonaceous component, weakly heterolithic to semi massive mudstone with slaty cleavage
		MDSw	Coherent rhyolite with minor carbonaceous mudstone	<15% carbonaceous component, laminae of mudstone intercalated with coherent rhyolite
	PEL	-	Pelite	Interpreted sedimentary protolith. Biotite rich rock with quartz, feldspar and/or calcite
	CHT	-	Chert	
	MXSX	-	Massive sulphide	Massive sulphide (>50% PY-MG-SP-GL-CP-PO) in various proportions and with a variety of textures and gangue minerals
	SXSX	-	Semi-massive sulphide	20-50% sulphide in a variety of host rocks, with or without significant barite gangue material
	RHY	-	Undifferentiated rhyolite	Commonly altered and difficult to identify
	RHYc	-	Coherent rhyolite	Undifferentiated coherent rhyolite

Stratigraphic Unit	Geology Detail Code	Geology Detail Sub-code	Lithology	Description
		RHYcw	Curdy-textured and/or flow-banded	Flows or sub-volcanic intrusions with definitive siliceous flow banding or relict flow banding textures
		RHYcf	Feldspar ± quartz porphyry	Medium to coarse-grained feldspar and quartz porphyritic texture rhyolite
		RHYcq	Quartz porphyry	Medium to coarse-grained quartz-phyric texture
	RHYi		Aphanitic rhyolite	Aphyric massive to semi-massive siliceous rhyolite interpreted as intrusive dykes and sills
	RHYv	-	Volcaniclastic rhyolite	Undifferentiated fine to medium-grained volcaniclastic
		RHYvl	Lapilli volcaniclastic	Heterolithic volcaniclastic with >15% lapilli typically in an ash-dominated groundmass
		RHYva	Coarse-grained to ash sized volcaniclastic	Phaneritic ash volcaniclastic with >10% of crystals occurring as >1-<2mm typically in an ash-dominated groundmass
		RHYvx	Quartz ± feldspar crystal volcaniclastic	Quartz, ± feldspar-phyric (>10%) in an ash-dominated groundmass
	MAFi	-	Mafic intrusions	Chlorite-altered mafic intrusion, primarily in the footwall but also occurs as narrow dykes or sills within the felsic sequence
Fyre Lake Formation	PYX	-	Pyroxenite	Green, medium- to coarse-grained, weakly foliated, actinolite-chlorite meta-pyroxenite (?). Locally porphyritic.
	MAF	MAFt	Mafic volcaniclastic	Green, chlorite-biotite-calcite schist, mafic volcaniclastic, varying from fine grained ash to lapilli-sized. Variable texture, inferred protolith of volcaniclastic or epiclastic mafic volcanic material
		MAFta	Mafic fine grained volcaniclastic	Green, fine grained, chloritic mafic volcaniclastic.
		MAFw	Mafic volcanic flows	Green, massive to pillowed, chlorite-biotite-calcite greenstone. Inferred protolith of effusive mafic volcanic rocks.
	MDS	-	Carbonaceous mudstone	>15% carbonaceous component, weakly heterolithic to semi massive mudstone with slaty cleavage

The Yukon-Tanana rocks on the KZK Property are polydeformed and overprinted by low-mid greenschist facies metamorphism. Locally developed higher-grade metamorphism (i.e. upper greenschist to amphibolite) is more likely related to thermal (or contact) effects. Cominco noted evidence of five phases of deformation however, based on 2017 mapping, we recognize only three.

A typically subhorizontal to moderately steep north to northeast dipping, bedding parallel, penetrative fabric (S_1) overprints all formations and suites on the KZK Property, and is associated with lower greenschist facies assemblages and phyllite development. Relatively little deformation appears to be involved in the development of the S_1 foliation. It is unclear precisely how S_1 is formed; however, it may record an early phase of D_2 deformation or it could represent the preferred growth orientation of micaceous minerals under lithostatic load during anchizonal-epizonal (e.g. Árkai et al., 2003) low grade metamorphism (Baker et al., 2017).

D_2 structures comprise tight, meso-scale F_2 folds and an S_2 crenulation cleavage defined by fine folds of S_1. S_2 foliation generally strikes similarly to S_1 but is steeper than S_1, dipping moderately to steeply north to northeast. Development of S_2 crenulations is not uniform – it is localized and can be intense to broadly-spaced. Development of S_2 appears to be controlled by rock type and intensity of S_1. More felsic and well foliated (S_1) rocks with abundant sericite tends to exhibit the most intense and finely developed D_2 crenulations whereas these folds are broader in coarser-grained and less felsic rock.

D_3 deformation-related structures consist of late brittle faults, including the East and Fault Creek faults, fault-related smaller-scale structures like kink bands (S_3), and possibly broad open folds (F_3). The East and Fault Creek faults are important, ore-bounding, structures associated with the ABM deposit and are modelled in detail by Baker (2016).

Kink bands (S_3) are rare across the property and defined by cm-scale kinking of the main (S_1) schistosity. The S_3 planes have two dominant orientations: subvertical, NW-SE striking; and subhorizontal. Their hinge lines plunge gently to moderately to the north, northwest, and northeast. This rotation of the fold axes may be related to drag folding during fault movement.

7.2 Mineralization

Mineralization on the KZK Property consists of the ABM and GP4F deposits, with the ABM deposit further subdivided into the ABM and Krakatoa Zones. Each is described in more detail below.

7.2.1 ABM deposit

Cominco originally discovered the ABM deposit in 1994 by following up on anomalous silt and soil samples, as well as a mineralized float, with ground-based geophysics and drilling. BMC has since expanded on Cominco's discovery and now recognizes the ABM deposit as comprising the ABM and Krakatoa Zones, separated by the northeast striking East Fault. Movement on the East Fault appears to have been down and to the right, so that Wind Lake Formation in the Krakatoa Zone is juxtaposed against KZK Formation in the ABM Zone (Figure 13).

The ABM Zone comprises massive sulphide and stringer-style sulphide mineralization primarily hosted within felsic volcanic and directly overlying the chlorite-altered mafic footwall intrusion (MAFi). The ABM Zone appears to consist of just one main lens (named the "ABM lens") that typically coalesces at shallow depth and splits into an upper and lower part further down (see sections in Hughes et al., 2016). There are no other named lenses within the ABM Zone. The ABM lens is up to 39 m thick with a 400 m downdip extent and 700 m strike length (Hughes and Baknes, 2015a). At surface, it strikes ~290° with a ~35° dip to the north. A flexure occurs ~200 m downdip that flattens the dip of the lens to 10-15°. The ABM lens transitions laterally from massive sulphide to semi-massive sulphide on its margins to an intercalated package of volcanic and sedimentary rocks (Hughes and Baknes, 2015a).

The Krakatoa Zone comprises numerous lenses and pods of massive to semi-massive sulphide. The largest and most continuous of these lenses are referred to as the main, lower and upper lenses. The main lens typically occurs within the mafic footwall intrusion (MAFi) or at its lower contact. The upper lens occurs immediately above this mafic unit, in the same stratigraphic position as the ABM lens. The lower lens generally occurs at the base of the mafic footwall intrusion or below it within the underlying felsic volcanic rocks. The mineralized lenses in the Krakatoa Zone are oriented subparallel to the ABM Zone at ~300º/35º NNE. They are commonly concordant with stratigraphy. The Krakatoa main lens has a true thickness of up to 22 m, width of 150 m and downdip continuity of at least 430 m. The width of the mineralized zone is constrained by the East Fault to the west and the Fault Creek Fault to the east. Mineralization extends to the top of bedrock but fails to daylight, as it is buried under 2–30 m of glacial overburden.

The most recent mineral resource estimate for the ABM deposit was completed in November 2016 (BMC Minerals Ltd., 2016) in accordance with the JORC Code (JORC, 2012), and is reported in Table 11.

Sulphide mineralization in the ABM deposit is generally dominated by pyrite with lesser sphalerite, pyrrhotite, galena and chalcopyrite, and gangue minerals that include chlorite, magnetite, quartz, Fe-carbonate, calcite, sericite, cordierite, albite, celsian and barite (Martin, 2015; Townend and Townend, 2015). Mineralized lenses typically occur within an envelope of chlorite and muscovite alteration and are subdivided into massive and semi-massive styles. These mineralization styles are further subdivided into ten end-member "ore" types (Figure 14) based on macroscopic mineralogical and textural features (Hughes and Baknes, 2015b; Hughes and Voordouw, 2017; Hughes et al., 2016; Schultze, 1995).

Table 11: Most recent mineral resource estimate for the ABM deposit

Category	Tonnage *Mt*	Cu *(wt%)*	Pb *(wt%)*	Zn *(wt%)*	Au *(g/t)*	Ag *(g/t)*	Cu metal *(Kt)*	Pb metal *(Kt)*	Zn metal *(Kt)*	Au *(Koz)*	Ag *(Moz)*
ABM Zone											
Indicated	14.6	1.0	1.6	6.1	1.3	132	141.2	229.7	888.9	615.0	62.2
Inferred	0.4	1.5	1.4	4.2	1.0	107	5.5	5.2	15.5	11.6	1.3
Krakatoa Zone											
Indicated	3.7	0.6	3.1	7.2	1.8	211	23.1	116.7	265.9	213.1	25.2
Inferred	0.5	0.8	1.7	8.9	1.2	161	3.7	8.4	43.5	18.7	2.5
ABM deposit (total)											
Indicated	18.3	0.9	1.9	6.3	1.4	148	164.4	346.5	1154.8	828.1	87.4
Inferred	0.9	1.1	1.6	6.9	1.1	138	9.2	13.6	58.9	30.3	3.8

Figure 14: Photos of principal ore types showing (a) OA, (b) OB, (c) OC, (d) OF, (e) OG and (f) OI ore types.

Table 12: Summary of key ore types in the ABM and GP4F deposits

Type	Subcode	Key Features	Description
Massive	OA	MG-rich massive sulphide	Massive sulphide (PY-MG-SP-GL ± CP-PO) with abundant disseminated euhedral medium-grained and/or laminated MG
	OB	MG-free massive sulphide	Wispy, laminate, fine buckshot-textured fine- to coarse-grained massive sulphide (PY-SP-GL ± CP-PO) with trace to no MG
	OC	CP + PO-rich massive sulphide	Net-textured fine- to coarse-grained massive sulphide with 10–50% CP-PO
	OF	PO-rich sulphide	Massive sulphide with >50% PO in addition to MG ± CP-PY-SP-GL
	OG	CP-rich sulphide	Semi-massive to massive sulphide with >30% CP in addition to PO-PY-SP ± GL-MG
	OH	PY-rich massive sulphide	Fine-grained, homogeneous, with >80% PY
	OL	Coarse PY in SP ± PO matrix	Semi-massive to massive sulphide comprising 10–40 % coarse buckshot-textured PY in a SP ± PO-BI matrix; mostly at the GP4F deposit
Semi-massive	OI	Semi-massive sulphide in schistose host rock	20–50% sulphide (PY ± CP-SP-PO-GL) as stringer, disseminations and/or bands in schistose host rock
	OJ	Semi-massive sulphide in proximal altered rock	20–50% sulphide (PY-CP-SP ± PO-GL) as stringer, disseminations and/or bands in proximal (CL-CI) altered host rock
	OK	Semi-massive sulphide with BA-SI gangue	20–50% sulphide as stringer, disseminations and/or bands associated with BA ± SI-CB gangue in proximal (CL-CI) altered host rock
Brecciated	OD	Brecciated Sulphide	Original Cominco code to indicate interpreted sulphide clasts

Massive sulphide forms the bulk of the ABM, Krakatoa main and Krakatoa upper lenses. Pyrite is the predominant sulphide mineral, comprising 60–70% of the mode, and ranging from fine- to coarse-grained and massive to buckshot-textured. The upper parts of the ABM lens are strongly magnetic, containing up to 10% fine- to coarse-grained magnetite as laminar bands and heavily disseminated pods. Magnetite also occurs within the main and upper lenses of the Krakatoa Zone but appears to be absent from the lower lens. Sphalerite forms two distinct types: (1) dark brown sphalerite intergrown with magnetite and (2) red-brown sphalerite occurring as wispy laminations and/or disseminations within pyrite. Galena occurs throughout the ABM and Krakatoa zones as fine- to medium-sized grains. Chalcopyrite is typically minor and occurs as coarse-grained clots, blebs and disseminations. Silica, barite and carbonate gangue are most abundant within the lower portions of both zones, with Krakatoa containing more barite than ABM.

Semi-massive mineralization occurs throughout the ABM deposit but is more restricted and less abundant in the Krakatoa Zone. In the ABM lens, stringer- and disseminated-style mineralization forms a 1–10 m thick halo around massive sulphide mineralization. Additional zones of semi-massive sulphide also occur between arms of the ABM lens, typically associated with strong chlorite ± cordierite alteration. Sulphide mineralogy consists of chalcopyrite + pyrrhotite + pyrite ± sphalerite ± galena with trace magnetite, with Cu typically assaying >2% but ranging anywhere from 0.1–14% Cu. This variability in grade correlates with the textural and mineralogical diversity inherent to this style of mineralization, which ranges from thick chalcopyrite-rich stringers to Cu-poor disseminated sulphide. Grades of Cu, Au and Ag appear to be lower in Krakatoa semi-massive sulphide than at ABM (Duncan and Baker, 2015).

Some intercepts of the Krakatoa main lens preserve the partial replacement of felsic tuff and/or mafic footwall host rock by sulphide, the former typically interleaved with intervals of mafic footwall. These occurrences typically comprise a combination of OB-type ore with relatively high gangue content and OI-type with relic lapilli or ashy groundmass and provide support for a replacement-style origin. The downdip gradation

of the ABM lens into sedimentary and epiclastic rocks likewise suggests that the ABM Zone may have a similar origin (Duncan and Rabb, 2015; Hughes and Baknes, 2015b).

The alteration framework for the ABM deposit is based on the work by Cominco (e.g. Schultze, 2001). Four of the original five original Cominco alteration types were systematically logged in the 2015 and 2016 programs (Table 13). The exception is the weak pyrrhotite alteration (Cominco's "Type 1") that was generally found to be pervasive and lacking in significant variability over decametre scale intervals.

Table 13: Summary of alteration types associated with the ABM deposit

Cominco Classification	Name	Key feature	Comments
Type 1	Weak PO	PO	~1% disseminated PO as foliation-parallel wisps in felsic groundmass
Type 2	Greenish-grey	CL-SE	Greenish-grey alteration possibly related to aphanitic rhyolite (RHYi) intrusions, especially near MAFi; locally obscures sulphide-MAFi contact zones
Type 3	Pervasive MU/SE	MU/SE	Distinctive silvery grey to waxy greyish-yellow-green MU/SE ± disseminated sulphide; usually within 50 m of sulphide mineralization; preferentially developed in felsic volcanic; shows inverse relation with AK alteration.
Type 4	Proximal CL	CL >> MU/SE	Dark green CL typically occurring within <5 m wide of massive sulphide; associated minerals include BI, AK, MG and disseminated PO-CP; also, as stratabound zones marking distal expression of massive sulphide lenses
Type 5	Restricted CI	CI-CL	Spatially associated with proximal CL alteration or as distal stratabound zones extending beyond sulphide; CI forms grey glassy porphyroblasts up to 2 cm in size and hosted within CL-rich matrix; associated minerals include ferroan DO, SI and sulphide

Host rocks of the ABM deposit typically show a penetrative schistosity (S_1), the intensity of which is dependent on host rock type. For example, most of the volcaniclastic rhyolite units (RHYv) exhibit a tightly spaced penetrative foliation whereas foliation within the more coherent rhyolite flow units (RHYc) is more broadly developed between silica- and sericite-dominant domains. Schistosity (S_1) is broadly concordant to lithological contacts (S_0) and is folded about cm-scale tight to isoclinal parasitic folds (F_2) that are common in drill core. F_2 meso-scale folds are difficult to identify in drill core; however, they are recognized in outcrops west of the ABM deposit (Baker et al., 2017; Szybinski, 1996a, b). Within fold hinges, an earlier foliation (S_1) that is concordant to bedding (S_0) is preserved, so that folds are defined by both this primary bedding and early foliation. Along F_2 fold limbs, S_1 foliation and D_2 axial-planar cleavage (S_2) form a coplanar fabric that comprises the dominant tectonic foliation throughout the ABM deposit area.

Schistosity is drag-folded and truncated by brittle faulting along the East and Fault Creek Faults (Baker, 2015b; Baker et al., 2017), as well as smaller structures possibly related to these larger faults. Although no direct age of this faulting exists, it is likely these faults formed during the ~425 km of Eocene dextral slip along the Tintina Fault, which is located about 30 km southwest of the ABM deposit (Baker et al., 2017).

7.2.2 GP4F deposit

The GP4F deposit lies near the southern margin of the Property, about five kilometres southeast of the ABM deposit (Figure 13). It is hosted within an interval of the KZK Formation interpreted to lie stratigraphically below the ABM deposit based on its proximity to the contact between the host KZK Formation and the underlying Fire Lake Formation (Jones, 2016). The GP4F deposit is divided into GP4F, lower and upper zones (Jones, 2016) and then the GP4F lens and lower lens (Hughes et al., 2016). In 2016, however, drilling established predictable continuity of the "lower target" so that it is now upgraded to "lens".

The GP4F lens is the thickest and most continuous part of the deposit and contains 90% of all massive sulphide intercepts. The width of most intercepts falls between 3–20 m, averaging 9.8 m and decreasing to the east with only one (suspect) occurrence in the three drill holes on the eastern-most section (419650E). Strike length ranges from 200–325 m on plan maps 1150 RL to 1250 RL (see Voordouw et al., 2016), respectively, and downdip extents range from 300–400 m on sections 419350E to 500E. The GP4F lens dips an average of 30° towards 025°–030° and is either naturally undulating or gently folded along east-west trending fold axes.

The lower lens lies 20–85 m (average = 45 m) below the GP4F lens and occurs on all six sections. Drilling intercepts range from 0.7–24.0 m in width, average 8.0 m and thicken in the opposite direction of the GP4F lens (i.e. from west to east), averaging 4.9, 9.0 m and 11.8 m on sections 419400E, 500E and 650E respectively. Strike length measures ~200 m on plan map 1250 RL and downdip extents range from 200–300 m on sections 419500E and 650E. The relatively thick lower lens on 419650E, coupled with a paucity of GP4F lens, suggests that the lower lens may become the more important sulphide layer further east.

Table 14: Updated mineral resource estimate for the GP4F deposit

Category	Tonnage	Cu	Pb	Zn	Au	Ag	Cu metal	Pb metal	Zn metal	Au	Ag
	Mt	*(wt%)*	*(wt%)*	*(wt%)*	*(g/t)*	*(g/t)*	*(Kt)*	*(Kt)*	*(Kt)*	*(Koz)*	*(Moz)*
Indicated	1.0	0.2	2.7	5.7	1.0	83	1.6	26.9	56.7	31.3	2.7
Inferred	0.7	0.2	2.4	4.8	2.0	59	1.1	16.4	33.3	43.8	1.3

An updated resource for the GP4F deposit was generated as the result of 2016 work (BMC Minerals Ltd., 2016), and is broadly similar to the inferred resource of July 2015 (Green, 2015b). Both resources are in accordance with the JORC code (JORC, 2012), with the 2016 estimate summarized in Table 14.

Mineralization in the GP4F lens consists of narrow, high-grade, layers of massive sulphide enveloped by stringer- and disseminated-style semi-massive sulphide. Lenses of massive sulphide are similar to the OB ore type at the ABM deposit, with 50–70% massive to buckshot-textured pyrite along with semi-massive to massive bands of sphalerite and/or pyrrhotite. Sphalerite also forms larger blebs whereas galena and chalcopyrite occur mostly as interstitial fillings and disseminated blebs. Some of the better grade intervals in the deposit comprise stacked bands of massive OB-type mineralization, typically ranging from 0.1–0.4 m in width, within an interval of semi-massive OJ-type mineralization. Examples of such intervals include 9.7% Zn, 4.1% Pb, 117 g/t Ag and 1.7 g/t Au over 8.9 m in K98-188, as well as 7.4% Zn, 2.8% Pb, 123 g/t Ag, and 1.0 g/t Au over 4.65 m in K15-306 (Jones, 2016).

More typically, the GP4F and lower lenses consist of stringer- and disseminated-style sulphide mineralization associated with strong chlorite-biotite alteration (Jones, 2016). Modal sulphide abundances range from 5–40% and form blebs, stringers (0.1–1 cm wide) and bands (1–4 cm wide). Sulphide assemblages include sphalerite-dominant, sphalerite-galena and pyrrhotite-pyrite-chalcopyrite, and combinations thereof. There is some evidence of the sulphide overprinting the altered groundmass (Boulton, 2002), suggesting replacement-style mineralization.

The GP4F deposit occurs within a much larger, tabular zone of alteration and weakly disseminated mineralization (Jones, 2016). Alteration in close proximity to the GP4F and lower lenses is similar to the proximal and restricted alteration types associated with the ABM deposit, while also including biotite, garnet (in places Zn-rich) and gahnite (Boulton, 2002). Garnet and gahnite are unreported from ABM. The distinct silvery-grey to waxy yellow muscovite (Type 3) alteration is less pervasively developed at GP4F than at ABM but still shows a mappable spatial association with sulphide mineralization (Hughes, 2016). At GP4F, this so-called “original muscovite” alteration is associated with disseminated pyrite. Other alteration minerals include cordierite and possibly albite (Boulton, 2002), which was widely reported by Cominco as comprising whitish porphyroblasts and vitreous masses, though this is similar to cordierite habits seen at the ABM and GP4F deposits.

There is evidence for brittle faulting in the GP4F area but there appear to be no significant disruptions of the deposit, as it forms a fairly continuous and predictable tabular ore body. The most prominent zone of fault gouge occurs below the deposit and appears to strike 35°/270° N, which is more-or-less parallel to stratigraphy. There are no constraints on the movement direction or offset across this fault. Plan-based interpretations (Voordouw et al., 2016) shows several kinked lithological contacts that could be manifested through 25–35 m of dextral offset along NNE-trending faults. Property-scale airborne geophysical data suggests there is a prominent ENE-trending structure that runs between the GP4F deposit and the R15 deposit to the ESE. This lineament runs broadly parallel to the Fault Creek and East faults in the ABM area and lies 4.0–4.5 km south of the Fault Creek Fault. At this time, however, there is no geological evidence (e.g. drill intercepts, outcrops) that this lineament is related to faulting.

8.0 RESULTS OF THE 2017 WORK PROGRAM

The 2017 KZK Project comprised a multifaceted geology and engineering program. The primary foci of the program were the in pit geotechnical engineering program, infrastructure related geotechnical investigations, exploration/condemnation drilling to the north of ABM, and characterizing the environmental baseline parameters for the project area. The following sections describe significant results from the 2017 program that were available at the time of reporting.

8.1 Construction and Rehabilitation

48 new drill sites and 14 test pits were constructed in 2017, and combined with modifications to existing trails, new total surface disturbance for 2017 totalled 4.23 ha.

All fly drill sites, excepting sites where work was undertaken in October 2017, had sumps buried, timbers removed and stored, and were contoured. October 2017 Fly drill sites had sumps backfilled. All trails not intended for ongoing use were reclaimed, excepting those that were active in October-November.

0.65 ha of land was reclaimed during the 2017 report year. The combined un-reclaimed disturbance from previous years totals 10.083 ha. The trails and sites that were not fully reclaimed in 2017 due to snow/cold weather will be reclaimed and reseeded in the spring of 2018.

8.1.1 Earthworks

Trail construction totalled 5211 m at an estimated width of 4 m. 1597 m of 1.5 m wide lines were also cleared for geophysical work. All sites constructed for skid accessible drilling were re-contoured and reclaimed with sumps backfilled (Figure 15).

Figure 15: Recontoured drill pad K17-444

8.2 Terrain Surveys

Terrain surveys included differential GPS (DGPS) surveys of 2017 collar locations and terrain hazard mapping. Each is described in more detail below.

8.2.1 DGPS survey

Survey measurements of collar locations, using a real time kinematic differential GPS (RTK DGPS), were done during the 2017 field season. Coordinates surveyed in the 2017 field season focused on surveying the 2017 drill hole collars and laying out proposed drill holes.

Seven of the 2017 drill collars (K17-426, 432, 436, 447, 448, 449, and 450) were not surveyed by Challenger as the collar locations were either not marked following completion of drilling or drilling and/or

downhole surveying activities were ongoing during while surveying was taking place. In these cases, the final collar location is an integration of X and Y coordinates derived from handheld GPS, with the Z coordinate corrected to the LiDAR topographic surface.

Results of the RTK DGPS surveys show that the average error between the planned and actual coordinate for each drill hole is 5.6 m for easting, 4.2 m for northing, and 1.8 m for the elevation. The total average offset of planned and actual coordinates is 7.0 m within a range of 0.3 to 46.5 m. However, seven of these drill holes were deliberately moved in order to avoid drilling in proximity to water bodies. Excluding these moved drill pads the total average offset of planned and actual coordinates is 3.69 m within a range of 0.3 to 9.8 m. Overall, collar locations accurately reflect the drill plan.

8.2.2 Terrain hazard mapping

Terrain stability and hazards were mapped over a 64 km^2 study area that encompasses the proposed mine site and its access road from the Robert Campbell Highway. The resulting map and report completed for the KZK Project presents the distribution and characteristics of terrain units, geomorphological processes and hazards within. Observations from more than 300 sites were recorded based on visual reconnaissance during short stops along foot traverses, vehicle-supported access or helicopter fly-overs. A disturbed terrain stability class representing projected conditions in the absence of planned mitigation measures was distinguished from the existing stability class to highlight areas that warrant attention. The assessment of credible risks to the project indicates how planned mitigations can be incorporated to address the site-specific hazards. The entirety of the report and conclusions can be viewed in Appendix F.

8.3 Geological Mapping

8.3.1 Phase I (outcrop mapping)

Mappers completed a total of 70 traverses, covering a total area of approximately 120 km^2. Traverse summaries are presented in Appendix G. Bedrock exposure within the mapped area is very good along ridges but typically poor along slopes and in valley bottoms. In all, nearly 1,500 individual outcrops were located, mapped and described. A map displaying interpreted geology and outcrop locations is presented in Appendix F.

8.3.1.1 Lithology

The Fyre Lake Formation is exposed along the southern boundary of the KZK Property where it is in intrusive contact with Grass Lakes Plutonic Suite. The upper contact of the Fyre Lake Formation appears to be in conformable contact with the overlying Kudz Ze Kayah Formation. Lithologies within the Fyre Lake formation are similar to those of the Wind Lake Formation and include intercalated, metamorphosed, clastic sedimentary (sandstone, siltstone, mudstone) and mafic volcanic (effusive, volcaniclastic) rocks. Rare pyroxenite intrusive bodies occurs within the Fyre Lake Formation.

The Kudz Ze Kayah Formation crops out in an east-west trending band transecting the core of the KZK Property. Rock types (Figure 16) include volcaniclastic, effusive volcanic, and aphanitic intrusive rhyolite, reworked felsic sedimentary rock, carbonaceous mudstone, rare cherty beds and mafic intrusion. The Kudz Ze Kayah Formation is also host to the ABM and GP4F deposits. The volcanic and sedimentary rocks of the Kudz Ze Kayah Formation are distinctly more felsic that the overlying and underlying Wind Lake and Fyre Lake formations, and similar in composition to the Grass Lakes Plutonic Suite (Piercey et al., 2001b). The lack of coarse feldspar phenocrysts and intrusive texture distinguish Kudz Ze Kayah Formation rocks from Grass Lakes Plutonic Suite.

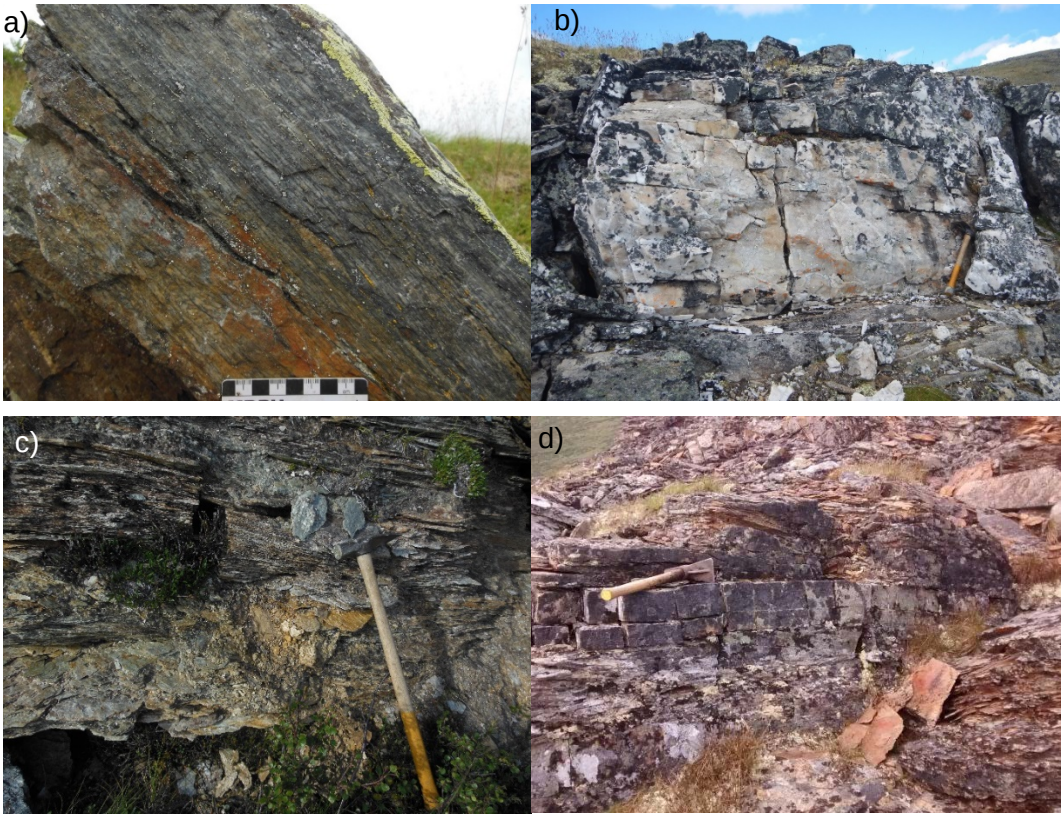


Figure 16: Rocks of the Kudz Ze Kayah Formation: a) Silicic banded coherent rhyolite (RHYc), b) Aphanitic rhyolite (RHYi), c) Strongly foliated volcaniclastic rhyolite (RHYv), d) Intercalated, strongly foliated and blocky volcaniclastic rhyolite (RHYv).

The Wind Lake Formation (Figure 17) underlies the northern portion of the KZK Property, is generally east-west striking and moderately to the north dipping. This formation is comprised of a thick sequence of carbonaceous to locally calcareous mudstone with lesser siltstone, mafic volcanic and volcaniclastic rocks, blue-quartz-bearing grits, conglomerate, psammite, and quartzite (Hughes et al., 2016; Murphy et al., 2006).

Figure 17: Rocks of the Wind Lake Formation: a) Mafic volcaniclastic/epiclastic rocks (MAFt), b) Intercalated mafic volcaniclastic/epiclastic rocks (MAFt) and carbonaceous mudstones (MDS).

A large body of the Grass Lakes Plutonic Suite granite crops out along the southern boundary of the KZK Property and two sills of similar granite occur higher up within the Kudz Ze Kayah Formation. The granitic composition and typically porphyritic texture are characteristic of this suite within the KZK Property (Figure 18). These rocks are interpreted as intrusive and they seem to cut all stratigraphic units on the KZK Property, including the Wind Lake Formation. The Grass Lakes sills are generally concordant to layering in the KZK

Formation. Grass Lakes plutonic rocks appear to be more resistant to weathering and erosion than surrounding host rocks. They commonly form large, protruding and cliff-like outcrops on ridges across the Property.

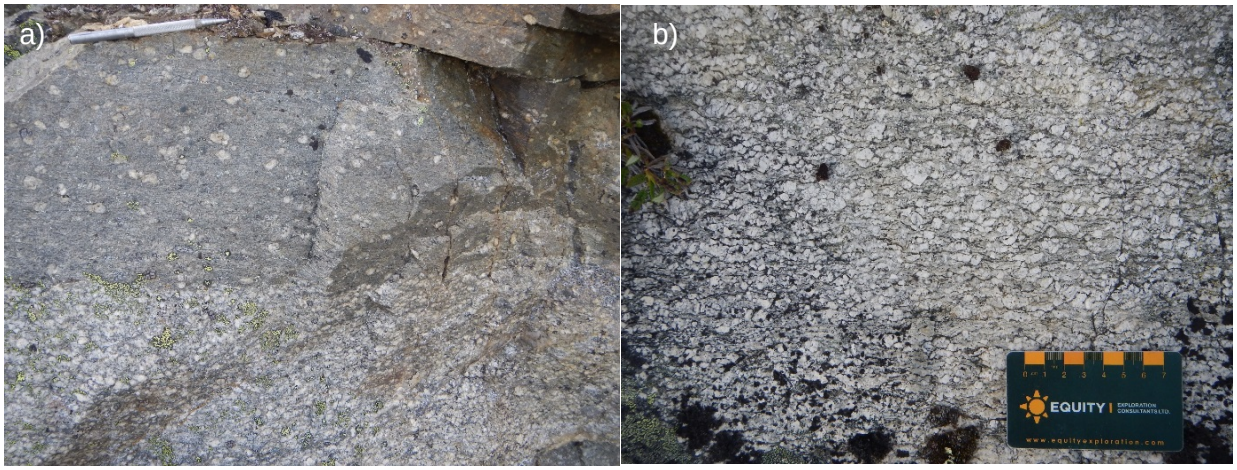


Figure 18: Field photographs of rocks of the Grass Lakes Plutonic Suite: a) Feldspar-phyric granitic sill (GRApor) at the top and phaneritic to feldspar-phyric granite (GRA) below, b) Phaneritic to feldspar-phyric granite (GRA).

8.3.1.2 Structure

Cominco's mapping on the KZK property defined five stages of deformation (Szybinski, 1996a); however, on the basis of the 2017 mapping described in this report, we recognize only three stages of deformation, described below.

S_0 is defined by primary bedding planes and lithological subhorizontal contacts (Figure 19a). A subhorizontal to moderately north- to northeast-dipping, penetrative deformation fabric (S_1) (Figure 19b) overprints all three formations and the Grass Lakes suite on the KZK Property; however, it is best developed in phyllites and fine-grained schists. S_1 is typically subparallel to the original bedding (S_0). The mean S_1 has a dip direction of 007° and a dip of 24.3°, although locally there is a wide range of orientation within mesoscale folds). Note the overlap in distribution with S_0 (Figure 19a).

D_2 structures comprise an S_2 crenulation cleavage defined by fine folds of S_1. This foliation generally strikes similarly to S_1 but is steeper than S_1, dipping moderately to steeply north to northeast (Figure 19c). In local, mesoscale folds, S_1 and S_2 may be oriented at high angle to one another. Development of S_2 crenulations is not uniform – it is highly localized and varies from intense (Figure 20a) to broadly-spaced. Development of S_2 appears to be controlled by rock type and intensity of S_1. More felsic and well foliated (S_1) rocks with abundant sericite tend to exhibit the most intense and finely-developed D_2 crenulations whereas these folds are broader in coarser-grained and less felsic rock. This is consistent with S_2 development in drill core where the best-developed S_2 structures occur within muscovite-alteration halos around massive sulphide whereas coherent rhyolite has not deformed as readily. F_2 folds are typically mesoscale (Figure 20b), south-verging, and appear to fold S_0 and S_1 only locally.

The East and Fault Creek faults are important, ore-bounding, structures associated with the ABM deposit and are modelled in detail by Baker (2016).

Kink bands (S_3) are rare across the Property and defined by cm-scale kinking of the main (S_1) schistosity. Although based on a small subset of data, S_3 planes have two dominant orientations, subvertical with a northwest-southeast strike and subhorizontal (Figure 19d) and all of their hinge lines plunge gently to moderately to the north (Figure 19f). This suggests that these D_3 structures form conjugate sets of kink bands.

There are at least two fault sets on the KZK Property: 1) NNW-SSE trending, down to the west, normal faults and 2) NE-SW trending, down to the south, normal (?) faults, such as the East and Fault Creek faults. Fault set (1) is interpreted from geophysics and apparent offset on interpreted geology (Brauhart et al., 2017) but is otherwise not known from drilling or outcrop. These faults could potentially be syn-depositional growth faults or Tertiary brittle faults, or growth faults re-activated in Tertiary time. Faulting associated with (2) is brittle

in nature, cuts all stratigraphy and may be the result of far-field Tertiary extension. D_3 faults are characterized by fault gouge and fault breccia (Figure 21a) that can be several metres wide (true thickness) based on drill intersections. Outcrop exposures of D_3 are rare due to their recessive-weathering nature but are found in Fault Creek (Figure 21b).

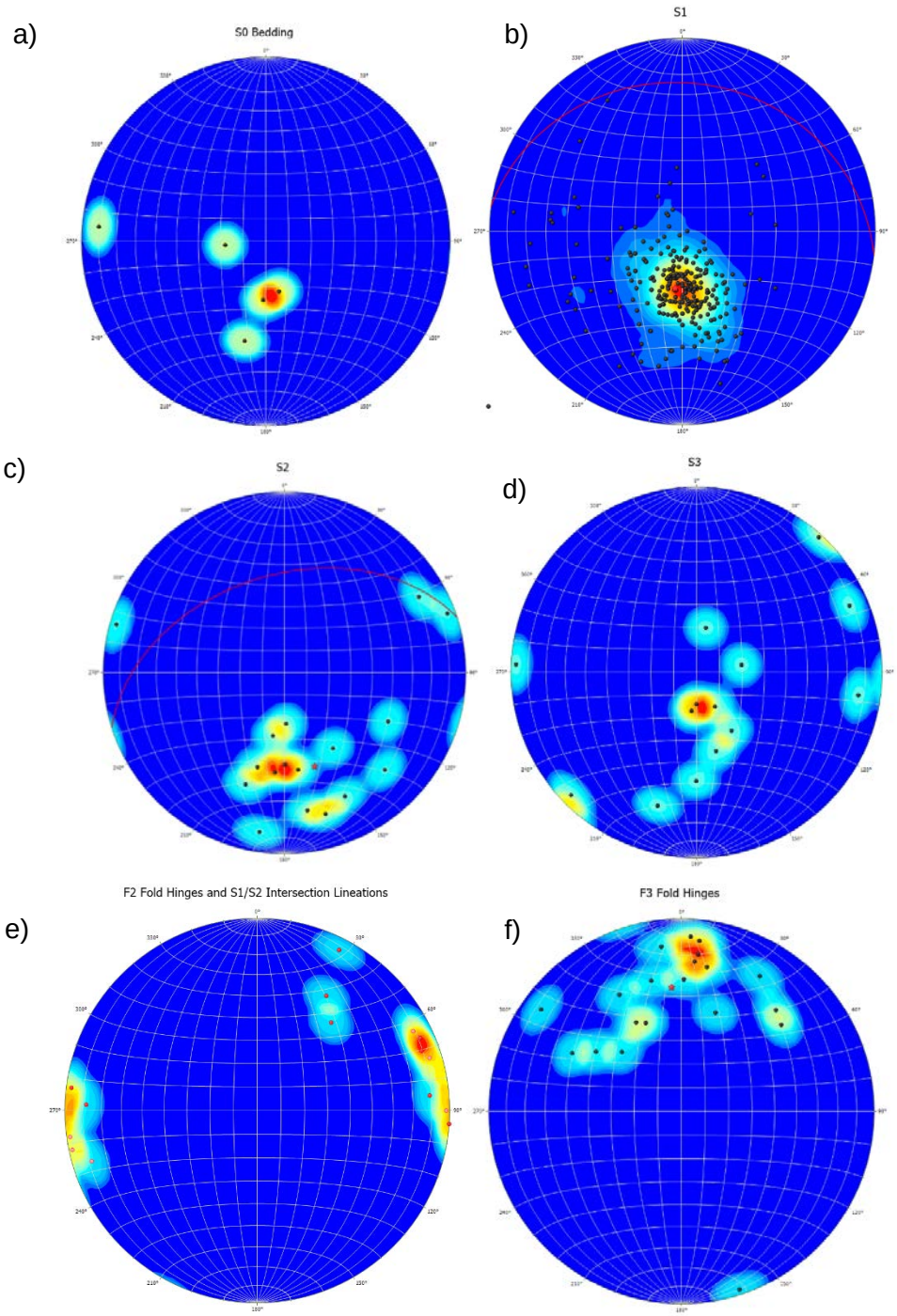


Figure 19: Equal area stereonet plots of structural data collected during the 2017 field mapping program. Data is displayed as contoured poles to planes for planar features and contoured lineations for linear features. a) S_0 (n = 5) b) S_1, the red star marks the mean pole and the red great circle represents the plane perpendicular to the mean pole, which strikes 277° and dips 24° to the north (n = 286) c) S_2, the red star marks the mean pole and the red great circle represents the plane defined by the mean pole, striking 252° and dipping 45° north (n = 17) d) S_3 (n = 14). e) F_2 fold hinge lines and S_1/S_2 intersection lineations (n = 13). Both linear feature sets are parallel, with a spread possibly due to open folding around the F_3 axis. f) F_3 fold hinges. The red star marks the mean orientation of the fold hinges, plunging 36° towards 355° (n = 20).

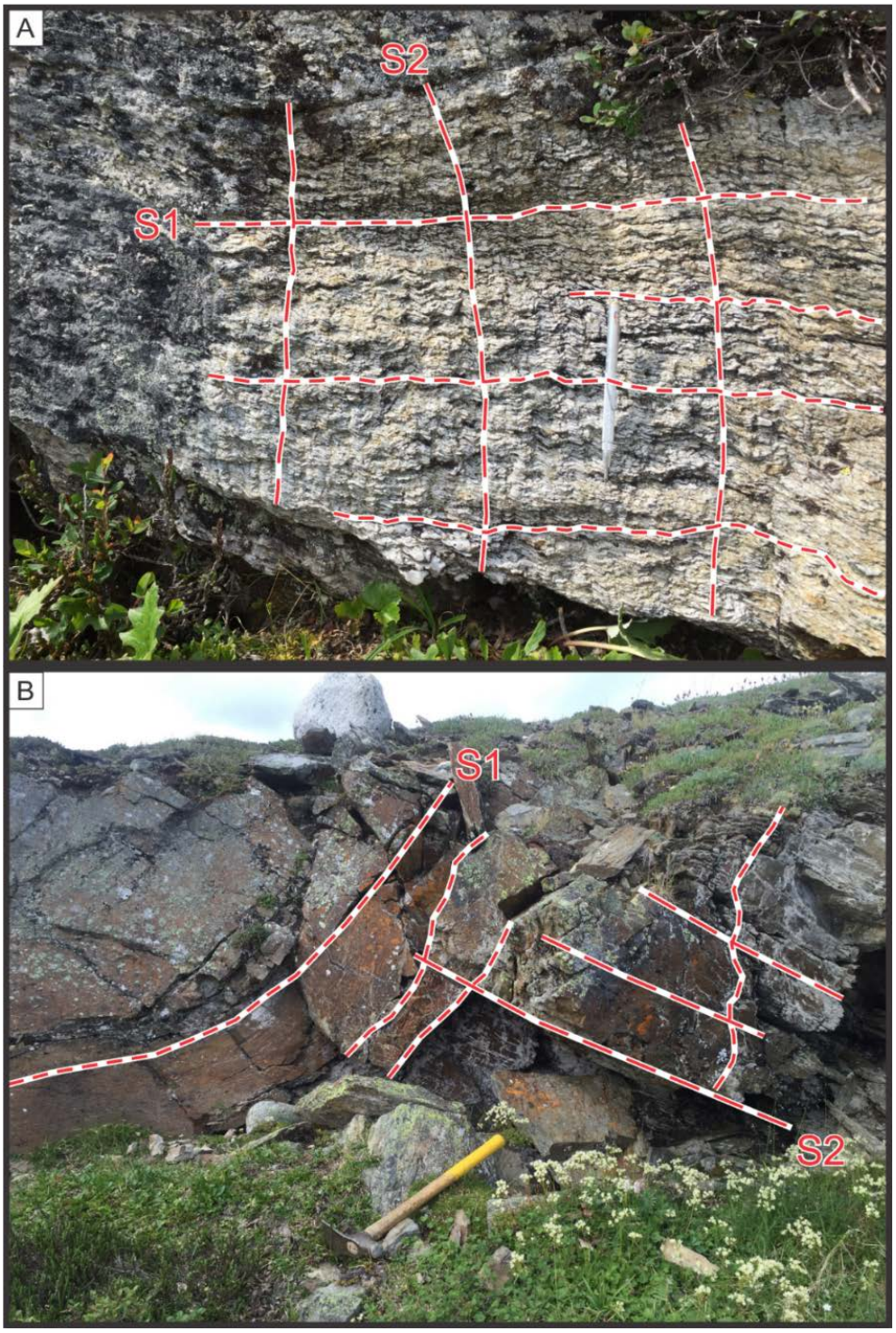


Figure 20: D_2 structures. A) Well-developed S_2 crenulations defined by small asymmetric folds of the main S_1 foliation. B) More widely-spaced F_2 folds of S_1 with a resultant, centimetre-spaced S_2 foliation. View is to the west. Outcrop is located near "Repeater Peak" to the south of the 2017 KZK camp. Fold asymmetry of F_2 folds in both outcrops is consistent with a north-over south (thrust) sense of displacement.

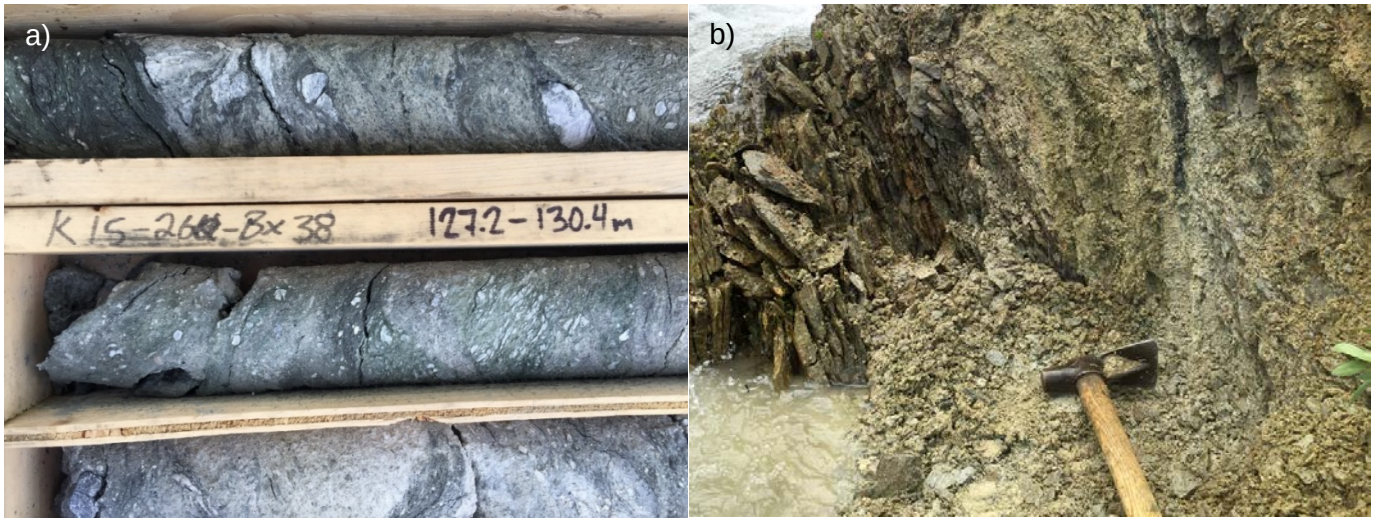


Figure 21: D3 Fault in drill core (a) and outcrop along Fault Creek (b).

8.3.2 Phase II (targeted mapping)

Phase II mapping areas (Figure 22) were investigated and sampled during Phase I mapping (Baker et al., 2017), and identified for further investigation and sampling (Figure 23). The results of this targeted mapping program are summarized below.

8.3.2.1 Fault Creek area

Three and a half days were spent investigating this area. Additional small outcrops and subcrops were found. Due to the general lack of significant outcrop, work subsequently focused on refining geological mapping with nearby outcrops to accurately project the geology through this zone. A total of 13 samples were collected from this area and submitted for geochemical assay.

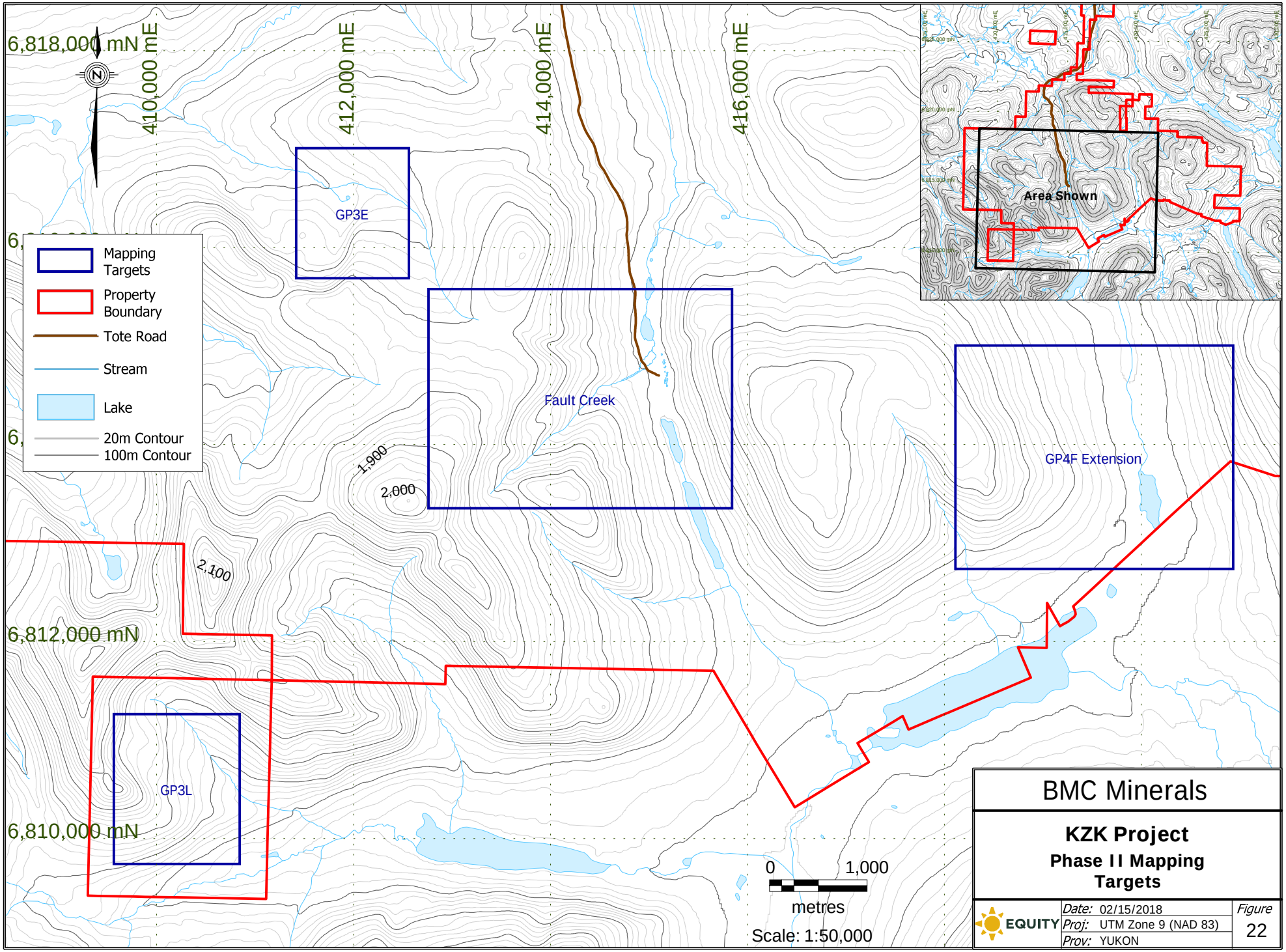
Detailed mapping described a 20 x 175 m band of disseminated sulphide mineralization and strong alteration in this area. Mineralization comprises <1 vol. % disseminations, blebs, lenses, and bands of pyrite ± chalcopyrite along with their weathered equivalents, all of which are typically associated with silica. Alteration consists of strong muscovite + chlorite ± cordierite within a package of volcaniclastic rhyolite, mudstone and mafic intrusion (RHYv, MDS, MAFi). Samples of coherent rhyolite (RHYc) are generally more crystalline whereas aphanitic rhyolite (RHYi) is more glassy and aphanitic.

Ten samples were collected from or nearby the Fault Creek area. Yielding assay results up to 0.14 g/t Au, >10 g/t Ag, 0.5% Cu, 0.1% Pb and 0.5% Zn (Table 15). Two other weakly anomalous samples were collected and include 0.6% Zn from one sample of aphanitic rhyolite as well as 0.01 g/t Au, 1.5 g/t Ag and 2.7 ppm Sb from another one.

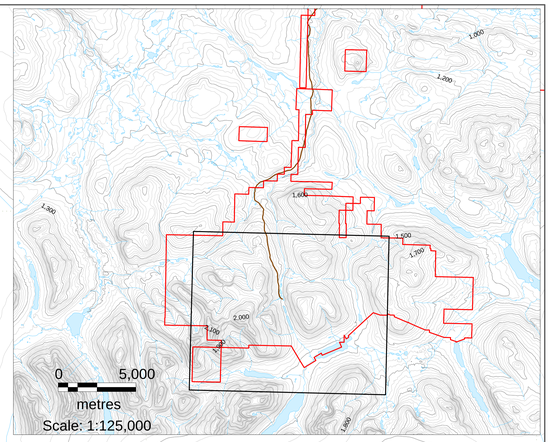
Table 15: Select assay results for grab and float samples collected from or near the Fault Creek area

Sample_ID	Lith1	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Pb_ppm	Sb_ppm	Zn_ppm
D00005943	MAFt	n/d*	<0.02	<1	<0.04	6.5	6.5	0.14	239
D00005878	MAFt	142	>10	349	62.3	5030	871	0.55	4920
D00005866	SLT	<5	0.5	10	0.29	279	7.9	0.09	6260
D00005872	RHYi	8	0.34	8	0.2	1.9	44.8	0.79	13
D00005863	RHYc, RHYi	<5	0.24	6	0.25	1	6.4	0.15	8
D00005864	RHYi	<5	0.12	4	0.17	1.6	5.8	0.44	4
D00005865	RHYi	10	1.47	18	0.19	2.4	42.8	2.72	7
D00005871	RHYi	<5	0.17	11	0.23	1.4	4.1	0.44	6
D00005911	RHYvx	<5	0.07	<1	0.2	2	2.6	0.09	14

*n/d = not determined


6,818,000 mN
410,000 mE
412,000 mE
414,000 mE
416,000 mE
GP3E
Fault Creek
GP4F Extension
GP3L
Area Shown
Mapping Targets
Property Boundary
Tote Road
Stream
Lake
20m Contour
100m Contour
1,900
2,000
2,100
6,812,000 mN
6,810,000 mN
0
1,000
metres
Scale: 1:50,000
BMC Minerals
KZK Project
Phase II Mapping Targets
EQUITY
Date: 02/15/2018
Proj: UTM Zone 9 (NAD 83)
Prov: YUKON
Figure 22

410,000 mE
412,000 mE
414,000 mE
416,000 mE
418,000 mE
6,818,000 mN
6,816,000 mN
6,814,000 mN
6,812,000 mN
6,810,000 mN



0
1,000
metres
Scale: 1:10,000

N

Rock Sample Site
Sample ID
Au ppb, Ag ppm
Cu ppm, Pb ppm, Zn ppm

Tenure and topography
Property Boundary
Tote Road
Stream
Lake
20m contour
100m contour

BMC Minerals

KZK Project

Whole Rock Sample Locations 2017

EQUITY

Date: 02/16/2018
Proj: UTM Zone 9 (NAD 83)
Prov: YUKON

Figure 23

8.3.2.2 GP4F area

Two and a half days were spent in the GP4F area. The area is thickly overgrown and predominantly covered in overburden. Consequently, only a few subcrops were mapped during this investigation.

The sparse outcrop and/or subcrop mapped helped to further constrain the contacts between the Grass Lakes plutonic suite, the KZK Formation, and the Wind Lake Formation. A mafic tuff unit in the west-central portion can be traced for approximately 1.2 km, demonstrating stratigraphic continuity within a portion of the Wind Lake Formation.

To the southeast of GP4F, felsic volcaniclastic rocks were mapped down-slope of the Grass Lakes granite. A blue-quartz eye bearing crystal tuff, similar to the ones associated with the GP4F mineralized horizon, occurs on the contact between the KZK Formation and a feldspar-phyric granite pluton of the Grass Lakes suite. Five samples were taken from or near the GP4F area, none of which returned significant metal values.

Table 16: Assay results for grab samples taken from or near targets in the GP4F area

Sample_ID	Lith1	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Pb_ppm	Sb_ppm	Zn_ppm
D00005923	MDS	n/d*	<0.02	3	0.09	3.5	4.7	0.15	17
D00005924	GRA	n/d*	<0.02	<1	0.1	2.3	19.2	0.1	47
D00005925	GRA	n/d*	<0.02	<1	<0.04	1.1	4.8	<0.05	35
D00005927	GRA	n/d*	<0.02	1	0.24	7.3	7.7	0.06	42
D00005932	MAFt	n/d*	<0.02	<1	0.17	3.3	17	0.09	12

*n/d = not determined

8.3.2.3 Tour Cirque (GP3E) Area

A half-day was spent investigating this area, which is mostly covered with thick overburden and vegetation. A small outcrop of mafic tuff was found in a creek bank on the northwest side of the GP3E target area, interpreted to comprise part of the Wind Lake Formation. Two samples were taken from just south of the GP3E target, none returned significant metal values.

Table 17: Assay results for grab samples taken from or near the GP3E target

Sample_ID	Lith1	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Pb_ppm	Sb_ppm	Zn_ppm
B00267756	MAFt	<5	0.02	14	<0.02	8.6	4	<0.05	143
D00005955	MAFt	n/d*	0.06	15	<0.04	6.1	4	0.21	123

*n/d = not determined

8.3.2.4 GP3L

One and a half days were spent mapping and sampling in and around the GP3L area although, due to a paucity of outcrop in the target area, more time was spent mapping to the north of the target. The GP3L area comprises a package of mudstone and pelite that is overlain by felsic volcaniclastic and intruded by pyroxenite and Grass Lakes Intrusive Suite felsic porphyry. An outcrop of pyroxenite lies approximately on-trend with historical drill hole K96-171 and was previously used to explain the GP3L gravity anomaly (Schultze and Hall, 1997b). Three samples were taken from the GP3L target area, none of which returned any significant metal values.

Table 18: assay results for grab samples taken from or near the GP3L target

Sample_ID	Lith1	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Pb_ppm	Sb_ppm	Zn_ppm
D00005877	MDS	7	0.31	11	0.27	54.5	1.4	0.12	49
D00005946	GRA	n/d*	<0.02	2	0.17	3.3	18.6	<0.05	21
D00005947	MAFw	n/d*	0.29	<1	<0.04	169	4.5	0.78	98

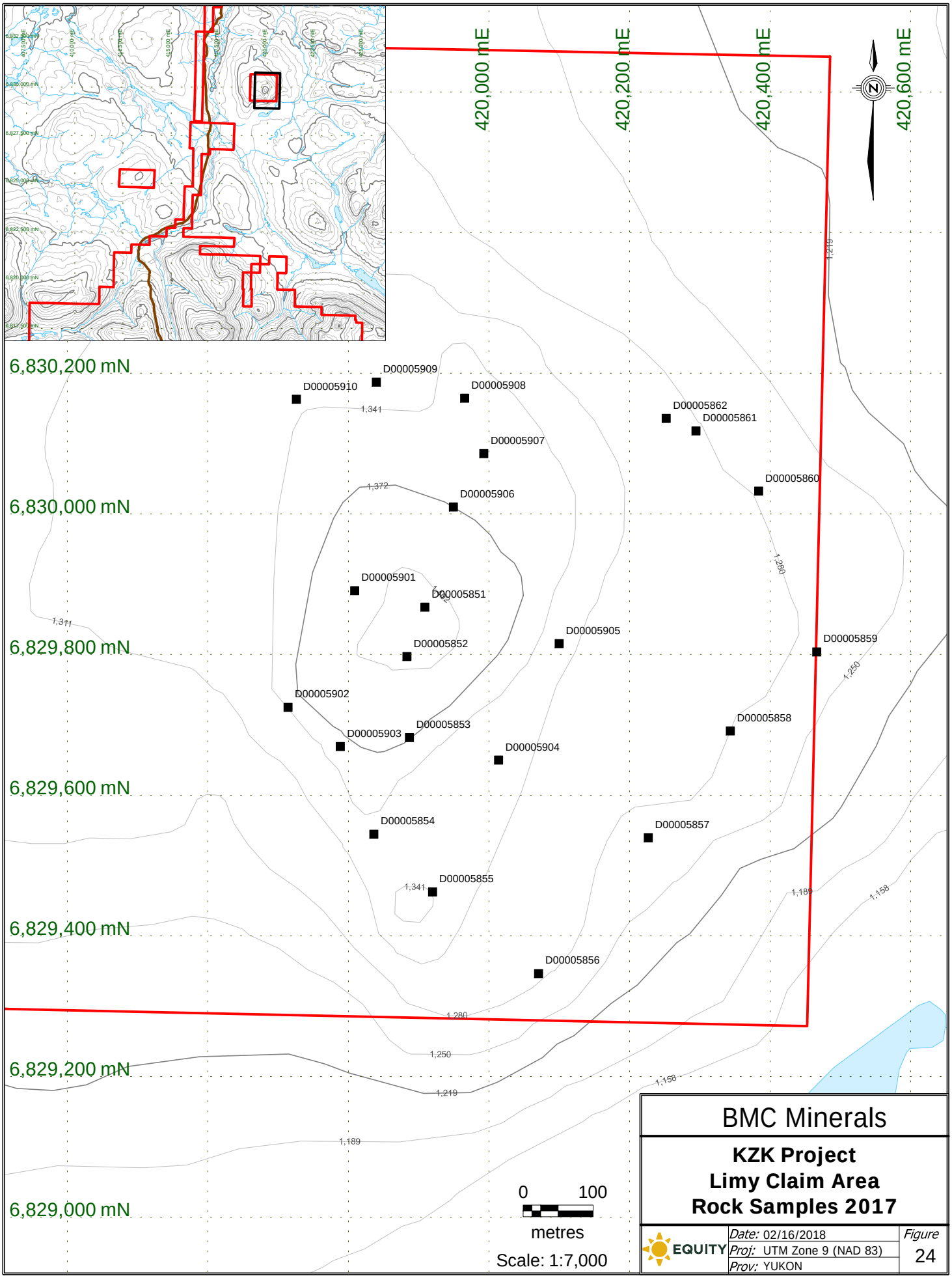
8.3.3 Limestone prospecting on Limy claims

To test the geochemical continuity of limestone in the Limy claims, 22 representative grab samples were collected for whole-rock geochemical analysis (Figure 24). Table 19 is a full list of the samples, locations, and rock types. Table 20 summarizes specific gravity measurements done at KZK Camp.

Field observations and geochemical analyses indicate that the limestone is uniform with high $CaCO^3$ and low $MgCO^3$ content, as well as low concentrations of deleterious elements (Table 21) but varying degrees of recrystallization and crinoid fossils in several locations. The limestone exhibits no obvious impurities except for weak Fe-staining and trace Mn-oxides. Late fracturing and small (<2 mm) calcite veins are present throughout the unit, with two ~20 cm-wide calcite veins observed in the southernmost portion of the claims. There were also no dikes or other geological heterogeneities observed in the mapped extent of the limestone unit, except for those listed above.

Table 19: List of samples collected for whole-rock geochemical analysis

Sample ID	UTM East	UTM North	Sampler	Sample Type	Area	Lithology	Comments
D00005851	419908.7	6829867	RHulstein	grab	Limy	LST	grey weathering light grey fractured limestone. Strike 005/dip 80 within possible bedding
D00005852	419883.2	6829797	RHulstein	grab	Limy	LST	No obvious bedding or joints, fractured, minor lim - Fe stain, on frac surfaces in weakly brecciated (m scale) zone
D00005853	419886.9	6829682	RHulstein	grab	Limy	LST	Minor brx and coarse calcite filling, no obvious structures
D00005854	419836.1	6829545	RHulstein	grab	Limy	LST	Weakly brecciated and healed with coarse calcite nd very minor Fe stained calcite.
D00005855	419919.7	6829462	RHulstein	grab	Limy	LST	minor coarse calcite veining. crinoid plates noted
D00005856	420070.6	6829346	RHulstein	grab	Limy	LST	LST, Minor calcite veining
D00005857	420226.7	6829539	RHulstein	grab	Limy	LST	clean limestone
D00005858	420343.5	6829691	RHulstein	grab	Limy	LST	LST and calcite veining (<10%).
D00005859	420466.2	6829804	RHulstein	grab	Limy	LST	minor irregular calcite veinlets and Fe color on fractures
D00005860	420383.5	6830032	RHulstein	grab	Limy	LST	grey fine-med grained limestone - as previous samples
D00005861	420294.5	6830118	RHulstein	grab	Limy	LST	LST
D00005862	420252.2	6830136	RHulstein	grab	Limy	LST	LST
D00005901	419808.9	6829891	MManor	grab	Limy	LST	Limestone
D00005902	419714	6829725	MManor	grab	Limy	LST	Massive limestone with calcite veins, crinoids?
D00005903	419788.3	6829669	MManor	grab	Limy	LST	massive limestone with minor calcite veins
D00005904	420013.5	6829650	MManor	grab	Limy	LST	coherent to f gr crystalline limestone
D00005905	420099.8	6829815	MManor	grab	Limy	LST	limestone with calcite veins and crinoids
D00005906	419949.3	6830010	MManor	grab	Limy	LST	massive limestone
D00005907	419992.6	6830086	MManor	grab	Limy	LST	limestone with calcite veins
D00005908	419965.3	6830165	MManor	grab	Limy	LST	Limestone with minor calcite veins and crinoids
D00005909	419839.7	6830187	MManor	grab	Limy	LST	bioclastic limestone - crinoids
D00005910	419726	6830163	MManor	grab	Limy	LST	Limestone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D00005901
D00005851
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1,250
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metres
Scale: 1:7,000
BMC Minerals
KZK Project
Limy Claim Area
Rock Samples 2017
EQUITY
Date: 02/16/2018
Proj: UTM Zone 9 (NAD 83)
Prov: YUKON
Figure
24

Table 20: Specific gravity (SG) measurements on Limy Claim samples

Sample	Dry (g)	Wet (g)	SG (g/cm3)	Rock Type
D00005901	752	470	2.67	Limestone
D00005902	1622	1019	2.69	Limestone
D00005903	2110	1320	2.67	Limestone
D00005904	925	579	2.67	Limestone
D00005905	959	600	2.67	Limestone
D00005906	920	578	2.69	Limestone
D00005907	721	453	2.69	Limestone
D00005908	1081	677	2.68	Limestone
D00005909	1288	800	2.64	Limestone
D00005910	764	471	2.61	Limestone
D00005851	824	518	2.69	Limestone
D00005852	874	550	2.70	Limestone
D00005853	1071	673	2.69	Limestone
D00005854	909	568	2.67	Limestone
D00005855	807	506	2.68	Limestone
D00005856	829	519	2.67	Limestone
D00005857	652	411	2.71	Limestone
D00005858	968	607	2.68	Limestone
D00005859	873	546	2.67	Limestone
D00005860	875	549	2.68	Limestone
D00005861	963	605	2.69	Limestone
D00005862	655	409	2.66	Limestone
Average			**2.68**	
Standard Deviation			**0.02**	

Table 21: 2017 Rock sample assay results, Limy Claim

	CaO (%)	LOI (%)	CaCO3 (%), calculated	MgO (%)	As (ppm)	Cd (ppm)	Pb (ppm)	Sb (ppm)
Detection Limit	0.01			0.01	1	0.02	0.5	0.05
D00005851	55.4	43.2	98.6	0.46	<1	2.13	1.1	0.33
D00005852	55.5	43.4	98.9	0.45	2	2.24	0.7	0.18
D00005853	55.8	43.5	99.3	0.41	1	1.96	1	0.34
D00005854	55	43.1	98.1	0.36	1	1.29	1	0.29
D00005855	55.3	43	98.3	0.42	2	0.89	0.8	0.14
D00005856	52.3	40.8	93.1	0.45	<1	0.98	1.2	0.15
D00005857	55.5	43.3	98.8	0.47	<1	0.91	0.6	0.11
D00005858	55.2	43.3	98.5	0.66	2	0.8	0.9	0.15
D00005859	54.8	42.8	97.6	0.47	<1	0.85	1.2	0.12
D00005860	54.7	42.8	97.5	0.53	3	2.63	0.8	0.14
D00005861	55.8	43.5	99.3	0.39	<1	1.93	1.1	0.13
D00005862	55.6	43.4	99	0.36	<1	2.3	1.4	0.2
D00005901	55.6	43.4	99	0.43	<1	1.91	0.9	0.55
D00005902	55.4	43.1	98.5	0.52	<1	0.81	1.2	0.36
D00005903	55.3	43	98.3	0.4	1	1.52	0.7	0.24
D00005904	55.7	43.3	99	0.41	<1	1.91	0.9	0.16
D00005905	55.9	43.4	99.3	0.35	<1	0.89	1.2	0.1
D00005906	55.9	43.2	99.1	0.4	1	3.65	0.9	0.15
D00005907	51.2	43.3	94.5	3.64	<1	2.22	2.5	0.36
D00005908	55.3	43	98.3	0.47	2	1.89	1.4	0.14
D00005909	54.8	42.6	97.4	0.45	<1	0.97	1.7	6.75
D00005910	55.6	43.5	99.1	0.43	<1	1.5	1.2	0.12

Full assay results can be found in Appendix I.

8.4 Soil Sampling

Results are described below for field sampling of soils on the KZK Property during the 2017 season, as well as the QA/QC procedures used to verify the quality of the data.

8.4.1 Field sampling

A total of 2491 unique sites were sampled as part of the 2017 soil program out of the proposed 2834, equal to 88% of all planned sites (Figure 5, 6, 7). Out of the 343 planned sites that were not sampled, 242 were low priority samples that were cancelled, and another 101 samples were skipped because they were located on excessively steep or wet terrane.

Out of the 2491 soil samples collected, 2394 were collected on the KSW grid and 97 were collected on three orientation lines across the ABM and GP4F deposits. Field descriptions record 2484 of these samples as B-horizon, five as C-horizon and two as Ah. There is no difference in the texture or colour of B- and C-horizon soils, and so these are considered the same. Ah samples, on the other hand, average more organic with less pebbles and sand.

All four samplers describe the predominant soil colour as “brown” followed by “grey”, “black” and “red brown” or “orange” (Table 22). Brown soils consist mostly of silt, organic and pebbles whereas grey soils contain higher proportions of clay, and black has more organic. The “rusty” soils (red brown, orange) contain the least amount of organic material. Black and grey soils were typically taken at greater depth (21 cm) than brown and rusty soils (14-17 cm), possibly because samplers were digging deeper in search of more typical brown soil.

The bulk of soil samples were taken in “alpine” (82%) with the balance taken in “brush” (15%), talus (2%) and swamp (<1%). The texture of samples taken in alpine and brush settings are very similar whereas those taken from talus have more sand (average 24%) and pebble (21%). Samples taken from swamp have more organic (32%).

Within the B-horizon group there are 420 samples that contain ≥30% organic material, with 166 of these containing ≥40% and 34 containing ≥50% organic. Of the 34 samples with ≥50% organic, the proportion of black soils (24%) is significantly higher than the proportion among all 2491 samples.

Moisture content was recorded for 1810 of the 2491 sample sites, with 4% of these sites described as water saturated or “wet”. Wet samples also correlate weakly with increased organic.

Table 22: Summary of selected field descriptions of KZK soil samples, organized by sampler

Sampler	Samples	Clay%	Silt%	Sand%	Pebbles%	Organic%	Black	Brown	Grey	Rusty*
JL	439	6%	68%	3%	8%	16%	6%	76%	17%	1%
MH	686	2%	67%	6%	12%	14%	10%	61%	24%	5%
MB	902	1%	53%	13%	18%	14%	0%	98%	1%	1%
SP	464	1%	52%	4%	21%	22%	0%	99%	0%	1%
All Soil JL-MH	1125	3%	67%	5%	10%	15%	8%	67%	21%	3%
All Soil MB-SP	1366	1%	53%	10%	19%	16%	0%	99%	1%	1%
All Soils	2491	2%	59%	8%	15%	16%	4%	84%	10%	2%

*Rusty soils include those described as “orange” and “red brown”

8.4.2 QAQC of soil geochemical data

Forty-four blank samples were submitted and assayed. A failure threshold of 10x detection limit (*dl*) returned no failures for the Ag, Au, Cu, Pb or Zn, nor many other elements. Exceptions include Ce and Y, which averaged blank/*dl* equal to 21 and 13 respectively, However, the low ratio of standard deviation to mean (1.04 ± 0.14 ppm Ce, 0.66 ± 0.05 ppm Y) suggests that this blank material inherently contains 1.0 ppm Ce and 0.7 ppm Y.

Blank sample D00007260 returned 2.38 ppm Mo against a *dl* of 0.05 ppm, and a blank average of <*dl*. The Ce content is also 40% higher (1.43 ppm) than average. Related soil samples, however, lack Mo enrichment and so no follow-up work was done.

Seventy-four field duplicate samples were submitted and analysed, with 95% of the data showing an average percent difference of 29% for all elements. This lies just inside of the 30% threshold considered "acceptable" (SGS Mineral Services, 2005). For elements of interest, 90% of duplicate As, Au, Bi, Cu, Pb, Sb and Zn pairs returned a mean percentage difference of ≤30%, as well as 89% of Ag pairs and 86% of Hg.

Duplicate pairs for most elements show correlation (ρ) >0.9 for >95% of the population, with several key elements (Ag, As, Hg, Sb) showing ρ>0.9 for a slightly lower proportion of 90-95%. Correlation for gold, on the other hand, is exceptionally low (ρ=0.06) and includes two poorly reproduced assays of 116 ppb and 55 ppb Au, and numerous pairs that assayed at or near detection.

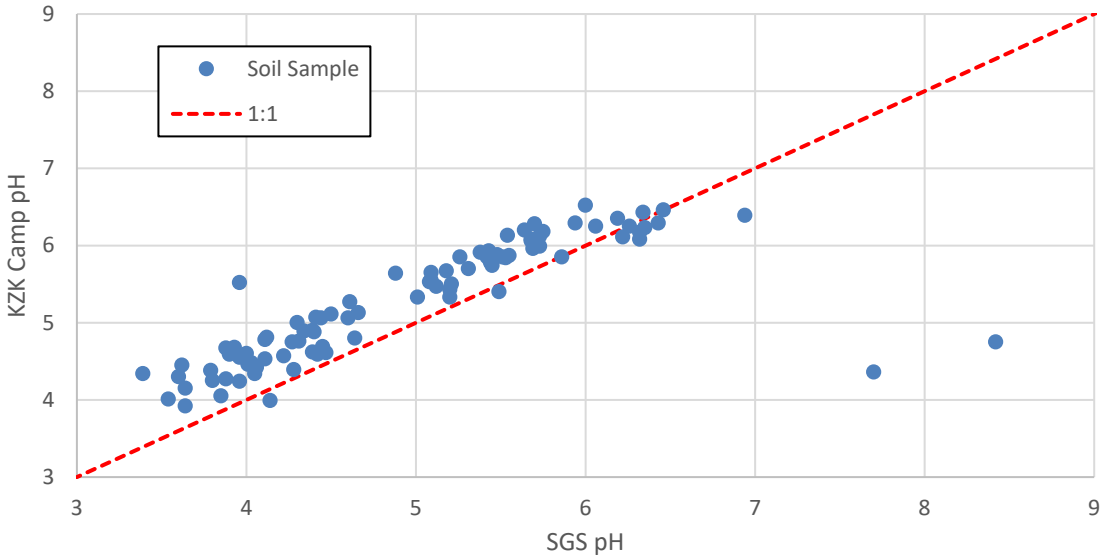


Figure 25: Comparison of pH readings taken at SGS against those taken at KZK Camp.

Ninety-two umpire pH measurements done at SGS show ρ = 0.76 with KZK Camp data for 100% of the duplicates, and ρ = 0.92 for 96% of the data. The KZK Camp measurements average pH 0.4 higher than SGS (Figure 25); possibly, this is related to different water volume in the soil paste. The KZK Camp readings are therefore reliable but should be levelled when plotted with other pH data sets.

The pH analysis of 34 "gravel pit" standards, using the PT2, returned an average pH of 6.7 with a standard deviation of 0.4. Analysis of the same material with the Oakton pH meter, on the other hand, returned a mean and standard deviation of 8.3 ± 0.5. This discrepancy was recognized at KZK Camp and so all samples analysed with the Oakton were re-analyzed with the PT2. Analyses of the pH of standard solutions shows that 96% of the data has an accuracy of ±0.2.

8.4.3 Orientation line constraints

The three orientation lines sampled as part of the 2017 KZK program are north-south trending, with sample spacing of 25 m over the projected exposure of sulphide deposits, and 50 m spacing further away. Two of these lines cross the ABM Zone (ABM Central, ABM West) and a 3rd crosses the GP4F deposit.

The ABM Central line consists of 51 samples taken over 1800 m and runs down the axis of the Geona Creek valley and through the heart of the ABM definition drill area. The ABM deposit reaches the top of bedrock underneath till-covered site D00007869 (2650 ppm Zn, 188 ppm Pb, 81 ppm Cu, 2.6 ppm Ag, 25 ppb Au). From there the line extends 850 m north along the down-dip extent of the ABM Zone, and 950 m south for a low angle pass across the Krakatoa Zone. Nearly the entire line returned >90th percentile Zn, Pb, Ag, Cd, Hg

and W along with slightly weaker Cu and As. Gold and Bi are both enriched across most of the line except for the southern-most part. Tin (Sn) is enriched in the central part of the line whereas thallium exceeds the 90th percentile from 0-200 m south of the projected exposure. Barium is, surprisingly, non-anomalous, likely because aqua regia does not digest barite, the main repository of Ba associated with sulphide. There is no notable drop in pH across the ABM and Krakatoa zones, although there are intervals of high IDH (i.e. calcite concentration) located just south of the Krakatoa Zone and immediately above the down-dip terminus of the ABM Zone.

The ABM West orientation line consists of 16 samples taken about 250 m upslope from the ABM Central line and runs across the western tip of the ABM Zone and drilling area. Consequently, there is significantly less chance of contamination and geochemical enrichment from up-hill sources in comparison to the ABM Central line. Silver, Sb, Hg Sn and W are elevated along most of the line, whereas Zn, Cu, Pb, Au, As, Cd, Tl and low pH are most anomalous 0-200 m south of the projected surface exposure. Like the ABM Central line, IDH is highest above the down-dip end.

GP4F is a 1.7 Mt VMS deposit that is predominantly enriched in zinc and Pb. The orientation line extends 335 m south (and downhill) of the projected surface exposure and 625 m to the north (and uphill) to cover the down-dip extent. Zinc, Pb, Ag, Au and several pathfinder elements are elevated for 0-200 m south and downhill of the projected exposure. Tin and tungsten both show strong enrichment over most of the line. Relatively low pH extends for 350 m north of the surface exposure and 100 m south. Weak IDH anomalies occur ~200 m south and ~600 m north of the surface exposure.

8.4.4 Elemental anomalies

The massive sulphide mineralization of ABM, Krakatoa, and GP4F are strongly enriched in Cu, Pb, Zn, Ag, and Au. Thus, studying the enrichment of these elements in soil may help to vector toward other VMS style mineralization at KZK. The definition of an anomalous sample is presented below as are the locations of anomalous concentrations these individual elements.

Anomalous lead is characterized by the 93rd percentile of 88 ppm. Large multi-sample anomalies occur in the south-eastern and south-central portions of the soil grid (Figure 26). As well, there are many smaller and single point anomalies throughout the grid.

Anomalous copper is characterized by the 93rd percentile of 78 ppm. Large multi-sample anomalies occur in the south-eastern and south-central portions of the soil grid (Figure 26). Additionally, many smaller and single point anomalies throughout the grid.

Anomalous zinc is characterized by the 93rd percentile of 451 ppm. Large multi-sample anomalies occur in the south-eastern portion of the soil grid (Figure 26). As well, many smaller and single point anomalies throughout the grid.

Anomalous silver is characterized by the 93rd percentile of 0.69 ppm. Large multi-sample anomalies in the south-eastern portion of the soil grid (Figure 26). Additionally, many smaller and single point anomalies throughout the grid.

Anomalous gold is characterized by the 98th percentile of 0.015 ppm. No large multi-sample gold anomalies exist. However, many smaller and single point anomalies throughout the grid.

Soil sample certificates of analysis and QA/QC report can be found in Appendices M and N, respectively.

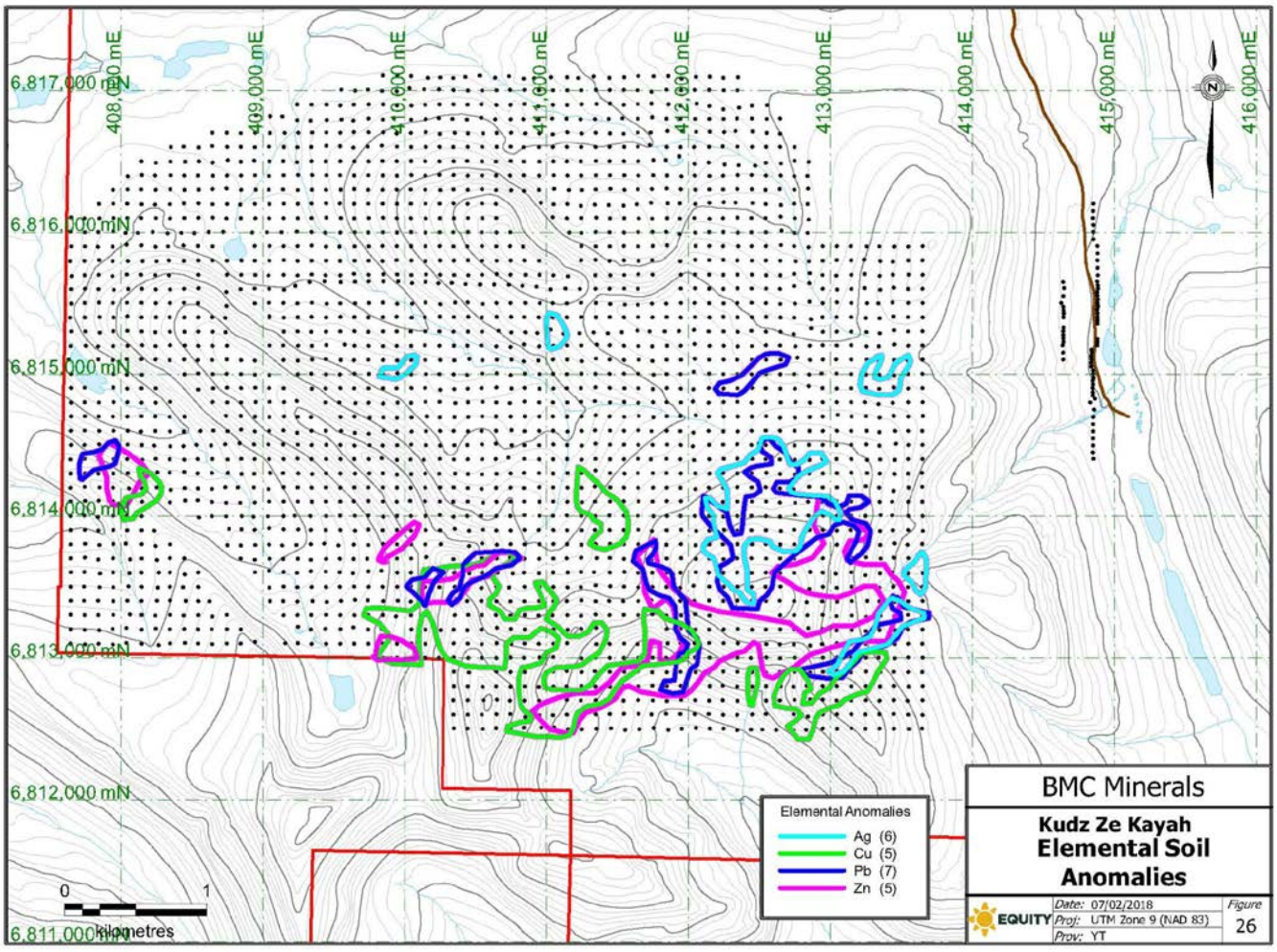


Figure 26: Outline of soil anomalies of Cu, Pb, Zn, Ag, and Au.

8.5 Geophysical Surveys

Geophysical work done in 2017 consists of surface EM survey and a borehole EM (BHEM) surveys. This work is summarized below.

8.5.1 Surface EM

A Fixed Loop Transient Electro-Magnetic (FLTEM) survey was conducted at the KZK property by Discovery International Geophysics. The purpose of the survey was to target a potential down-dip extension of the ABM deposit. The survey consisted of two 2000 m x 1500 m loops and encompassed a combined survey length of 32.90 line-km. Results from the survey are included within a report written by the contractor and attached as Appendix O.

8.5.2 Borehole EM (BHEM)

Borehole EM (BHEM) surveys were completed in three drill holes from within the 2017 FLTEM survey area (K17-447, K17-448, K17-449) to continue evaluating the postulated down-dip extension of the ABM deposit mineralization (Discovery International Geophysics Inc., 2017). BHEM surveys can typically detect conductors lying within ~100–150 m of the drill hole and thus the BHEM program was complementary to the surface FLTEM program. All of the BHEM surveys were completed successfully with no loss of data. Results from the surveys are included in the contractor report attached as Appendix O.

8.5.1 Acoustic impedance study

The 2017 acoustic impedance testing program was completed on nine drill holes, with a total of 1008 individual samples recorded. The program consisted of rock property testing on historical drill core followed by a numerical simulation of a proposed seismic survey based on a synthetic model of the ABM deposit produced through the combination of the results from the rock property testing with a geological cross-section of the ABM deposit. Average rock property measurements are presented in Table 23 below.

Table 23: Acoustic impedance data from the 2017 testing program

Lithology	Velocity (m/s)	Density (kg/m^3)	AI (kg/m^{2}s)	Measurement count	σ (AI)
Mudstone	2830	2.75	7.783	115	2.51
Rhyolite	3350	2.74	9.179	389	2.34
Massive Sulphide	4640	4.25	19.72	11	3.04
Mafic	3770	2.84	10.707	238	3.59

Full results can be found in Appendix P.

8.6 Exploration Drilling

The 2017 drilling program included exploration drilling, to the north of and within the ABM, to test for down-dip extensions of ABM or other massive sulphide lenses at the same stratigraphic horizon. These holes were also used for Bore-hole Electromagnetic testing (BHEM; see section 8.5.2 for results) and acoustic impedance measurements (see section 8.5.3 for results).

8.6.1 Collar and downhole surveys

All drill pads were constructed based on collar location spotted with a handheld GPS. All 4 exploration holes were surveyed downhole using a Reflex EZ-Gyro probe. A total of 134 measurements were collected at approximately 30 m spaced survey sites downhole. Of these 134 measurements 109 were “optimized” and 25 were “standard”. Additionally, 18 EZ-shot measurements were collected on K17-447.

8.6.2 Core orientation

A total of 282 oriented structural measurements were collected from the exploration drill holes. Features measured included foliations (214), veins (37), contacts (18), crenulation cleavages (5), bedding (4), and shear zones (4).

Fifty-nine lock angles were recorded, with mixed results. Twenty-eight of these lock angles indicate good agreement between the two orientation marks, lining up to within 10 degrees (β) of one another. However, ten of the lock angles measured 10-25 degrees (β) difference between core orientation marks and twenty-one additional orientation line measurements disagreed by greater than 25 degrees.

8.6.3 Geotechnical and petrophysical measurements

The average core recovery from the exploration drilling of 96.6% are similar to 2016 drilling at ABM (97.4%). As well, RQDs of 79.4% are almost identical to 2016 drilling at ABM (79.3%). The average measured bulk density of unmineralized silicate rocks is 2.78 g/cm^3, semi-massive sulphide (OI and OJ style mineralization) is 2.89 g/cm^3, and massive sulphide is 4.23 g/cm^3. These bulk density values are typical of the host rocks, and mineralization at ABM.

8.6.4 Exploration drilling geology

Exploration drilling consisted of 4 drill holes, 3 downdip of ABM (K17-447, K17-448, and K17-449) and one within ABM (K17-450), totalling 2451 m. One approximately 1 m zone of semi-massive pyrrhotite + chalcopyrite was observed in K17-447. As well, an intercept of the ABM lens was encountered in K17-450.

Table 24: Exploration Drill Holes

DDH ID	Easting	Northing	Azimuth (grid north)	Elevation (m.a.s.l.)	Total Depth (m)
K17-447	415055	6816226	173.34°	1380	452
K17-448	415452	6817253	176.47°	1420	1017
K17-449	414691	6817002	175.74°	1420	800
K17-450	414789	6815649	179.12°	1404	182

Drilling due north of ABM (K17-447) intersected an upper package of intercalated mudstones and mafic volcanic rocks (Wind Lake Formation), hosting a narrow zone of semi-massive sulphides from 50.12 to 51.29 m depth. A middle zone of felsic volcanic rocks, mudstone, and conglomerate was intersected. The bottom of the drill hole intersected another package of intercalated mudstone, conglomerate, and mafic tuff, similar to the Wind Lake Formation.

The two drill holes furthest north of the ABM deposit (K17-448 and K17-449) encountered similar geology, primarily consisting of intercalated mudstones, fine grained sediments, and mafic volcanic rocks (Wind Lake Formation) with lesser feldspar porphyritic rhyolitic dykes. No significant zones of alteration or mineralization were observed in these drill holes.

Drilling within the ABM deposit (K17-450) encountered typical KZK stratigraphy observed in the ABM deposit. The hanging wall to the ABM mineralization consists of intercalated felsic volcaniclastics, coherent rhyolites, pelites, and mafic dykes. The mineralization zone consists of18.47 m (147.17 to 165.64 m) of massive sulphide. The direct footwall of the massive sulphide consists a mafic intrusive (MAFi). Strong muscovite alteration is observed for approximately 20 m above the massive sulphide, with strong proximal chlorite ± cordierite locally within the massive sulphide.

Table 25: Selected composites from the 2017 KZK drill program

DDH ID	From	To	Length	Cu	Pb	Zn	Ag	Au	Lens/Target
	(m)	*(m)*	*(m)*	*(%)*	*(%)*	*(%)*	*(g/t)*	*(g/t)*	
K17-450	147.17	165.64	18.47	1.33	1.85	8.83	131.65	1.47	ABM

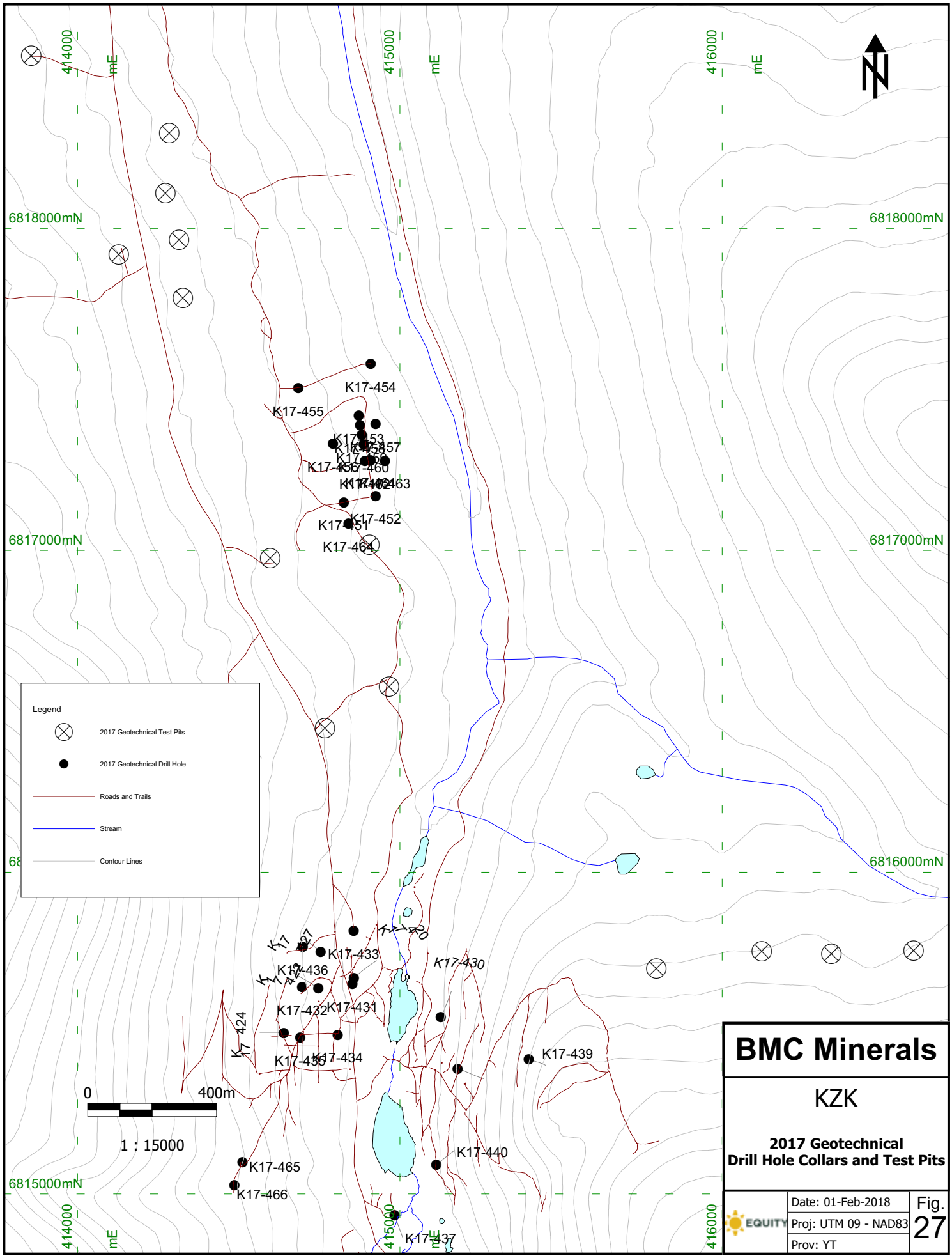
8.6.5 Geochemical sampling and assay

Twenty-eight samples from exploration drilling were submitted for whole-rock geochemical analysis.

A total of 152 samples were collected from drill core for geochemical assay. These were submitted with 10 CRM samples, and 9 blank samples for a total of 171 samples assayed. All blanks passed QA/QC. One CRM failed QA/QC due to poor Au accuracy. All affected samples over a threshold of 100 ppb Au were re-assayed and passed QA/QC on re-assay. All other CRMs passed QA/QC. All final results are considered accurate and free of contamination. Assay results from the exploration drilling are provided in Appendix S. A report on QA/QC for the 2017 drill program is available in Appendix T.

8.7 Geotechnical Investigations

Geotechnical investigations through the 2017 program included test pitting and drilling in support of the proposed mine site design, drilling and geotechnical core logging to characterize both Krakatoa and ABM rock quality for mine planning, hydraulic conductivity testing, as well as optical and acoustic televiewer surveys. Each of these programs is summarized below and data is included as Appendix R (Geotechnical Drill Data) and Appendix U (Televiewer Logs). A map showing the proposed infrastructure, test pits and geotechnical drill collar locations is presented as Figure 27.


414000 mE
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K17-451
K17-464
K17-433
K17-436
K17-430
K17-432
K17-431
K17-424
K17-434
K17-435
K17-439
K17-440
K17-465
K17-466
K17-437
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2017 Geotechnical Test Pits
2017 Geotechnical Drill Hole
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Drill Hole Collars and Test Pits
EQUITY
Date: 01-Feb-2018
Proj: UTM 09 - NAD83
Prov: YT
Fig. 27

8.7.1 Infrastructure geotechnical program

Five holes for 191.61 m were drilled to investigate the geotechnical characteristics of the proposed waste rock storage sites One hole for 40.62 m was drilled to investigate the geotechnical characteristics of the proposed run of mine (ROM) pad. Three holes for 116.25 m were drilled to investigate the geotechnical characteristics of the proposed sites for material stockpiles. Six holes totalling 30 m were drilled for Stand Pipe installations. Four holes totalling 163.25 m were drilled to investigate the proposed water management pond.14 holes for 370.8 m were drilled to investigate the geotechnical characteristics of the proposed mine site, consisting of 12 diamond drill holes, and two ODEX holes. Two holes were drilled to investigate the geotechnical characteristics of the e for the proposed paste plant. Total meterage of the 2017 infrastructure program including one abandoned hole was 937.7 m.

Table 26: 2017 infrastructure drill holes

Hole	Target	Length (m)	Azimuth (°)	Dip (°)	OVBN (m)	SPT	Packer	Installations
K17-421	Waste Rock Storage	40.65	000	-90	0.6	-	3	10 Node Thermistor String
K17-423	Waste Rock Storage	40.79	000	-90	0.4	1	3	10 Node Thermistor String
K17-425	Waste Rock Storage	40.82	000	-90	1.3	1	3	10 Node Thermistor String
K17-426	Waste Rock Storage	28.9	000	-90	6.5	5	3	None
K17-426B	Waste Rock Storage	40.48	000	-90	6.5	-	-	10 Node Thermistor String
K17-428	Run of Mine Pad	40.62	000	-90	10.5	5	3	Standpipe Piezometer
K17-429	Ore Stockpile	36.08	000	-90	2.0	5	3	Standpipe Piezometer
K17-431	Open Pit	4.14	000	-90	3.0	5	-	Standpipe Piezometer
K17-432	Open Pit	4.27	000	-90	1.2	4	-	Standpipe Piezometer
K17-433	Open Pit	4.57	000	-90	3.2	5	-	Standpipe Piezometer
K17-434	Open Pit	3.57	000	-90	2.5	4	-	Standpipe Piezometer
K17-435	Open Pit	8.65	000	-90	4.5	7	-	Standpipe Piezometer
K17-436	Open Pit	4.27	000	-90	2.0	4	-	Standpipe Piezometer
K17-441	Overburden Stockpile	40.19	000	-90	6.5	5	3	10 Node Thermistor String
K17-442	Overburden Stockpile	39.98	000	-90	4.8	4	3	10 Node Thermistor String
K17-443	Water Management Pond	38.5	000	-90	8.0	6	3	Standpipe Piezometer
K17-444	Water Management Pond	43.97	000	-90	13.5	6	3	Vibrating Wire Piezometer
K17-445	Water Management Pond	41.12	000	-90	11.0	8	3	Vibrating Wire Piezometer
K17-446	Water Management Pond	39.66	000	-90	7.5	5	3	10 node Thermistor String
K17-451	Mill	11.12	000	-90	6.4	4	-	None
K17-452	Mill	40.53	000	-90	3.7	3	-	2.5" Sch. 40 PVC for downhole seismic to 40.3 m.
K17-453	Mill	11.3	000	-90	2.6	3	-	None
K17-454	Mill	11.19	000	-90	5.5	4	-	None
K17-455	Mill	12.8	000	-90	3.8	3	-	None
K17-456	Mill	11.21	000	-90	3.7	3	-	None
K17-457	Mill	11.29	000	-90	5.5	4	-	None
K17-458	Mill	41.3	000	-90	2.6	2	-	2.5" Sch. 40 PVC for downhole seismic to 41.3 m.
K17-459	Mill	41.3	000	-90	2.2	3	-	2.5" Sch. 40 PVC for downhole seismic to 39.8 m.
K17-460	Mill	40.55	000	-90	2.5	2	-	2.5" Sch. 40 PVC for downhole seismic to 40.5 m.
K17-461	Mill	42.8	000	-90	4.7	4	-	2.5" Sch. 40 PVC for downhole seismic to 39.3 m.
K17-462	Mill	42.8	000	-90	3.1	3	-	2.5" Sch. 40 PVC for downhole seismic to 41.8 m.
K17-463	Mill	12.22	000	-90	7.4	5	-	None
K17-464	Mill	40.39	000	-90	3.4	2	-	2.5" Sch. 40 PVC for downhole seismic to 18.0 m.
K17-465	Mill	10.62	000	-90	1.4	1	-	None
K17-466	Mill	15.05	000	-90	4.55	1	-	None
35 Holes		**937.7**				**127**	**36**	

Two samples from the infrastructure drilling were collected from drill core for geochemical assay, comprising 2 core samples. Both samples contained 1-5 % logged sphalerite. Assay results from the infrastructure drilling are provided in Appendix S.

14 test pits were excavated under the direction of Knight Piésold within the proposed waste rock storage areas, run-of-mine pad, and ore stockpile area. All test pits were backfilled and recontoured after use.

Table 27: 2017 geotechnical test pits

Pit ID	Target	Depth	Depth to Bedrock	Depth to Groundwater	Comments
TP17-01	Waste Rock Storage	2.5	1.4	-	Easy excavation, walls sloughing
TP17-02	Waste Rock Storage	1.1	0.4	-	Difficult excavation due to boulders and bedrock. Small ice lenses present at ~40 cm
TP17-03	Waste Rock Storage	1.8	0.4	-	Easy excavation, small ice lenses present at ~20 cm
TP17-04	Waste Rock Storage	0.8	0.6	-	sloughing walls, small ice lenses from ~30 to 60 cm
TP17-05	Waste Rock Storage	1.4	0.6	-	Stable walls, small ice lenses from ~15 to 60 cm
TP17-06	Waste Rock Storage	0.8	0.4	-	Test pit exposed for one day prior to logging, stable walls.
TP17-07	Waste Rock Storage	2	1.3	1.5	Test pit exposed for two days prior to logging, stable walls, groundwater filled to 1.5 m
TP17-08	Waste Rock Storage	3	-	0.6	Groundwater seep at base of topsoil (60 cm), walls sloughing below seep.
TP17-09	Run of Mine Pad	1.8	-	-	Test pit exposed for one day prior to logging, stable walls.
TP17-10	Ore Stockpile	1.4	-	-	Test pit exposed for five days prior to logging, stable walls.
TP17-11	Waste Rock Storage	4.4	-	-	Easy excavation, stable walls, no ice, no groundwater.
TP17-12	Waste Rock Storage	4.9	1.7	1.5	Easy excavation, groundwater seep at 1.5 m, minor sloughing around seep, no ice.
TP17-13	Waste Rock Storage	3	1.35	-	Excavation difficult in bedrock, stable walls, no ice, no groundwater.
TP17-14	Waste Rock Storage	5	-	3	Easy excavation, seeps at 3 and 4.5 m, walls sloughing around seeps.

8.7.2 In pit geotechnical drilling

Nine holes, for 1540 m were drilled on the proposed open pit for the geotechnical program. Geotechnical holes were geologically logged by Equity geologists. Further detailed geotechnical logging and sampling was completed by Dempers and Seymour Pty Ltd. of Perth, WA (Dempers and Seymour).

Table 28: 2017 in-pit geotechnical drill holes

Hole	Target	Length (m)	Azimuth (°)	Dip (°)	OVBN (m)	SPT	Packer	Installations
K17-420	Open Pit High Wall	200	050	-60	4.47	-	-	None
K17-422	Open Pit High Wall	221	300	-60	2.8	-	-	None
K17-424	Open Pit High Wall	170	280	-60	4	-	-	None
K17-427	Open Pit High Wall	152	315	-60	4.22	-	-	None
K17-430	Open Pit High Wall	182	025	-60	7.7	-	-	None
K17-437	Open Pit High Wall	152	160	-60	26.1	-	-	None
K17-438	Open Pit High Wall	191	110	-60	4.94	-	-	None
K17-439	Open Pit High Wall	120	110	-60	7.7	-	-	None
K17-440	Open Pit High Wall	152	050	-60	4.2	-	-	None
9 Holes		**1540**				**0**	**0**	

Five of the nine drill holes encountered significant known mineralization of the ABM or Krakatoa sulphide lenses. A total of 77 samples were collected from drill core for geochemical assay in these mineralized zones, comprising 69 core samples, 4 CRMs, and 4 blanks. All CRMs passed QA/QC. 1 blank failed QA/QC for contamination, all samples between the contamination source and the blank were re-assayed and passed QA/QC on re-assay. All other blanks passed QA/QC. All final results are considered accurate and free of contamination. Assay results from the in-pit geotechnical drilling are provided in Appendix S.

Four of the nine drill holes intersect significant fault zones, particularly the East and Fault Creek faults. These fault zones are characterized by large zones of low RQD, fault gouge, and cataclastic rocks.

Geotechnical characterization of these zones is very important in open-pit high wall development. A summary of the fault zones intersected in the in-pit drilling can be found in Table 29 below.

Table 29: Significant fault structures intersected by in-pit drilling

Drillhole ID	Significant Fault Structure	From (m)	To (m)	Drill Width	RQD*
K17-420	Northwest Fault	128	129.5	1.5	30%
K17-422	Northwest Fault	136.6	143	6.4	39%
K17-430	Northwest Fault (?)	117.4	118.1	0.7	7%
K17-437	Fault Creek Fault	94.31	127.15	32.84	25%
K17-438	East Fault	124.3	149.3	25	9%
K17-440	Krakatoa A Fault	71.15	74.3	3.15	33%

*RQD measurements are of averages of 3 m drill run intervals containing fault intercepts

A down-hole optical and acoustic televiewer survey was conducted as part of the in-pit geotechnical investigation administered by Dempers & Seymour. The survey was limited to the in-pit drill holes and was completed between June 21st and July 27th, 2017. A total of 8 holes and 1388 m was surveyed with one additional hole abandoned due to in situ collapse of the walls of the drill hole. Examples of the optical and acoustic images produced by the televiewer survey are shown in Figure 28.

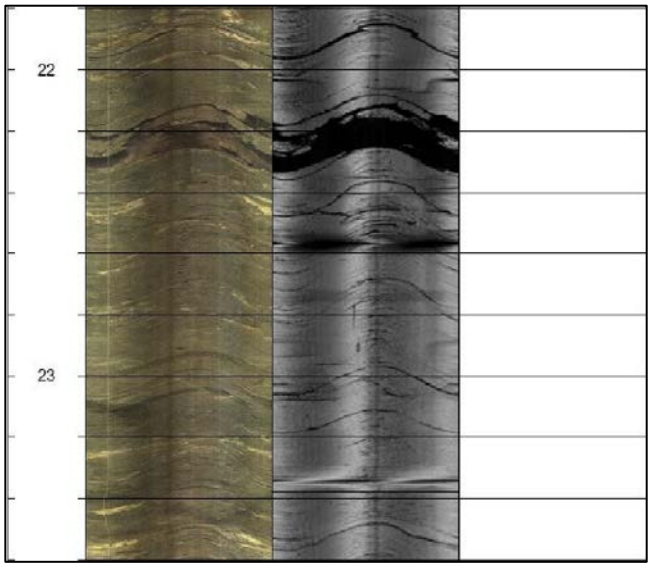


Figure 28: Example optical (left) and acoustic (right) images produced by the televiewer survey. Pictured is hole K17-427 from 21.80 m to 23.60 m depth

For optimal results, the optical survey requires either clear water, or a dry borehole. Five of eight optical televiewer surveys were successfully completed, while three were of sub-optimal quality due to turbid groundwater in the hole. The acoustic televiewer survey is not affected by groundwater turbidity, however only works when submerged in water. All eight of the completed acoustic surveys were of good quality below the water table. A summary of the optical televiewer results is presented in Table 30.

Products delivered to BMC following the survey, and analysis by Dempers and Seymour include the raw images and orientation data from each survey, as well as WellCAD processed logs for each hole (Appendix U).

Table 30: Televiewer survey outcomes for 2017

Hole ID	Surveyed Depth (m)	Survey Outcome
K17-420	198	Complete
K17-422	219	Complete (Turbid water)
K17-424	170	Complete (Turbid water)
K17-427	152	Complete
K17-430	180	Complete
K17-437	152	Abandoned
K17-438	137	Complete (Turbid water)
K17-439	119	Complete
K17-440	148	Complete

8.8 Hyperspectral Imaging Study

TerraSpec analysis of the selected drill holes provided 3629 unique spectral readings, with 3330 of these spectra returning one or more minerals identified from the TSA spectral library and 299 interpreted as aspectral.

White mica minerals dominate the identified spectra due to their ubiquity within the host rhyolite and high reflectance. Of the 3330 valid mineral identifications, 2422 contain white micas (i.e. phengite, muscovite, muscovitic illite, phengitic illite) as their primary mineral. Of the 2422 mineral identifications, 1943 were singleton IDs.

Chlorite occurs in many of the analyses with valid mineral identifications, with 839 containing chlorite as their primary or secondary mineral. It is common within the mafic footwall intrusion (or MAFi), proximal-altered rhyolite and the Wind Lake Formation although its low reflectance means that it is likely underrepresented in the spectral data.

Fifty-eight of the valid mineral identifications contain carbonate (calcite, ankerite, siderite, dolomite) as their primary identified mineral. All identified minerals and the number of spectra from which the identifications were made are summarized in Table 31. Mineral groupings used for interpretation, along with their abundance, are shown in Table 32.

Table 31: Summary of minerals identified in the processing of rock spectra

Row Labels	Count of Min1 sTSAS	Count of Min2 sTSAS
Actinolite	4	20
Alunite-NH	0	11
Ankerite	14	74
Biotite	53	38
Calcite	31	31
Chlorite-Fe	61	32
Chlorite-FeMg	517	208
Chlorite-Mg	1	20
Diaspore	0	20
Dickite	3	11
Dolomite	6	13
Epidote	1	13
Gypsum	0	8
Hornblende	4	23
Kaolinite-PX	1	10
Kaolinite-WX	21	34
Montmorillonite	2	19
Muscovite	447	68
MuscoviticIllite	25	9
NULL	0	2314
Paragonite	1	1
Phengite	1909	250
PhengiticIllite	40	5
Phlogopite	6	30
Prehnite	0	1
Riebeckite	0	5
Serpentine	0	1
Siderite	10	53
Tourmaline	1	1
Tourmaline-Fe	7	3
Vegetation-Dry	0	1
Zoisite	1	3
Total	3330	3330

Table 32: Mineral groupings used for analysis and their abundance

Group	Min 1 USED	Min 2 USED	Count
Valid identifications			
Amphibole	Hornblende, actinolite, riebeckite	n/a	14
Biotite	Biotite, phlogopite	Biotite, phlogopite	90
Carbonate	Ankerite, calcite, dolomite, siderite	n/a	51
Chlorite	Chlorite-Fe, Chl FeMg, Chl Mg	Chlorite-Fe, Chl FeMg, Chl Mg	839
Epidote	Epidote	n/a	1
Kaolinite	Kaolinite-WX	n/a	21
White Mica	Muscovite, phengite, PhengiticIllite, MuscoviticIllite	NULL	1943
Smectite	Montmorillonite	n/a	2
Tourmalines	Tourmaline, Tourmaline-Fe	Tourmaline, Tourmaline-Fe	12
Dickite	Dickite	Dickite	14
Alunite-NH	Alunite-NH	Alunite-NH	11

8.9 Hydrogeological Investigations

Hydraulic conductivity testing was completed during drilling on twelve drill holes from the infrastructure geotechnical program. In total, 35 packer tests were conducted in these twelve drill holes. Results of this testing are summarized in Table 33 below. Hydraulic conductivity testing was also undertaken on in-pit geotechnical drill holes; results are pending.

Table 33: Measured hydraulic conductivity in infrastructure program drill holes

Hole ID	Collar Elevation (masl)	From (m)	To (m)	Hydraulic Conductivity (m/s)
K17-421	1484	3.9	12.22	$2.00x10^{-5}$
K17-421	1484	10.83	25.93	$<1.00x10^{-8}$
K17-421	1484	24.9	40.65	$1.00x10^{-7}$
K17-423	1476	4.04	16.79	$7.00x10^{-6}$
K17-423	1476	16.04	28.79	$1.00x10^{-7}$
K17-423	1476	28.04	40.79	$1.00x10^{-7}$
K17-425	1431	7.07	18.32	$2.00x10^{-7}$
K17-425	1431	16.07	30.32	$9.00x10^{-8}$
K17-425	1431	29.57	40.82	N/A (Artesian Conditions)
K17-426	1439	7	18.25	$4.00x10^{-6}$
K17-426	1439	17.5	28.75	$6.00x10^{-7}$
K17-426	1439	28	40.75	$3.00x10^{-5}$
K17-428	1396	11.37	19.62	$9.00x10^{-5}$
K17-428	1396	18.87	28.62	$4.00x10^{-6}$
K17-428	1396	27.87	40.62	N/A (Artesian Conditions)
K17-429	1407	6.83	15.08	$8.00x10^{-7}$
K17-429	1407	14.33	25.58	$3.00x10^{-7}$
K17-429	1407	23.33	36.08	$5.00x10^{-6}$
K17-441	1444	11.29	18.97	$1.00x10^{-7}$
K17-441	1444	14.67	29.39	$2.00x10^{-5}$
K17-441	1444	29.21	40.19	$1.00x10^{-7}$
K17-442	1443	5.84	17.48	$2.00x10^{-5}$
K17-442	1443	17.3	29.48	$7.0x10^{-8}$
K17-442	1443	29.3	39.98	$2.00x10^{-8}$
K17-443	1351	11.32	19	$2.00x10^{-6}$
K17-443	1351	17.32	29.5	$2.00x10^{-6}$
K17-443	1351	29.32	38.5	$3.00x10^{-7}$
K17-444	1347	16.79	24.47	$3.00x10^{-6}$
K17-444	1347	22.79	33.47	$2.00x10^{-6}$
K17-444	1347	31.79	43.97	$8.00x10^{-7}$
K17-445	1334	13.94	23.12	$2.00x10^{-6}$
K17-445	1334	22.94	32.12	$1.00x10^{-7}$
K17-445	1334	31.9	41.1	$6.00x10^{-8}$
K17-446	1345	10.98	23.16	$2.00x10^{-7}$
K17-446	1345	22.98	32.16	$5.00x10^{-7}$
K17-446	1345	31.98	39.66	$4.00x10^{-6}$

The 2017 hydrogeological installation program was designed to expand on the baseline work done in 2016 around the proposed mine site. Holes drilled for hydrogeological investigation were also used for geotechnical work and infrastructure. In total, 13 holes were drilled as part of the hydrogeological program, comprising 512 m of drilling. All planned holes were successfully completed, and while it was necessary to abandon K17-426, the hole was subsequently completed as K17-426B. Completed holes were installed with Stand pipe piezometers, vibrating wire piezometers, and thermistor strings (Table 33). A summary list of hydrogeological drill holes is presented below in Table 34.

Table 34: Overview of drilling done for the 2017 hydrogeological investigation

Hole	Target	Length (m)	Azimuth	Dip	Installation
K17-421	Waste Rock Storage	40.65	360	-90	10 Node Thermistor String
K17-423	Waste Rock Storage	40.79	360	-90	10 Node Thermistor String
K17-425	Waste Rock Storage	40.82	360	-90	10 Node Thermistor String
K17-426	Waste Rock Storage	28.9	360	-90	Abandoned
K17-426B	Waste Rock Storage	40.48	360	-90	10 Node Thermistor String
K17-428	Run of Mine Pad	40.62	360	-90	Stand Pipe Piezometer
K17-429	Ore Stockpile	36.08	360	-90	Stand Pipe Piezometer
K17-441	Overburden Stockpile	40.19	360	-90	10 Node Thermistor String
K17-442	Overburden Stockpile	39.98	360	-90	10 Node Thermistor String
K17-443	Water Management Pond	38.5	360	-90	Stand Pipe Piezometer
K17-444	Water Management Pond	43.97	360	-90	Vibrating Wire Piezometer
K17-445	Water Management Pond	41.12	360	-90	Vibrating Wire Piezometer
K17-446	Water Management Pond	39.66	360	-90	10 Node Thermistor String

9.0 DISCUSSION

The following sections provide some discussion on the results of the 2017 KZK work program, presented in the same order as the above sections. Summaries for 2017 program elements and recommendations for future work are presented in Section 10.0.

9.1 Geological Outcrop Mapping

9.1.1 Relative and absolute timing

The Wind Lake and Fyre Lake Formations may represent ambient sedimentation and mafic volcanism in the region, which was locally interrupted by felsic volcanism of the Kudz Ze Kayah Formation. Coeval with the Kudz Ze Kayah and Wind Lake Formations are Devonian-Mississippian (360±1 Ma) (Murphy et al., 2006) peraluminous K-feldspar porphyritic to megacrystic granitoids of the Grass Lakes Plutonic Suite (MGg and MGag of Murphy (2006), which are inferred to be subvolcanic feeders (Piercey et al., 2003).

9.1.2 Metamorphism and deformation

The mapping from 2017 suggests that, contrary to the interpretation of Szybinski (1996a, b), S_0 is generally well-preserved and does not appear to have been subjected to significant dismemberment or transposition.

A subhorizontal to moderately steep north to northeast dipping, locally folded, bedding parallel, penetrative fabric (S_1) overprints all formations and suites on the KZK Property, and is associated with lower greenschist facies assemblages and phyllite development. Previous workers have suggested that this first foliation (S_1) is the product of regional scale isoclinal folding and intense deformation causing dismemberment and transposition of bedding into the plane of foliation (Szybinski 1996a, b, Schultze, 2001). Mapping from the 2017 field season demonstrated significant lateral continuity to bedding and did not identify any F_1 folds. Additionally, the metamorphic grade associated with S_1 is low, forming phyllite to fine grained schists. As a result, we suggest that, in comparison to the Cominco model (Szybinski, 1996a, b), relatively little plastic deformation was involved in the development of the S_1 foliation. It is unclear precisely how S_1 formed; however, it could represent the preferred growth orientation of micaceous minerals under lithostatic load during anchizonal-epizonal (e.g. Árkai et al., 2003) low grade metamorphism.

If the crenulations and F_2 structures that overprint S_1 are contemporaneous, the south vergence of F_2 folds would suggest south-southeast directed compression. The opening of NE-SW brittle faults in D_3 suggests NE-SW compression, possibly related to transpression along regional-scale transcurrent structures like the nearby Tintina fault. The orientations of S_3 kink bands are permissible within a regime of NE-SW compression.

Table 35: A comparison of our proposed deformation history and Szybinski's model for Cominco.

Cominco Model	Proposed Model
S_0 rarely preserved, locally within metasedimentary sequence, parallel to S_1	S_0 generally well preserved
D_1 generates variably intense S_1 (mylonitic to weak axial planar) F_1 folds are hard to trace due to D_2, but tight to isoclinal and approach similar style. North vergence. Dismemberment and transposition of S0 into S_1.	D_1 generates a prominent penetrative S_1 cleavage without significant folding of strata. Moderate flattening of features (clasts) into the plane of S_1.
D_2 deformation generates F_2 folds that are meso-scale and tight to isoclinal with subhorizontal axes that trend E-W. Small scale rounded crenulation of S_1, kink folding. S_2 is heterogeneously developed, and dips north, moderately steeply. South vergence.	D_2 generates local meso-scale folds with axial planar cleavage as well as local crenulations. F_2 fold axes and S_1/S_2 intersection lineations trend ENE and WSW very shallowly (5-10°)
D_3 deformation generates macroscopic folds with fold axes in a similar orientation to F_2. Not well developed.	D_3 causes late brittle faulting (Fault creek fault, etc.) and rare, horizontal and steeply dipping kink bands as well as broad open folds that warp F_2 fold axes around subhorizontal to moderately north plunging fold axes
D_4 deformation generated brittle faults such at the fault creek fault. Down-dropped block in the normal regime is the southeastern one.	

9.1.3 Prospective geology

Detailed mapping of the Fault Creek area shows a 20 x 175 m band of disseminated sulphide mineralization and strong alteration. Mineralization comprises <1 % disseminations, blebs, lenses, and bands of pyrite ± chalcopyrite along with their weathered equivalents, all of which are typically associated with silica. Alteration consists of strong muscovite + chlorite ± cordierite within a package of felsic volcaniclastic rock, mudstone and mafic intrusion (RHYv, MDS, MAFi). TerraSpec analysis of the samples in this area show a cluster of muscovitic (Al-rich) white mica, similar to the felsic rocks in the immediate vicinity of the ABM and Krakatoa Zones This band of outcrop may represent the ABM horizon directly west-southwest of the ABM deposit or a sub-ABM mineralized horizon.

Hand sample TerraSpec signatures in the area of the Cayley and Newberry soil geochemical anomalies show an area of weakly muscovitic white mica. The mapping from 2017 suggests that this area sits at a similar stratigraphic level to the GP4F Deposit.

9.1.4 Limestone prospecting

Calcium carbonate content of the samples can be calculated by summing the CaO and LOI, under the assumption that all CaO is derived from $CaCO_3$ and all of the LOI is CO_2 evolved from $CaCO_3$. Based on this method, the average $CaCO_3$ content of the 22 samples is 98.16%, with a minimum $CaCO_3$ content of 93.1% $CaCO_3$ (Table 21). Most samples are MgO-poor (<0.5% MgO), and have low concentrations of deleterious elements, with the exception of D00005907, which has a higher concentration of MgO, indicating a more dolomitic composition.

9.2 Soil Sampling

The orientation surveys, which transected ABM, Krakatoa, and GP4F mineralization area displayed anomalous values for many metals and indicator elements associated with VMS deposits. Soil pH analyses in these areas display anomalous IDH responses on the margins of the ABM massive sulphide deposit, but no response at GP4F. The central ABM orientation line displays the strongest anomalous signature, which may reflect gravity transport of sulphide bearing material to the valley floor. These results suggest that the soil sampling techniques performed during 2017 are a valuable tool for exploring for buried VMS deposits elsewhere on the KZK property.

The majority of the multi-soil anomalies occur in the southeastern and south-central portions of the soil sample grid (Figure 26). In this zone there are a few coincident anomalies of Ag-Pb, Ag-Pb-Zn, Pb-Zn, Pb-Zn-Cu, and Zn-Cu. As well, in the western portion of the grid there is a multi-soil anomaly of Cu, Zn, and Pb (Figure 26). These multi-metal anomalies are considered the most prospective as they contain many of the metals associated with VMS style mineralization at ABM, Krakatoa, and GP4F. There are many scattered point anomalies, however only multi-point anomalies should be considered significant.

Many of the anomalies in the south-central and southeastern portions of the grid occur within the Fyre Lake formation. The Fyre Lake formation is composed of intercalated mafic volcanic and sedimentary rocks. Therefore, the lithology may be elevated in Cu relative to KZK formation. This lithologically controlled Cu distribution may give rise to false anomalies. It would be valuable to compare poly-metallic anomalies to better define VMS style mineralization, because VMS-style mineralization is not commonly defined by a single enriched metal.

9.3 Exploration Drilling

Drilling down-dip of ABM provides geological insight into the setting of felsic volcanism in the KZK formation. The KZK formation was intersected in K17-447, as an approximate total of 185 m of felsic volcanic rocks over two sections. Intercalated sedimentary and mafic volcanic rocks similar to the Wind Lake Formation were intersected above, below, and in between two intervals of KZK formation rocks. Drilling in K17-448 and K17-449 did not intersect any significant continuous felsic volcanism, suggesting that the KZK formation may thin toward the north. Drilling in both K17-448 and K17-449 encountered interbedded sedimentary and mafic volcanic rocks, but no significant felsic volcanic rock.

Coarse grained feldspar-phyric granitic dykes (Leitch, 2017) cut the sedimentary and mafic volcanic rocks. This field relationship was also observed during the 2017 field mapping. These granitic dykes are inferred as a part of the Grass Lakes Plutonic Suite from field relations.

9.4 Acoustic impedance study

Based on the acoustic impedance measurements taken during the 2017 field program, massive sulphide can be reliably differentiated from felsic volcanic, mafic and mudstone using acoustic methods. Contacts between felsic volcanic, mafic and mudstone are unlikely to be differentiated by acoustic methods due their similar acoustic impedance. Formational boundaries will be difficult to differentiate from internal contacts using acoustic methods, unless they lie on an angular unconformity (Villahermosa, 2017).

Massive sulfides of the ABM deposit could be successfully delineated with a seismic survey. Additional down hole seismic data would be useful to provide more detailed in-situ information of the rock properties of the deposit. The contractor report detailing the methods and results of the acoustic impedance testing can be found in Appendix P.

9.5 Geotechnical Investigations

9.5.1 Infrastructure drilling

The combination of ODEX, Sonic, and diamond drilling was successful in collecting material to geotechnically characterize the unconsolidated sedimentary overburden and the bedrock.

Further interpretation of the data collected requires review and interpretation by a qualified mining engineer.

9.5.2 Geotechnical test pits

Diamond drilling was not adequate to sample and define the geotechnical properties of the unconsolidated sedimentary overburden in the proposed open pit area and infrastructure sites. Therefore, test pits were dug with an excavator to better define these geotechnical properties. The test pits were successful in characterizing the overburden material.

Further interpretation of the data collected requires review and interpretation by a qualified mining engineer.

9.5.1 In pit geotechnical drilling

Drilling was successful at intersecting the proposed pit high walls as well as faults. Further interpretation of the drill core data will be processed by Dempers and Seymour's engineer to develop a proposed detailed structural model to aid in the pit design and mine scheduling.

9.5.2 Televiewer program

Data collection was not complete on all boreholes due to ground conditions including groundwater and fault zones. Ground water flow created murky water conditions in certain boreholes, which prevented clear optical imagining. However, acoustic imaging is not affected by murky water conditions, but is unable to be completed above the water table. Unstable rock conditions, particularly around fault zones locally narrowed the internal diameter of the borehole, preventing the dummy and televiewer probes from passing through. Thus, imaging was not complete through and below these zones.

Further interpretation of the televiewer data requires review and interpretation by a qualified mining engineer.

9.6 Hyperspectral imaging study

Interpretations of the spectra collected from drill core in the ABM deposit area are summarized below. These have been integrated with the results of previous geological interpretations in order to determine the spatial correlations between mineralization, alteration, and spectrally identifiable mineralogy.

The 2200 nm absorption feature in singleton white mica analyses at KZK from the 2017 TerraSpec field program (1943 spectra) ranges from 2197 to 2224 nm These spectra are nearly ubiquitous in the rhyolitic rocks of the KZK formation that were sampled. The peak-shift of the 2200 nm absorption feature (λ2200) reflects the changing composition of white mica from Fe-Mg rich phengitic micas ($K(Al,Fe)(Mg,Fe)(Si_4O_{10})(OH)_2$), which ranges from 2210-2225 nm, to Al rich muscovite ($KAl_2(AlSi_3O_{10})(OH)_2$) in the range of 2195-2210 nm (Figure 29) (Dilles, 2012; Rieder et al., 1998). In drill holes that cut massive sulphide mineralization, muscovitic white mica is found in proximity to mineralization, whereas phengitic white mica is found distal.

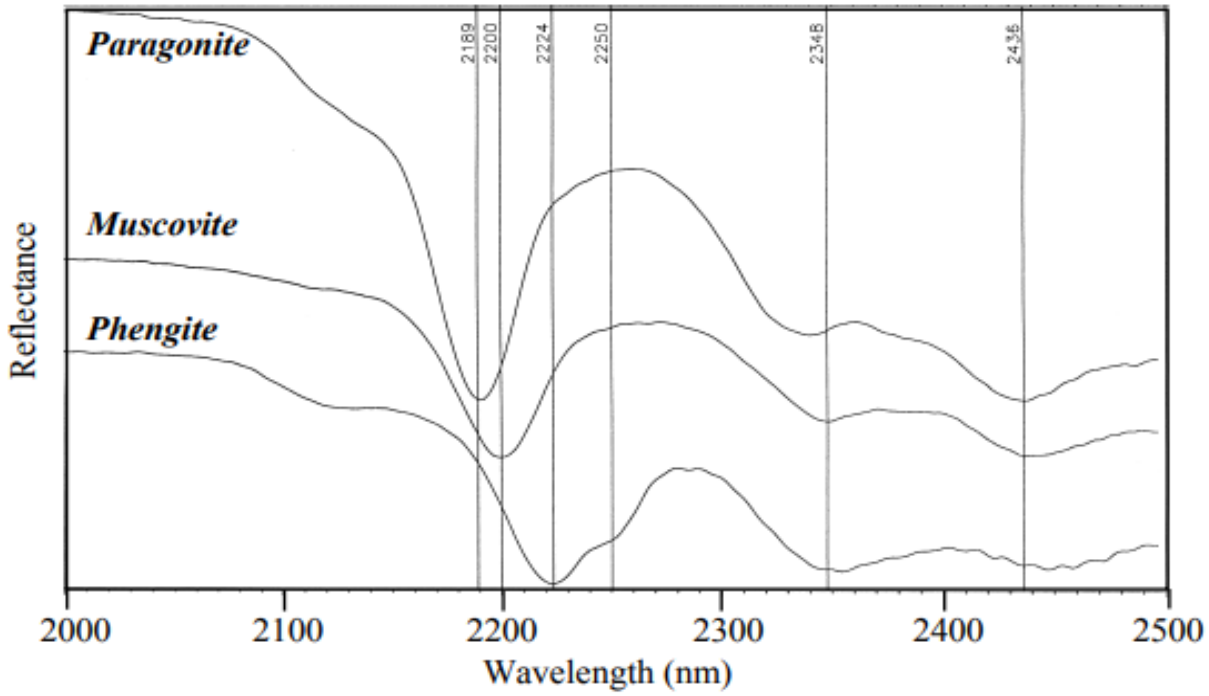


Figure 29: Idealized reflectance spectra for three types of white mica (Scott and Yang, 1997). Note the shift at the 2200 nm absorption feature.

Table 36: Additional mineral groups interpreted

Group	Min 1 USED	Min 2 USED	Count	Comments
White Mica	Phengite, Muscovite, Paragonite, Phengitic Illite, Muscovitic Illite	n/a	1943	Associated with rhyolitic rocks, muscovitic white mica proximal to mineralization, phengitic mica regionally
Chlorite	Chlorite Fe-Mg, Chlorite Fe, Chlorite Mg	Not white mica	579	Associated with MAFt, MAFi, and proximal chlorite alteration
Amphibole	Hornblende, actinolite, riebeckite	n/a	14	Associated almost exclusively with MAFi
Biotite	Biotite, phlogopite	Biotite, phlogopite	90	No distinct pattern, more common in PEL, MAFt
Carbonate	Ankerite, calcite, dolomite, siderite	Ankerite, calcite, dolomite, siderite	158	No distinct pattern
Fe-Carbonate	Ankerite, siderite	Ankerite, siderite	51	No distinct pattern
Tourmaline	Tourmaline, Tourmaline-Fe	Tourmaline, Tourmaline-Fe	12	Insufficient analyses to discern a strong pattern, many data points associated with faults
Epidote	Epidote	n/a	1	Insufficient analyses to discern any pattern
Kaolinite	Kaolinite-WX	n/a	21	Predominantly associated with faults
Smectite	Montmorillonite	n/a	2	Insufficient analyses to discern any pattern
Dickite	Dickite	Dickite	14	Commonly interpreted in low reflectance samples, no discernable pattern
Alunite-NH	N/A	Alunite-NH	11	Poor spectral matches, no discernable pattern

10.0 SUMMARY AND RECOMMENDATIONS

Earthworks done as part of the 2017 work program included drill pad and trail construction, test pit digging, as well as reclamation. 0.65 ha of land was reclaimed during the 2017 report year. The combined un-reclaimed disturbance from previous years totals 10.083 ha. The trails and sites that were not fully reclaimed in 2017 due to snow and/or cold weather should be reclaimed and reseeded in the spring of 2018.

The majority of the drill collars for the 2017 drill program were surveyed using a real time kinematic differential GPS. Drill holes, which were not surveyed in 2017 should be surveyed during the 2018 field season.

Terrain stability and hazard mapping was completed for a 64 km^2 area of the KZK project, where mine site and access roads are proposed. The report generated by Coregeo (Appendix E) describes proposed mitigation techniques to avoid credible risks and areas that warrant further attention.

Surface outcrop mapping was conducted across the majority of the KZK property and the Limey claims. More detailed mapping and prospecting was conducted on prospective target areas. The property scale mapping suggests a simpler deformation history than the work conducted by Cominco (Szybinski, 1996a). The prospective target mapping has identified new areas of prospective geology. Fixed Loop Transient Electro-Magnetic (FLTEM) surveys are recommended to test for conductive units in areas identified as prospective.

A total of 2491 soil samples were taken on the KZK property for pH testing and multi-element analysis. Zones of anomalous soil were found. Further soil sampling is recommended to cover more of the prospective stratigraphy on the KZK property. As well, it is recommended that FLTEM surveys are conducted on these soil anomalies, particularly the anomalies coincident with prospective geology and characteristic pH conditions.

A total of 32.90 line-km of FLTEM was conducted over the north of ABM, where exploration for down-dip extension of the ABM deposit and/or stratigraphy occurred. Borehole EM was also conducted in all three exploration drill holes within this area. Further processing of this geophysical data is required.

Four drill holes, totalling 2451 m, were completed as a part of the 2017 exploration drill program. Three of the holes targeted the down-dip continuation of the KZK stratigraphy, one targeted representative ABM stratigraphy and mineralization. This drilling suggests that the KZK formation thins and pinches out to the north of the ABM deposit.

The TerraSpec scoping study has shown that spectral analysis is a valuable tool to vector toward alteration zones. White mica is the most abundant and useful spectrally identified mineral in the KZK formation due to the felsic nature of the host rocks and characteristic 2200 nm absorption feature shift between muscovite and phengite. Muscovitic white mica is observed to increase toward the mineralization whereas phengitic white mica is pervasive in the host-rocks. Further TerraSpec analysis is recommended on drill core from GP4F, Fault Creek zone, deep holes from ABM and Krakatoa, and any future exploration drilling in felsic volcanic rocks. Spectral analysis of soils should be tested to determine the efficacy of the TerraSpec technique in this medium.

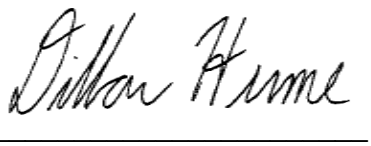
Significant contrasts in acoustic impedance between massive sulphide and silica-rich rocks were observed during the 2017 program. Acoustic methods should be able to delineate zones of massive sulphide from surrounding volcanic and sedimentary host rocks. Sulphide bodies the size of the ABM deposit should appear as discrete zones of high reflectivity in seismic reflection imaging, Additional down hole acoustic testing is recommended in order to provide more detailed in-situ information of the rock properties of the deposit.

Respectfully submitted,

Signed "Alexander Nielsen"

A. Oscar Nielsen

Signed "Dillon Hume"



Dillon Hume

EQUITY EXPLORATION CONSULTANTS LTD.
Vancouver, British Columbia
Date: 19th June 2018

Appendix A: References

REFERENCES

Árkai, P., Sassi, F. P., and Desmons, J., 2003, Very Low to Low Grade Metamorphic Rocks, p. 12.

ASD Inc., 2008, TerraSpec® User Manual, p. 62.

Baker, D., 2015a, ABM Deposit Waste Rock Geodomains: Unpublished Technical Document for BMC Minerals (No. 1) Ltd., p. 42.

Baker, D., 2015b, East Fault and Fault Creek Fault Location and Structural Geology: Unpublished Technical Document for BMC Minerals (No. 1) Ltd., p. 7.

Baker, D., Hume, D., Voordouw, R., Hulstein, R., Baknes, M., and Manor, M., 2017, 2017 Mapping and Property Geology, p. 21.

BMC Minerals Ltd., 2016, Mineral Resource Update for KZK Zn-Pb-Cu-Ag-Au Project, Yukon, News Release, November 10, 2016, www.bmcminerals.com, p. 40.

Boulton, A., 2002, GP4F poly-metallic volcanic-hosted massive sulphide deposit, Finlayson Lake District, Yukon Territory: Unpub. B.Sc thesis, University of Victoria, 42 p.

Brauhart, C., Wilson, M., Wilde, A., Mackie, R., and Potma, W., 2017, Re-evaluation of the Finlayson Lake District Geology and VHMS Prospectivity: BMC Project Area Only:R160.2017.

Brown, M. J., 1995, Preliminary Feasibility Study Kudz Ze Kayah/ABM Deposit: Cominco Ltd. Internal Document (BMC scan 06-023), p. 42.

Cominco, 1995, Prefeasibility Engineering Study for the Kudz Ze Kayah Project, Yukon Territory, July 1995: Unpublished internal report by Cominco Ltd., p. 218.

Danner, M., Locherer, M., Hank, T., and Richter, K., 2015, Spectral Sampling with the ASD FieldSpec 4 – Theory, Measurement, Problems, Interpretation, p. 20.

Dilles, J. D., 2012, Footprints of porphyry Cu deposits: Vectors to the hydrothermal center using mineral mapping and lithogeochemistry p. 580.

Discovery International Geophysics Inc., 2017, Kudz Ze Kayah Project Surface and Borehole TEM Logistics Report, p. 33.

Duncan, R., 2015, Krakatoa Deposit Metallurgical Geodomains: Unpublished Technical Document for BMC Minerals (No. 1) Ltd., p. 10.

Duncan, R., and Baker, D., 2015, Krakatoa Geology: Unpublished Technical Document for BMC Minerals (No. 1) Ltd., p. 6.

Duncan, R. A., and Rabb, T., 2015, Santorini drill targets: Unpublished Technical Document for BMC Minerals (No. 1) Ltd., p. 11.

Green, A., 2015a, Mineral Resource Estimate, ABM Polymetallic Deposit, Yukon Territory, Canada: Unpublished internal report (#R159.2015) for BMC Minerals (No. 1) Ltd, p. 344.

Green, A., 2015b, Mineral Resource Report, GP4F Polymetallic Deposit, Yukon Territory, Canada: Unpublished internal report (#R208.2015) for BMC Minerals (No. 1) Ltd, p. 99.

Green, A., Cooper, B., and VanLente, B., 2016, ABM Deposit Mineral Resource Estimate, Yukon Territory, Canada: Unpublished internal report (#R320.2015) for BMC Minerals (No. 1) Ltd, p. 211.

Hornbrook, E. H. W., and Friske, P. W. B., 1988, Regional stream sediment and water geochemical reconnaissance data, southeastern Yukon: Geological Survey of Canada Open File 1648, p. 70.

Hughes, C., 2016, GP4F deposit alteration: Unpublished Technical Document for BMC Minerals (No. 1) Ltd., p. 7.

Hughes, C., and Baknes, M., 2015a, ABM Resource Drilling Overview & Deposit Geology: Unpublished Technical Document for BMC Minerals (No. 1) Ltd., p. 33.

Hughes, C., and Baknes, M., 2015b, ABM Resource Drilling Overview & Deposit Geology: Unpublished Technical Document for BMC Minerals (No. 1) Ltd., p. 33.

Hughes, C., and Voordouw, R., 2017, 2016 Geological, Geophysical, Diamond Drilling and Geotechnical Program Report on the Kudz Ze Kayah (KZK) Property: Yukon Mining Assessment Report.

Hughes, C., Voordouw, R., Jones, M. I., and Awmack, H., 2016, 2015 Geological, Geophysical, Diamond Drilling and Environmental Program Report on the Kudz Ze Kayah Property: Yukon Mining Assessment Report, p. 3,755.

Jones, M., 2016, 2015 GP4F Target Area Report: Unpublished Technical Document for BMC Minerals (No. 1) Ltd., p. 12.

JORC, 2012, Australian code for reporting of exploration results, mineral resources and ore reserves (the JORC Code), Available from: <http://www.jorc.org> (The Joint Ore Reserves Committee of the Australasian Institute of Mining and Metallurgy, Australian Institute of Geoscientists and Minerals Council of Australia), p. 38.
Klein, J., 2000, Expatriate Finlayson UTEM Survey: Cominco Ltd Internal Document (BMC Scan 14-007), p. 34.
Layton-Matthews, D., Peter, J. M., Scott, S. D., and Leybourne, M. I., 2008, Distribution, Mineralogy, and Geochemistry of Selenium in Felsic Volcanic-Hosted Massive Sulfide Deposits of the Finlayson Lake District, Yukon Territory, Canada: Economic Geology, v. 103, p. 61-88.
MacRobbie, P., and Bannister, V., 1998, 1997 Assessment Report, Tag Property (KZK Project) and Cobb Property: Diamond Drilling and minor geological mapping and soil/rock geochemistry: Assessment Report (BMC scan 14-004), p. 67.
MacRobbie, P. A., and Holroyd, R. W., 1999, 1998 Assessment Report, Tag Property (KZK Project): Assessment Report (BMC scan 01-008).
MacRobbie, P. A., and Holroyd, R. W., 2000, 1998 and 1999 Year End Report: Tag property (KZK Project): Cominco Ltd Internal Document (BMC scan 51-007), p. 131.
MacRobbie, P. A., and Holroyd, R. W., 2005a, 2004 Assessment Report on the KZK (R-15) Project and TAG Property: Yukon Department of Energy, Mines and Resources Assessment Report 094513, p. 113.
MacRobbie, P. A., and Holroyd, R. W., 2005b, 2004 Year End Report, R-15 Option (KZK Project): Private report for Teck Cominco Limited, p. 296.
Martin, N., 2015, KZK Project Metallurgy Technical Note: Unpublished Technical note from BMC Minerals (No. 1) UK Limited, p. 10.
McKillop, R., Sacco, D., and Allen, E., 2017, Terrain stability and Hazard Mapping for the Kudz ze Kayah Project, Yukon, p. 66.
Murphy, D. C., Colpron, M., Gordey, S. P., Roots, C. F., Abbott, G., and Lipovsky, P. S., 2001, Preliminary Bedrock Geological Map of Northern Finlayson Lake Area (NTS 105G) Yukon Territory (1:100,000 scale): Indian and Northern Affairs Canada, Exploration and Geological Services Division, Yukon Region Open File 2001-33.
Murphy, D. C., Mortensen, J. K., Piercey, S. J., Orchard, M. J., and Gehrels, G. E., 2006, Mid-Paleozoic to early Mesozoic tectonostratigraphic evolution of Yukon-Tanana and Slide Mountain terranes and affiliated overlap assemblages, Finlayson Lake massive sulphide district, southeastern Yukon, Paleozoic Evolution and Metallogeny of Pericratonic Terranes at the Ancient Pacific Margin of North America, Canadian and Alaskan Cordillera, Special Paper 45, Geological Association of Canada, p. 75-105.
Nelson, J. L., Colpron, M., and Israel, S., 2013, The Cordillera of British Columbia, Yukon, and Alaska: Tectonics and Metallogeny: Special Publications of the Society of Economic Geologists, v. Special Publication, No. 17; Tectonics, Metallogeny, and Discovery: The North American Cordillera and Similar Accretionary Settings.
Peter, J. M., Layton-Matthews, D., Piercey, S., Bradshaw, G., Paradis, S., and Boulton, A., 2007, Volcanic-hosted massive sulphide deposits of the Finlayson Lake District, Yukon *in* Goodfellow, W. D., ed., Mineral Deposits of Canada: A Synthesis of Major Deposit-types, District Metallogeny, the Evolution of Geological Provinces, and Exploration Methods, Special Publication 5, Mineral Deposits Division, Geological Association of Canada, p. 471-508.
Piercey, S. J., Mortensen, J. K., and Creaser, R. A., 2003, Neodymium isotope geochemistry of felsic volcanic and intrusive rocks from the Yukon–Tanana Terrane in the Finlayson Lake Region, Yukon, Canada: Canadian Journal of Earth Sciences, v. 40, p. 77-97.
Piercey, S. J., Murphy, D. C., Mortensen, J. K., and Paradis, S., 2001a, Boninitic magmatism in a continental margin setting, Yukon-Tanana terrane, southeastern Yukon, Canada: Geology, v. 29, p. 731-734.
Piercey, S. J., Paradis, S., Murphy, D. C., and Mortensen, J. K., 2001b, Geochemistry and paleotectonic setting of felsic volcanic rocks in the Finlayson Lake volcanic-hosted massive sulfide district, Yukon, Canada: Economic Geology, v. 96, p. 1877-1905.
Piercey, S. J., Paradis, S., Murphy, D. C., and Mortensen, J. K., 2001c, Geochemistry and paleotectonic setting of felsic volcanic rocks in the Finlayson Lake volcanic-hosted massive sulfide district, Yukon,

Canada: Economic Geology and the Bulletin of the Society of Economic Geologists, v. 96, p. 1877-1905.
Rieder, M., Cavazzini, G., D'yakonov, Y. S., Frank-Kamenetskii, V. A., Gottardi, G., Guggenheim, S., Koval, P. V., Mueller, G., Neiva, A. M. R., Radoslovich, E. W., Robert, J.-L., Sassi, F. P., Takeda, H., Weiss, Z., and Wones, D. R., 1998, Nomenclature of the Micas: The Canadian Mineralogist, v. 36, p. 905-912.
Ritson, G., 2000, Pre-Feasibility Study for Finlayson Project: Private report for Expatriate Resources Ltd. dated November 7, 2000, p. 893.
Schultze, H. C., 1993, Tag Property Annual Project Report: Cominco Ltd Internal Report (BMC scan 12-006).
Schultze, H. C., 1995, Annual Report Kudz Ze Kayah Property, Tag Claims: Cominco Ltd Internal Document (BMC Scan 14-006), p. 129.
Schultze, H. C., 1996, Summary Report on 1994 - 1995 Exploration Programs Kudz Ze Kayah Property: Cominco Ltd. Internal Document (BMC scan 86-007), p. 90.
Schultze, H. C., 2001, Technical Report on the Kudz Ze Kayah property, Yukon Territory: Expatriate Resources Ltd. Technical Report (BMC scan 12-001b), p. 55.
Schultze, H. C., and Hall, D. C., 1997a, 1996 Assessment Report on Kudz Ze Kayah Property: Yukon Department of Energy, Mines and Resources Assessment Report 093712, p. 73.
Schultze, H. C., and Hall, D. C., 1997b, 1996 Assessment Report on Kudz Ze Kayah Property: Yukon Department of Energy, Mines and Resources Assessment Report 093712, p. 73.
Scott, K. M., and Yang, K., 1997, Spectral Reflectance Studies of White Micas, p. 35.
SGS Mineral Services, 2005, Processing and presenting MMI™ geochemical data, p. 4.
Smee, B. W., 2013, The use of soil pH: the IDH factor, p. 23.
Stacey, P. F., 1996, Report on Feasibility Level Mining Geotechnical Design Criteria for the ABM Deposit: Cominco Ltd Internal Document (BMC scan 05-003), p. 227.
Szybinski, Z. A., 1996a, Analysis of 1:20,000 scale lithostructural map of the Kudz Ze Kayah area, Yukon-Tanana Terrane: Cominco Ltd. Internal File Note (BMC scan 01-011), p. 11.
Szybinski, Z. A., 1996b, Comments on a structural analysis of the KZK area and the deposit: Cominco Ltd. Internal File Note (BMC scan 01-011), p. 19.
Teck-Cominco, 2007, Teck Cominco 2007 Annual Report, p. 122.
Townend, R., and Townend, D., 2015, Preparation of 36 polished thin sections of thirty six drill cores and mineragraphic/petrographic descriptions, including SEM analysis: Unpublished internal report for BMC prepared by Townend Mineralogy Laboratory 23919, p. 392.
Villahermosa, B., 2017, BMC Minerals Kudz Ze Kayah Derisking Report, p. 6.
Voordouw, R., 2016a, Review of QA/QC results for the 2015 KZK Project: Unpublished Technical Document for BMC Minerals (No. 1) Ltd, p. 58.
Voordouw, R., 2016b, Review of QA/QC results for the 2015 KZK Project: Unpublished Technical Document for BMC Minerals (No. 1) Ltd, p. 58.
Voordouw, R., 2017, Potential Phase II Programs: Memo, p. 4.
Voordouw, R., Hulstein, R., Hume, D., de Pasquale, J., Nielsen, O., and Hughes, C., 2016, GP4F section geology: Unpublished Technical Document for BMC Minerals (No. 1) Ltd., p. 6.

Appendix B: Statement of Expenditures

STATEMENT OF EXPENDITURES

KZK Project

January 01 to December 31, 2017

PROFESSIONAL FEES AND WAGES:			
Senior Project Manager	108.28 days @ $700/day	$ 75,796.00	
Senior Geologist	232.77 days @ $700/day	162,939.00	
Geologist (Core Loggers)	128.07 days @ $575/day	73,640.25	
Assistant Geologist (Geotechnicians)	67.50 days @ $400/hour	27,000.00	
Geophysicist Specialist	6.67 days @ $1000/day	6,670.00	
Exploration Assistant	190.50 days @ $400/day	76,200.00	
Project Coordinator	140.71 days @ $625/day	87,943.75	
Head Cook	167.50 days @ $550/day	92,125.00	
Senior Cook	7.00 days @ $475/day	3,325.00	
Cook	92.00 days @ $400/day	36,800.00	
Assistant Cook	166.00 days @ $325/day	53,950.00	
Kitchen Helper / Cleaner	47.00 days @ $325/day	15,275.00	
First Aid Level III	160.00 days @ $400/day	64,000.00	
Environmental Assistant	8.00 days @ $325/day	2,600.00	
Padbuilding	53.50 days @ $450/day	24,075.00	
Site Service	100.50 days @ $400/day	40,200.00	
Senior Sampler (Core Cutters)	385.50 days @ $325/day	125,287.50	
Sampler (Core Cutters)	17.00 days @ $275/day	4,675.00	
GIS	263.25 hours @ $75/hour	19,743.75	
Clerical	163.93 hours @ $35/hour	5,737.50	$ 997,982.75
EQUIPMENT RENTALS:			
Field Camp Rental	($ 6,500.00 per month)	$ 78,000.00	
Core Saw	9.00 days @ $60/day	540.00	
Field Computer	907.00 days @ $20/day	18,140.00	

Generator Rental			
	3.11 days @ $45/day	140.00	
Micromine Software			
	127.00 hours @ $50/hour	6,350.00	
TerraSpec			
	67.00 days @ $80/day	5,360.00	108,530.00
EXPENSES:			
Chemical Analyses		$ 71,783.53	
Materials and Supplies		287,067.15	
Plot Charges		144.06	
Printing and Reproductions		730.63	
Camp Food		143,645.22	
Meals		2,570.01	
Accommodation		8,460.05	
Taxis and Airporters		1,420.73	
Parking		123.81	
Snowmobile Rental (Non-Equity)		12,050.00	
Truck Rental (Non-Equity)		95,961.88	
Automotive Fuel		66,106.87	
Aircraft Charters		162,600.50	
Busfare		179.23	
Airfare		76,621.57	
Helicopter		438,746.74	
Earthworks		181,520.07	
Courier		4,287.96	
Freight		97,468.50	
Bulk Fuel		217,075.65	
Drug Test		3,432.00	
Camp Maintenance		46,506.27	
Dump Disposal Fees		2,347.70	
Satellite Phone Rental (Non-Equity)		2,648.93	
Radio Rental (Non-Equity)		19,930.43	
Downhole Survey Tool Rental (Non-Equity)		23,352.25	
Other Equipment Rental (Non-Equity)		29,380.00	
Loader		35,700.00	
Drilling: Actual		1,205,658.67	
Drilling: Coreboxes		3,920.00	
Geological Consulting		668,066.68	
Expediting		67,892.81	
Internet Charges		73,971.68	
Legal		2,725.00	
Other Contract Workers		20,755.53	
Report (estimated)		5,000.00	4,079,852.11
SUB-TOTAL:			$ 5,186,364.86
PROJECT SUPERVISION CHARGES:			348,857.16
TOTAL:			$ 5,535,222.02

Appendix C: Claim Data

This appendix contains a list of all claims comprising the KZK Property as of March 2018. Claims are ordered by grant number in Table C-1 below.

Table C-1: Tenure details for KZK Property claims

Grant Number	Tenure Type	Claim Name	Claim Number	Staking Date	Recording Date	Expiry Date	Claim Status
YB46227	Quartz	TAG	1	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46228	Quartz	TAG	2	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46229	Quartz	TAG	3	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46230	Quartz	TAG	4	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46231	Quartz	TAG	5	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46232	Quartz	TAG	6	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46233	Quartz	TAG	7	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46234	Quartz	TAG	8	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46235	Quartz	TAG	9	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46236	Quartz	TAG	10	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46237	Quartz	TAG	11	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46238	Quartz	TAG	12	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46239	Quartz	TAG	13	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46240	Quartz	TAG	14	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46241	Quartz	TAG	15	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46242	Quartz	TAG	16	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46243	Quartz	TAG	17	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46244	Quartz	TAG	18	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46245	Quartz	TAG	19	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46246	Quartz	TAG	20	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46247	Quartz	TAG	21	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46248	Quartz	TAG	22	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46249	Quartz	TAG	23	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46250	Quartz	TAG	24	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46251	Quartz	TAG	25	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46252	Quartz	TAG	26	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46253	Quartz	TAG	27	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46254	Quartz	TAG	28	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46255	Quartz	TAG	29	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46256	Quartz	TAG	30	18-Aug-93	20-Aug-93	2-Apr-28	Active
YB46325	Quartz	PLATE	1	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46326	Quartz	PLATE	2	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46327	Quartz	PLATE	3	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46328	Quartz	PLATE	4	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46329	Quartz	PLATE	5	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46330	Quartz	PLATE	6	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46331	Quartz	PLATE	7	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46332	Quartz	PLATE	8	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46333	Quartz	PLATE	9	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46334	Quartz	PLATE	10	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46335	Quartz	PLATE	11	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46336	Quartz	PLATE	12	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46337	Quartz	PLATE	13	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46338	Quartz	PLATE	14	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46339	Quartz	PLATE	15	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46340	Quartz	PLATE	16	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46341	Quartz	PLATE	17	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46342	Quartz	PLATE	18	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46343	Quartz	PLATE	19	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46344	Quartz	PLATE	20	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46345	Quartz	PLATE	21	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46346	Quartz	PLATE	22	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46347	Quartz	PLATE	23	15-Sep-93	29-Sep-93	2-Apr-28	Active

Grant Number	Tenure Type	Claim Name	Claim Number	Staking Date	Recording Date	Expiry Date	Claim Status
YB46348	Quartz	PLATE	24	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46349	Quartz	PLATE	25	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46350	Quartz	HOME	1	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46351	Quartz	HOME	2	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46352	Quartz	HOME	3	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46353	Quartz	HOME	4	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46354	Quartz	HOME	5	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46355	Quartz	HOME	6	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46356	Quartz	HOME	7	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46357	Quartz	HOME	8	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46358	Quartz	HOME	9	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46359	Quartz	HOME	10	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46360	Quartz	HOME	11	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46361	Quartz	HOME	12	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46362	Quartz	HOME	13	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46363	Quartz	HOME	14	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46364	Quartz	HOME	15	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46365	Quartz	HOME	16	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB46366	Quartz	HOME	17	15-Sep-93	29-Sep-93	2-Apr-28	Active
YB47461	Quartz	TAG	31	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47462	Quartz	TAG	32	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47463	Quartz	TAG	33	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47464	Quartz	TAG	34	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47465	Quartz	TAG	35	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47466	Quartz	TAG	36	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47467	Quartz	TAG	37	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47468	Quartz	TAG	38	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47469	Quartz	TAG	39	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47470	Quartz	TAG	40	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47471	Quartz	TAG	41	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47472	Quartz	TAG	42	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47473	Quartz	TAG	43	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47474	Quartz	TAG	44	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47475	Quartz	TAG	45	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47476	Quartz	TAG	46	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47477	Quartz	TAG	47	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47478	Quartz	TAG	48	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47479	Quartz	TAG	49	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47480	Quartz	TAG	50	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47481	Quartz	TAG	51	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47482	Quartz	TAG	52	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47483	Quartz	TAG	53	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47484	Quartz	TAG	54	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47485	Quartz	TAG	55	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47486	Quartz	TAG	56	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47487	Quartz	TAG	57	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47488	Quartz	TAG	58	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47489	Quartz	TAG	59	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47490	Quartz	TAG	60	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47491	Quartz	TAG	61	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47492	Quartz	TAG	62	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47493	Quartz	TAG	63	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47494	Quartz	TAG	64	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47495	Quartz	TAG	65	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47496	Quartz	TAG	66	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47497	Quartz	TAG	67	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47498	Quartz	TAG	68	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47499	Quartz	TAG	69	9-Apr-94	15-Apr-94	2-Apr-26	Active

Grant Number	Tenure Type	Claim Name	Claim Number	Staking Date	Recording Date	Expiry Date	Claim Status
YB47500	Quartz	TAG	70	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47501	Quartz	TAG	71	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47502	Quartz	TAG	72	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47503	Quartz	TAG	73	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47504	Quartz	TAG	74	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47505	Quartz	TAG	75	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47506	Quartz	TAG	76	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47507	Quartz	TAG	77	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47508	Quartz	TAG	78	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47509	Quartz	TAG	79	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47510	Quartz	TAG	80	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47511	Quartz	TAG	81	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47512	Quartz	TAG	82	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47513	Quartz	TAG	83	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47514	Quartz	TAG	84	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47515	Quartz	TAG	85	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47516	Quartz	TAG	86	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47517	Quartz	TAG	87	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47518	Quartz	TAG	88	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47519	Quartz	TAG	89	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47520	Quartz	TAG	90	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47521	Quartz	TAG	91	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47522	Quartz	TAG	92	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47523	Quartz	TAG	93	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47524	Quartz	TAG	94	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47525	Quartz	TAG	95	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47526	Quartz	TAG	96	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47527	Quartz	TAG	97	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47528	Quartz	TAG	98	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47529	Quartz	TAG	99	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47530	Quartz	TAG	100	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47531	Quartz	TAG	101	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47532	Quartz	TAG	102	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47533	Quartz	TAG	103	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47534	Quartz	TAG	104	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47535	Quartz	TAG	105	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47536	Quartz	TAG	106	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47537	Quartz	TAG	107	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47538	Quartz	TAG	108	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47539	Quartz	TAG	109	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47540	Quartz	TAG	110	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47541	Quartz	TAG	111	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47542	Quartz	TAG	112	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47543	Quartz	TAG	113	9-Apr-94	15-Apr-94	2-Apr-26	Active
YB47544	Quartz	TAG	158	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47545	Quartz	TAG	159	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47546	Quartz	TAG	160	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47547	Quartz	TAG	161	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47548	Quartz	TAG	162	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47549	Quartz	TAG	163	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47550	Quartz	TAG	164	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47551	Quartz	TAG	165	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47552	Quartz	TAG	166	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47553	Quartz	TAG	167	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47554	Quartz	TAG	168	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47555	Quartz	TAG	169	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47556	Quartz	TAG	170	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47557	Quartz	TAG	171	10-Apr-94	15-Apr-94	2-Apr-26	Active

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YB47558	Quartz	TAG	172	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47559	Quartz	TAG	173	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47560	Quartz	TAG	174	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47561	Quartz	TAG	175	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47562	Quartz	TAG	176	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47563	Quartz	TAG	177	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47564	Quartz	TAG	178	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47565	Quartz	TAG	179	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47566	Quartz	TAG	180	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47567	Quartz	TAG	181	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47568	Quartz	TAG	182	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47569	Quartz	TAG	183	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47570	Quartz	TAG	184	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47571	Quartz	TAG	185	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47572	Quartz	TAG	186	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47573	Quartz	TAG	187	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47574	Quartz	TAG	188	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47575	Quartz	TAG	189	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47576	Quartz	TAG	190	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47577	Quartz	TAG	191	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47578	Quartz	TAG	192	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47579	Quartz	TAG	193	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47580	Quartz	TAG	194	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47581	Quartz	TAG	195	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47582	Quartz	TAG	196	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47583	Quartz	TAG	197	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47584	Quartz	TAG	198	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47585	Quartz	TAG	199	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47586	Quartz	TAG	200	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47587	Quartz	TAG	201	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47588	Quartz	TAG	202	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47590	Quartz	TAG	204	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47592	Quartz	TAG	206	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47593	Quartz	TAG	207	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47594	Quartz	TAG	208	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47595	Quartz	TAG	209	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47596	Quartz	TAG	210	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47597	Quartz	TAG	211	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47598	Quartz	TAG	212	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47599	Quartz	TAG	213	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47600	Quartz	TAG	214	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47601	Quartz	TAG	215	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47602	Quartz	TAG	216	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47603	Quartz	TAG	217	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47604	Quartz	TAG	218	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47605	Quartz	TAG	219	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47606	Quartz	TAG	220	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47607	Quartz	TAG	221	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47608	Quartz	TAG	222	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47609	Quartz	TAG	223	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47610	Quartz	TAG	224	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47611	Quartz	TAG	225	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47612	Quartz	TAG	226	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47613	Quartz	TAG	227	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47614	Quartz	TAG	228	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47615	Quartz	TAG	229	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47616	Quartz	TAG	230	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47617	Quartz	TAG	231	10-Apr-94	15-Apr-94	2-Apr-26	Active

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YB47618	Quartz	TAG	232	10-Apr-94	15-Apr-94	2-Apr-26	Active
YB47619	Quartz	TAG	233	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47620	Quartz	TAG	234	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47621	Quartz	TAG	235	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47622	Quartz	TAG	236	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47623	Quartz	TAG	237	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47624	Quartz	TAG	238	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47625	Quartz	TAG	239	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47626	Quartz	TAG	240	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47627	Quartz	TAG	241	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47628	Quartz	TAG	242	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47629	Quartz	TAG	243	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47630	Quartz	TAG	244	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47631	Quartz	TAG	245	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47632	Quartz	TAG	246	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47633	Quartz	TAG	247	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47634	Quartz	TAG	248	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47635	Quartz	TAG	249	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47636	Quartz	TAG	250	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47637	Quartz	TAG	251	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47638	Quartz	TAG	252	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47639	Quartz	TAG	253	11-Apr-94	15-Apr-94	2-Apr-26	Active
YB47640	Quartz	TAG	254	14-Apr-94	15-Apr-94	2-Apr-26	Active
YB47641	Quartz	TAG	255	14-Apr-94	15-Apr-94	2-Apr-26	Active
YB47642	Quartz	TAG	256	14-Apr-94	15-Apr-94	2-Apr-26	Active
YB47643	Quartz	TAG	257	14-Apr-94	15-Apr-94	2-Apr-26	Active
YB47644	Quartz	TAG	258	14-Apr-94	15-Apr-94	2-Apr-26	Active
YB47645	Quartz	TAG	259	14-Apr-94	15-Apr-94	2-Apr-26	Active
YB47646	Quartz	TAG	260	14-Apr-94	15-Apr-94	2-Apr-26	Active
YB47647	Quartz	TAG	261	14-Apr-94	15-Apr-94	2-Apr-26	Active
YB47648	Quartz	TAG	262	14-Apr-94	15-Apr-94	2-Apr-26	Active
YB47649	Quartz	TAG	263	14-Apr-94	15-Apr-94	2-Apr-26	Active
YB47668	Quartz	TAG	114	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47669	Quartz	TAG	115	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47670	Quartz	TAG	116	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47671	Quartz	TAG	117	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47672	Quartz	TAG	118	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47673	Quartz	TAG	119	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47674	Quartz	TAG	120	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47675	Quartz	TAG	121	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47676	Quartz	TAG	122	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47677	Quartz	TAG	123	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47678	Quartz	TAG	124	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47679	Quartz	TAG	125	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47680	Quartz	TAG	126	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47681	Quartz	TAG	127	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47682	Quartz	TAG	128	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47683	Quartz	TAG	129	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47684	Quartz	TAG	130	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47685	Quartz	TAG	131	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47686	Quartz	TAG	132	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47687	Quartz	TAG	133	9-Apr-94	26-Apr-94	2-Apr-26	Active
YB47688	Quartz	TAG	134	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47689	Quartz	TAG	135	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47690	Quartz	TAG	136	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47691	Quartz	TAG	137	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47692	Quartz	TAG	138	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47693	Quartz	TAG	139	10-Apr-94	26-Apr-94	2-Apr-26	Active

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YB47694	Quartz	TAG	140	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47695	Quartz	TAG	141	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47696	Quartz	TAG	142	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47697	Quartz	TAG	143	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47698	Quartz	TAG	144	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47699	Quartz	TAG	145	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47700	Quartz	TAG	146	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47701	Quartz	TAG	147	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47702	Quartz	TAG	148	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47703	Quartz	TAG	149	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47704	Quartz	TAG	150	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47705	Quartz	TAG	151	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47706	Quartz	TAG	152	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47707	Quartz	TAG	153	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47708	Quartz	TAG	154	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47709	Quartz	TAG	155	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47710	Quartz	TAG	156	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB47711	Quartz	TAG	157	10-Apr-94	26-Apr-94	2-Apr-26	Active
YB48413	Quartz	TAG	264	26-Apr-94	2-May-94	2-Apr-26	Active
YB48414	Quartz	TAG	265	26-Apr-94	2-May-94	2-Apr-26	Active
YB48415	Quartz	TAG	266	26-Apr-94	2-May-94	2-Apr-28	Active
YB48416	Quartz	TAG	267	26-Apr-94	2-May-94	2-Apr-28	Active
YB48417	Quartz	TAG	268	26-Apr-94	2-May-94	2-Apr-28	Active
YB48418	Quartz	TAG	269	26-Apr-94	2-May-94	2-Apr-28	Active
YB48419	Quartz	TAG	270	26-Apr-94	2-May-94	2-Apr-26	Active
YB48420	Quartz	TAG	271	26-Apr-94	2-May-94	2-Apr-26	Active
YB48421	Quartz	TAG	272	26-Apr-94	2-May-94	2-Apr-26	Active
YB48422	Quartz	TAG	273	26-Apr-94	2-May-94	2-Apr-26	Active
YB48423	Quartz	TAG	274	26-Apr-94	2-May-94	2-Apr-26	Active
YB48424	Quartz	TAG	275	26-Apr-94	2-May-94	2-Apr-26	Active
YB48425	Quartz	TAG	276	26-Apr-94	2-May-94	2-Apr-26	Active
YB48426	Quartz	TAG	277	26-Apr-94	2-May-94	2-Apr-26	Active
YB48427	Quartz	TAG	278	26-Apr-94	2-May-94	2-Apr-26	Active
YB48428	Quartz	TAG	279	26-Apr-94	2-May-94	2-Apr-26	Active
YB48429	Quartz	TAG	280	26-Apr-94	2-May-94	2-Apr-26	Active
YB48430	Quartz	TAG	281	26-Apr-94	2-May-94	2-Apr-26	Active
YB48431	Quartz	TAG	282	26-Apr-94	2-May-94	2-Apr-26	Active
YB48432	Quartz	TAG	283	26-Apr-94	2-May-94	2-Apr-26	Active
YB48433	Quartz	TAG	284	26-Apr-94	2-May-94	2-Apr-26	Active
YB48434	Quartz	TAG	285	26-Apr-94	2-May-94	2-Apr-26	Active
YB48435	Quartz	TAG	286	26-Apr-94	2-May-94	2-Apr-26	Active
YB48436	Quartz	TAG	287	26-Apr-94	2-May-94	2-Apr-26	Active
YB48437	Quartz	TAG	288	26-Apr-94	2-May-94	2-Apr-26	Active
YB48438	Quartz	TAG	289	26-Apr-94	2-May-94	2-Apr-26	Active
YB48439	Quartz	TAG	290	26-Apr-94	2-May-94	2-Apr-26	Active
YB48440	Quartz	TAG	291	26-Apr-94	2-May-94	2-Apr-26	Active
YB48441	Quartz	TAG	292	26-Apr-94	2-May-94	2-Apr-26	Active
YB48442	Quartz	TAG	293	26-Apr-94	2-May-94	2-Apr-26	Active
YB48443	Quartz	TAG	294	26-Apr-94	2-May-94	2-Apr-26	Active
YB48444	Quartz	TAG	295	26-Apr-94	2-May-94	2-Apr-26	Active
YB48445	Quartz	TAG	296	26-Apr-94	2-May-94	2-Apr-26	Active
YB48446	Quartz	TAG	297	26-Apr-94	2-May-94	2-Apr-26	Active
YB48447	Quartz	TAG	298	26-Apr-94	2-May-94	2-Apr-26	Active
YB48448	Quartz	TAG	299	26-Apr-94	2-May-94	2-Apr-26	Active
YB48449	Quartz	TAG	300	26-Apr-94	2-May-94	2-Apr-26	Active
YB48450	Quartz	TAG	301	26-Apr-94	2-May-94	2-Apr-26	Active
YB48451	Quartz	TAG	302	26-Apr-94	2-May-94	2-Apr-26	Active
YB48452	Quartz	TAG	303	26-Apr-94	2-May-94	2-Apr-26	Active

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YB48455	Quartz	TAG	306	26-Apr-94	2-May-94	2-Apr-26	Active
YB48456	Quartz	TAG	307	26-Apr-94	2-May-94	2-Apr-26	Active
YB48457	Quartz	TAG	308	26-Apr-94	2-May-94	2-Apr-26	Active
YB48458	Quartz	TAG	309	26-Apr-94	2-May-94	2-Apr-26	Active
YB48459	Quartz	TAG	310	26-Apr-94	2-May-94	2-Apr-26	Active
YB48460	Quartz	TAG	311	26-Apr-94	2-May-94	2-Apr-26	Active
YB48461	Quartz	TAG	312	27-Apr-94	2-May-94	2-Apr-26	Active
YB48464	Quartz	TAG	315	27-Apr-94	2-May-94	2-Apr-26	Active
YB48465	Quartz	TAG	316	27-Apr-94	2-May-94	2-Apr-26	Active
YB48466	Quartz	TAG	317	27-Apr-94	2-May-94	2-Apr-26	Active
YB48467	Quartz	TAG	318	27-Apr-94	2-May-94	2-Apr-26	Active
YB48468	Quartz	TAG	319	27-Apr-94	2-May-94	2-Apr-26	Active
YB48477	Quartz	TAG	328	26-Apr-94	2-May-94	2-Apr-26	Active
YB48478	Quartz	TAG	329	26-Apr-94	2-May-94	2-Apr-26	Active
YB48479	Quartz	TAG	330	26-Apr-94	2-May-94	2-Apr-26	Active
YB48480	Quartz	TAG	331	26-Apr-94	2-May-94	2-Apr-26	Active
YB48481	Quartz	TAG	332	26-Apr-94	2-May-94	2-Apr-26	Active
YB48482	Quartz	TAG	333	26-Apr-94	2-May-94	2-Apr-26	Active
YB48483	Quartz	TAG	334	26-Apr-94	2-May-94	2-Apr-26	Active
YB48484	Quartz	TAG	335	26-Apr-94	2-May-94	2-Apr-26	Active
YB48485	Quartz	TAG	336	26-Apr-94	2-May-94	2-Apr-26	Active
YB48486	Quartz	TAG	337	26-Apr-94	2-May-94	2-Apr-26	Active
YB48507	Quartz	TAG	358	26-Apr-94	2-May-94	2-Apr-26	Active
YB48508	Quartz	TAG	359	26-Apr-94	2-May-94	2-Apr-26	Active
YB48509	Quartz	TAG	360	26-Apr-94	2-May-94	2-Apr-26	Active
YB48510	Quartz	TAG	361	26-Apr-94	2-May-94	2-Apr-26	Active
YB48511	Quartz	TAG	362	26-Apr-94	2-May-94	2-Apr-26	Active
YB48512	Quartz	TAG	363	26-Apr-94	2-May-94	2-Apr-26	Active
YB48513	Quartz	TAG	364	26-Apr-94	2-May-94	2-Apr-26	Active
YB48514	Quartz	TAG	365	26-Apr-94	2-May-94	2-Apr-26	Active
YB48515	Quartz	TAG	366	26-Apr-94	2-May-94	2-Apr-26	Active
YB48516	Quartz	TAG	367	26-Apr-94	2-May-94	2-Apr-26	Active
YB48517	Quartz	TAG	368	27-Apr-94	2-May-94	2-Apr-26	Active
YB48518	Quartz	TAG	369	27-Apr-94	2-May-94	2-Apr-26	Active
YB48519	Quartz	TAG	370	27-Apr-94	2-May-94	2-Apr-26	Active
YB48520	Quartz	TAG	371	27-Apr-94	2-May-94	2-Apr-26	Active
YB48521	Quartz	TAG	372	27-Apr-94	2-May-94	2-Apr-26	Active
YB48522	Quartz	TAG	373	27-Apr-94	2-May-94	2-Apr-26	Active
YB48523	Quartz	TAG	374	27-Apr-94	2-May-94	2-Apr-26	Active
YB48524	Quartz	TAG	375	27-Apr-94	2-May-94	2-Apr-26	Active
YB48525	Quartz	TAG	376	27-Apr-94	2-May-94	2-Apr-26	Active
YB48526	Quartz	TAG	377	27-Apr-94	2-May-94	2-Apr-26	Active
YB48532	Quartz	TAG	383	27-Apr-94	2-May-94	2-Apr-26	Active
YB48534	Quartz	TAG	385	27-Apr-94	2-May-94	2-Apr-26	Active
YB48535	Quartz	TAG	386	27-Apr-94	2-May-94	2-Apr-26	Active
YB48536	Quartz	TAG	387	27-Apr-94	2-May-94	2-Apr-26	Active
YB48917	Quartz	EL	1	17-May-94	27-May-94	2-Apr-26	Active
YB48918	Quartz	EL	2	17-May-94	27-May-94	2-Apr-26	Active
YB48919	Quartz	EL	3	17-May-94	27-May-94	2-Apr-26	Active
YB48920	Quartz	EL	4	17-May-94	27-May-94	2-Apr-26	Active
YB48921	Quartz	EL	5	17-May-94	27-May-94	2-Apr-26	Active
YB48922	Quartz	EL	6	17-May-94	27-May-94	2-Apr-26	Active
YB48923	Quartz	EL	7	17-May-94	27-May-94	2-Apr-26	Active
YB48924	Quartz	EL	8	17-May-94	27-May-94	2-Apr-26	Active
YB48925	Quartz	LY	1	17-May-94	27-May-94	2-Apr-26	Active
YB48926	Quartz	LY	2	17-May-94	27-May-94	2-Apr-26	Active
YB48927	Quartz	LY	3	17-May-94	27-May-94	2-Apr-26	Active
YB48928	Quartz	LY	4	17-May-94	27-May-94	2-Apr-26	Active

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YB48929	Quartz	LY	5	17-May-94	27-May-94	2-Apr-26	Active
YB48930	Quartz	LY	6	17-May-94	27-May-94	2-Apr-26	Active
YB48931	Quartz	LY	7	17-May-94	27-May-94	2-Apr-26	Active
YB48932	Quartz	LY	8	17-May-94	27-May-94	2-Apr-26	Active
YB48933	Quartz	LY	9	17-May-94	27-May-94	2-Apr-26	Active
YB48934	Quartz	LY	10	17-May-94	27-May-94	2-Apr-26	Active
YB48935	Quartz	LY	11	17-May-94	27-May-94	2-Apr-26	Active
YB48936	Quartz	LY	12	17-May-94	27-May-94	2-Apr-26	Active
YB48937	Quartz	LY	13	17-May-94	27-May-94	2-Apr-26	Active
YB48938	Quartz	LY	14	17-May-94	27-May-94	2-Apr-26	Active
YB48939	Quartz	LY	15	17-May-94	27-May-94	2-Apr-26	Active
YB48940	Quartz	TAG	398	16-May-94	27-May-94	2-Apr-26	Active
YB48941	Quartz	TAG	399	16-May-94	27-May-94	2-Apr-26	Active
YB48942	Quartz	TAG	400	16-May-94	27-May-94	2-Apr-26	Active
YB48943	Quartz	TAG	401	16-May-94	27-May-94	2-Apr-26	Active
YB48944	Quartz	TAG	402	16-May-94	27-May-94	2-Apr-26	Active
YB48945	Quartz	TAG	403	16-May-94	27-May-94	2-Apr-26	Active
YB48946	Quartz	TAG	404	16-May-94	27-May-94	2-Apr-26	Active
YB48947	Quartz	TAG	405	16-May-94	27-May-94	2-Apr-26	Active
YB48948	Quartz	TAG	406	16-May-94	27-May-94	2-Apr-26	Active
YB48949	Quartz	TAG	407	16-May-94	27-May-94	2-Apr-26	Active
YB48950	Quartz	TAG	408	16-May-94	27-May-94	2-Apr-26	Active
YB48951	Quartz	TAG	409	16-May-94	27-May-94	2-Apr-26	Active
YB48952	Quartz	TAG	410	16-May-94	27-May-94	2-Apr-26	Active
YB48953	Quartz	TAG	411	16-May-94	27-May-94	2-Apr-26	Active
YB48954	Quartz	TAG	412	16-May-94	27-May-94	2-Apr-26	Active
YB48955	Quartz	TAG	413	16-May-94	27-May-94	2-Apr-26	Active
YB48956	Quartz	TAG	414	16-May-94	27-May-94	2-Apr-26	Active
YB48957	Quartz	TAG	415	16-May-94	27-May-94	2-Apr-26	Active
YB48958	Quartz	TAG	416	16-May-94	27-May-94	2-Apr-26	Active
YB48959	Quartz	TAG	417	16-May-94	27-May-94	2-Apr-26	Active
YB48960	Quartz	TAG	418	16-May-94	27-May-94	2-Apr-26	Active
YB48961	Quartz	TAG	419	16-May-94	27-May-94	2-Apr-26	Active
YB48962	Quartz	TAG	420	16-May-94	27-May-94	2-Apr-26	Active
YB48963	Quartz	TAG	421	16-May-94	27-May-94	2-Apr-26	Active
YB48964	Quartz	TAG	422	16-May-94	27-May-94	2-Apr-26	Active
YB48965	Quartz	TAG	423	16-May-94	27-May-94	2-Apr-26	Active
YB48966	Quartz	TAG	424	16-May-94	27-May-94	2-Apr-26	Active
YB48967	Quartz	TAG	425	16-May-94	27-May-94	2-Apr-26	Active
YB48968	Quartz	TAG	426	16-May-94	27-May-94	2-Apr-26	Active
YB48969	Quartz	TAG	427	16-May-94	27-May-94	2-Apr-26	Active
YB48970	Quartz	TAG	428	16-May-94	27-May-94	2-Apr-26	Active
YB48971	Quartz	TAG	429	16-May-94	27-May-94	2-Apr-26	Active
YB48972	Quartz	TAG	430	16-May-94	27-May-94	2-Apr-26	Active
YB48973	Quartz	TAG	431	16-May-94	27-May-94	2-Apr-26	Active
YB48974	Quartz	TAG	432	16-May-94	27-May-94	2-Apr-26	Active
YB48975	Quartz	TAG	433	16-May-94	27-May-94	2-Apr-26	Active
YB48976	Quartz	TAG	434	16-May-94	27-May-94	2-Apr-26	Active
YB48977	Quartz	TAG	435	16-May-94	27-May-94	2-Apr-26	Active
YB48978	Quartz	TAG	436	16-May-94	27-May-94	2-Apr-26	Active
YB48979	Quartz	TAG	437	16-May-94	27-May-94	2-Apr-26	Active
YB48980	Quartz	TAG	438	16-May-94	27-May-94	2-Apr-26	Active
YB48981	Quartz	TAG	439	16-May-94	27-May-94	2-Apr-26	Active
YB48982	Quartz	TAG	440	16-May-94	27-May-94	2-Apr-26	Active
YB48983	Quartz	TAG	441	16-May-94	27-May-94	2-Apr-26	Active
YB48984	Quartz	TAG	442	16-May-94	27-May-94	2-Apr-26	Active
YB48985	Quartz	TAG	443	16-May-94	27-May-94	2-Apr-26	Active
YB48986	Quartz	TAG	444	16-May-94	27-May-94	2-Apr-26	Active

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YB48987	Quartz	TAG	445	16-May-94	27-May-94	2-Apr-26	Active
YB48988	Quartz	TAG	446	16-May-94	27-May-94	2-Apr-26	Active
YB48989	Quartz	TAG	447	16-May-94	27-May-94	2-Apr-26	Active
YB48990	Quartz	TAG	448	16-May-94	27-May-94	2-Apr-26	Active
YB48991	Quartz	TAG	449	16-May-94	27-May-94	2-Apr-26	Active
YB48992	Quartz	TAG	450	16-May-94	27-May-94	2-Apr-26	Active
YB48993	Quartz	TAG	451	16-May-94	27-May-94	2-Apr-26	Active
YB48994	Quartz	TAG	452	16-May-94	27-May-94	2-Apr-26	Active
YB48995	Quartz	TAG	453	16-May-94	27-May-94	2-Apr-26	Active
YB48996	Quartz	TAG	454	16-May-94	27-May-94	2-Apr-26	Active
YB48997	Quartz	TAG	455	16-May-94	27-May-94	2-Apr-26	Active
YB48998	Quartz	TAG	456	16-May-94	27-May-94	2-Apr-26	Active
YB48999	Quartz	TAG	457	16-May-94	27-May-94	2-Apr-26	Active
YB49000	Quartz	TAG	458	16-May-94	27-May-94	2-Apr-26	Active
YB49001	Quartz	TAG	459	16-May-94	27-May-94	2-Apr-26	Active
YB49002	Quartz	TAG	460	16-May-94	27-May-94	2-Apr-26	Active
YB49003	Quartz	TAG	461	16-May-94	27-May-94	2-Apr-26	Active
YB49565	Quartz	TAG	489	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49566	Quartz	TAG	490	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49567	Quartz	TAG	491	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49568	Quartz	TAG	492	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49569	Quartz	TAG	493	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49570	Quartz	TAG	494	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49571	Quartz	TAG	495	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49572	Quartz	TAG	496	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49573	Quartz	TAG	497	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49574	Quartz	TAG	498	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49575	Quartz	TAG	499	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49576	Quartz	TAG	500	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49577	Quartz	TAG	501	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49578	Quartz	TAG	502	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49579	Quartz	TAG	503	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49580	Quartz	TAG	504	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49581	Quartz	TAG	505	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49582	Quartz	TAG	506	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49583	Quartz	TAG	507	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49584	Quartz	TAG	508	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49585	Quartz	TAG	509	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49586	Quartz	TAG	510	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49587	Quartz	TAG	511	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49588	Quartz	TAG	512	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49589	Quartz	TAG	513	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49590	Quartz	TAG	514	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49591	Quartz	TAG	515	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49592	Quartz	TAG	516	1-Jun-94	22-Jun-94	2-Apr-26	Active
YB49654	Quartz	LIMY	1	10-Jun-94	22-Jun-94	2-Apr-26	Active
YB49655	Quartz	LIMY	2	10-Jun-94	22-Jun-94	2-Apr-26	Active
YB49656	Quartz	LIMY	3	10-Jun-94	22-Jun-94	2-Apr-26	Active
YB49657	Quartz	LIMY	4	10-Jun-94	22-Jun-94	2-Apr-26	Active
YB49658	Quartz	LIMY	5	10-Jun-94	22-Jun-94	2-Apr-26	Active
YB49659	Quartz	LIMY	6	10-Jun-94	22-Jun-94	2-Apr-26	Active
YB49660	Quartz	LIMY	7	10-Jun-94	22-Jun-94	2-Apr-26	Active
YB49661	Quartz	LIMY	8	10-Jun-94	22-Jun-94	2-Apr-26	Active
YB49662	Quartz	LIMY	9	10-Jun-94	22-Jun-94	2-Apr-26	Active
YB50436	Quartz	TAG	559	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50437	Quartz	TAG	560	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50438	Quartz	TAG	561	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50439	Quartz	TAG	562	23-Jun-94	7-Jul-94	2-Apr-26	Active

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YB50510	Quartz	TAG	633	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50511	Quartz	TAG	634	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50512	Quartz	TAG	635	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50513	Quartz	TAG	636	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50514	Quartz	TAG	637	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50515	Quartz	TAG	638	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50516	Quartz	TAG	639	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50517	Quartz	TAG	640	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50518	Quartz	TAG	641	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50519	Quartz	TAG	642	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50521	Quartz	TAG	644	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50589	Quartz	TAG	712	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50590	Quartz	TAG	713	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50591	Quartz	TAG	714	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50592	Quartz	TAG	715	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50593	Quartz	TAG	716	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50594	Quartz	TAG	717	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50595	Quartz	TAG	718	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50596	Quartz	TAG	719	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50600	Quartz	TAG	723	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50602	Quartz	TAG	725	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50604	Quartz	TAG	727	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50606	Quartz	TAG	729	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50607	Quartz	TAG	730	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50608	Quartz	TAG	731	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50609	Quartz	TAG	732	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50611	Quartz	TAG	734	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50613	Quartz	TAG	736	24-Jun-94	7-Jul-94	2-Apr-26	Active
YB50615	Quartz	TAG	738	24-Jun-94	7-Jul-94	2-Apr-26	Active
YB50617	Quartz	TAG	740	24-Jun-94	7-Jul-94	2-Apr-26	Active
YB50623	Quartz	TAG	746	24-Jun-94	7-Jul-94	2-Apr-26	Active
YB50625	Quartz	TAG	748	24-Jun-94	7-Jul-94	2-Apr-26	Active
YB50627	Quartz	TAG	750	24-Jun-94	7-Jul-94	2-Apr-26	Active
YB50629	Quartz	TAG	752	24-Jun-94	7-Jul-94	2-Apr-26	Active
YB50631	Quartz	TAG	754	25-Jun-94	7-Jul-94	2-Apr-26	Active
YB50633	Quartz	TAG	756	25-Jun-94	7-Jul-94	2-Apr-26	Active
YB50635	Quartz	TAG	758	25-Jun-94	7-Jul-94	2-Apr-26	Active
YB50637	Quartz	TAG	760	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50639	Quartz	TAG	762	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50641	Quartz	TAG	764	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50643	Quartz	TAG	766	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50664	Quartz	TAG	787	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50665	Quartz	TAG	788	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50666	Quartz	TAG	789	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50667	Quartz	TAG	790	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50670	Quartz	TAG	793	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50671	Quartz	TAG	794	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50692	Quartz	TAG	815	24-Jun-94	7-Jul-94	2-Apr-26	Active
YB50716	Quartz	TAG	839	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50718	Quartz	TAG	841	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50720	Quartz	TAG	843	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50722	Quartz	TAG	845	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50723	Quartz	TAG	846	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50725	Quartz	TAG	848	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50734	Quartz	TAG	857	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50735	Quartz	TAG	858	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50736	Quartz	TAG	859	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50737	Quartz	TAG	860	23-Jun-94	7-Jul-94	2-Apr-26	Active

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YB50740	Quartz	TAG	863	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50741	Quartz	TAG	864	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50798	Quartz	TAG	921	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50800	Quartz	TAG	923	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50801	Quartz	TAG	924	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50802	Quartz	TAG	925	26-Jun-94	7-Jul-94	2-Apr-26	Active
YB50805	Quartz	TAG	928	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50806	Quartz	TAG	929	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50807	Quartz	TAG	930	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB50808	Quartz	TAG	931	23-Jun-94	7-Jul-94	2-Apr-26	Active
YB51214	Quartz	TAG	1057	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51215	Quartz	TAG	1058	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51216	Quartz	TAG	1059	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51217	Quartz	TAG	1060	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51218	Quartz	TAG	1061	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51219	Quartz	TAG	1062	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51220	Quartz	TAG	1063	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51221	Quartz	TAG	1064	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51222	Quartz	TAG	1065	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51223	Quartz	TAG	1066	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51224	Quartz	TAG	1067	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51225	Quartz	TAG	1068	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51226	Quartz	TAG	1069	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51227	Quartz	TAG	1070	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51228	Quartz	TAG	1071	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51229	Quartz	TAG	1072	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51230	Quartz	TAG	1073	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51231	Quartz	TAG	1074	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51232	Quartz	TAG	1075	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51233	Quartz	TAG	1076	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51234	Quartz	TAG	1077	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51235	Quartz	TAG	1078	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51236	Quartz	TAG	1079	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51237	Quartz	TAG	1080	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51238	Quartz	TAG	1081	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51239	Quartz	TAG	1082	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51240	Quartz	TAG	1083	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51241	Quartz	TAG	1084	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51242	Quartz	TAG	1085	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51243	Quartz	TAG	1086	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51244	Quartz	TAG	1087	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51245	Quartz	TAG	1088	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51246	Quartz	TAG	1089	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51247	Quartz	TAG	1090	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51248	Quartz	TAG	1091	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51249	Quartz	TAG	1092	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51250	Quartz	TAG	1093	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51251	Quartz	TAG	1094	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51252	Quartz	TAG	1095	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51253	Quartz	TAG	1096	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51254	Quartz	TAG	1097	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51255	Quartz	TAG	1098	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51256	Quartz	TAG	1099	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51257	Quartz	TAG	1100	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51258	Quartz	TAG	1101	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51259	Quartz	TAG	1102	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51260	Quartz	TAG	1103	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51261	Quartz	TAG	1104	27-Jun-94	19-Jul-94	2-Apr-26	Active

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YB51262	Quartz	TAG	1105	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51263	Quartz	TAG	1106	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51264	Quartz	TAG	1107	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51265	Quartz	TAG	1108	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51266	Quartz	TAG	1109	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51267	Quartz	TAG	1110	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51268	Quartz	TAG	1111	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51269	Quartz	TAG	1112	27-Jun-94	19-Jul-94	2-Apr-28	Active
YB51270	Quartz	TAG	1113	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB51271	Quartz	TAG	1114	27-Jun-94	19-Jul-94	2-Apr-26	Active
YB55325	Quartz	TAG	1449	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55326	Quartz	TAG	1450	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55327	Quartz	TAG	1451	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55328	Quartz	TAG	1452	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55329	Quartz	TAG	1453	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55330	Quartz	TAG	1454	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55331	Quartz	TAG	1455	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55332	Quartz	TAG	1456	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55333	Quartz	TAG	1457	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55334	Quartz	TAG	1458	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55335	Quartz	TAG	1459	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55336	Quartz	TAG	1460	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55337	Quartz	TAG	1461	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55338	Quartz	TAG	1462	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55339	Quartz	TAG	1463	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55340	Quartz	TAG	1464	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55341	Quartz	TAG	1465	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55342	Quartz	TAG	1466	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55343	Quartz	TAG	1467	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55344	Quartz	TAG	1468	18-Aug-94	31-Aug-94	2-Apr-26	Active
YB55346	Quartz	TAG	1505	23-Aug-94	31-Aug-94	2-Apr-26	Active
YB55348	Quartz	TAG	1507	23-Aug-94	31-Aug-94	2-Apr-26	Active
YB55350	Quartz	TAG	1509	23-Aug-94	31-Aug-94	2-Apr-26	Active
YB55377	Quartz	TAG	1538	23-Aug-94	31-Aug-94	2-Apr-26	Active
YB55899	Quartz	TAG	1469	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55900	Quartz	TAG	1470	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55901	Quartz	TAG	1471	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55902	Quartz	TAG	1472	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55903	Quartz	TAG	1473	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55904	Quartz	TAG	1474	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55905	Quartz	TAG	1475	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55906	Quartz	TAG	1476	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55907	Quartz	TAG	1477	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55908	Quartz	TAG	1478	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55909	Quartz	TAG	1479	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55910	Quartz	TAG	1480	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55911	Quartz	TAG	1481	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55912	Quartz	TAG	1482	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55913	Quartz	TAG	1483	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55914	Quartz	TAG	1484	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55915	Quartz	TAG	1485	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55916	Quartz	TAG	1486	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55917	Quartz	TAG	1487	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55918	Quartz	TAG	1488	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55919	Quartz	TAG	1489	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55920	Quartz	TAG	1490	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55921	Quartz	TAG	1491	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55922	Quartz	TAG	1492	18-Aug-94	6-Sep-94	2-Apr-26	Active

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YB55923	Quartz	TAG	1493	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55924	Quartz	TAG	1494	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55925	Quartz	TAG	1495	18-Aug-94	6-Sep-94	2-Apr-26	Active
YB55926	Quartz	TAG	1496	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB55927	Quartz	TAG	1497	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB55928	Quartz	TAG	1498	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB55929	Quartz	TAG	1499	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB55930	Quartz	TAG	1500	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB55931	Quartz	TAG	1501	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB55934	Quartz	TAG	1536	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB55935	Quartz	TAG	1537	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB55936	Quartz	TAG	1539	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB55937	Quartz	TAG	1540	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB55938	Quartz	TAG	1541	22-Aug-94	6-Sep-94	2-Apr-26	Active
YB56713	Quartz	TAG	1544	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56714	Quartz	TAG	1545	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56715	Quartz	TAG	1546	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56716	Quartz	TAG	1547	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56717	Quartz	TAG	1548	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56718	Quartz	TAG	1549	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56719	Quartz	TAG	1550	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56720	Quartz	TAG	1551	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56721	Quartz	TAG	1552	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56722	Quartz	TAG	1553	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56729	Quartz	TAG	1560	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56730	Quartz	TAG	1561	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56731	Quartz	TAG	1562	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56732	Quartz	TAG	1563	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56733	Quartz	TAG	1564	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56734	Quartz	TAG	1565	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56735	Quartz	TAG	1566	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56736	Quartz	TAG	1567	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56737	Quartz	TAG	1568	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB56738	Quartz	TAG	1569	16-Nov-94	30-Nov-94	2-Apr-26	Active
YB62677	Quartz	ON	21	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62678	Quartz	ON	22	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62679	Quartz	ON	23	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62680	Quartz	ON	24	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62681	Quartz	ON	25	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62682	Quartz	ON	26	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62683	Quartz	ON	27	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62684	Quartz	ON	28	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62685	Quartz	ON	29	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62686	Quartz	ON	30	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62687	Quartz	ON	31	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62688	Quartz	ON	32	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62689	Quartz	ON	33	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62690	Quartz	ON	34	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62691	Quartz	ON	35	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62692	Quartz	ON	36	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62693	Quartz	ON	37	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62694	Quartz	ON	38	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62695	Quartz	ON	39	17-Sep-95	2-Oct-95	2-Apr-26	Active
YB62696	Quartz	ON	40	17-Sep-95	2-Oct-95	2-Apr-26	Active
YB62697	Quartz	ON	41	17-Sep-95	2-Oct-95	2-Apr-26	Active
YB62698	Quartz	ON	42	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62699	Quartz	ON	43	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62700	Quartz	ON	44	14-Sep-95	2-Oct-95	2-Apr-26	Active

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YB62701	Quartz	ON	45	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62702	Quartz	ON	46	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62703	Quartz	ON	47	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62704	Quartz	ON	48	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62705	Quartz	ON	49	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62706	Quartz	ON	50	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62707	Quartz	ON	51	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62708	Quartz	ON	52	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62709	Quartz	ON	53	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62710	Quartz	ON	54	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62711	Quartz	ON	55	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62712	Quartz	ON	56	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62713	Quartz	ON	57	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62714	Quartz	ON	58	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62715	Quartz	ON	59	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62716	Quartz	ON	60	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62717	Quartz	ON	61	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62718	Quartz	ON	62	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62719	Quartz	ON	63	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62720	Quartz	ON	64	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62721	Quartz	ON	65	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62722	Quartz	ON	66	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62723	Quartz	ON	67	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62724	Quartz	ON	68	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62725	Quartz	ON	69	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62726	Quartz	ON	70	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62727	Quartz	ON	71	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62728	Quartz	ON	72	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62729	Quartz	ON	73	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62730	Quartz	ON	74	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62731	Quartz	ON	75	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62732	Quartz	ON	76	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62733	Quartz	ON	77	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62734	Quartz	ON	78	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62735	Quartz	ON	79	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62736	Quartz	ON	80	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62737	Quartz	ON	81	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62738	Quartz	ON	82	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62739	Quartz	ON	83	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62740	Quartz	ON	84	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62741	Quartz	ON	85	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62742	Quartz	ON	86	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62743	Quartz	ON	87	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62744	Quartz	ON	88	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62745	Quartz	ON	89	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62746	Quartz	ON	90	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62747	Quartz	ON	91	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62748	Quartz	ON	92	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62749	Quartz	ON	93	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62750	Quartz	ON	94	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62751	Quartz	ON	95	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62752	Quartz	ON	96	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62753	Quartz	ON	97	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62754	Quartz	ON	98	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62755	Quartz	ON	99	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62756	Quartz	ON	100	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62757	Quartz	ON	101	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62760	Quartz	ON	104	14-Sep-95	2-Oct-95	2-Apr-26	Active

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YB62761	Quartz	ON	105	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62762	Quartz	ON	106	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62763	Quartz	ON	107	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62764	Quartz	ON	108	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62765	Quartz	ON	109	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62766	Quartz	ON	110	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62767	Quartz	ON	111	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62768	Quartz	ON	112	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62769	Quartz	ON	113	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62772	Quartz	ON	116	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62773	Quartz	ON	117	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62774	Quartz	ON	118	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62775	Quartz	ON	119	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62776	Quartz	ON	120	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62777	Quartz	ON	121	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62778	Quartz	ON	122	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62779	Quartz	ON	123	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62780	Quartz	ON	124	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62781	Quartz	ON	125	14-Sep-95	2-Oct-95	2-Apr-26	Active
YB62816	Quartz	ON	162	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62817	Quartz	ON	163	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62818	Quartz	ON	164	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62819	Quartz	ON	165	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62820	Quartz	ON	166	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62821	Quartz	ON	167	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62822	Quartz	ON	168	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62823	Quartz	ON	169	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62824	Quartz	ON	170	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62825	Quartz	ON	171	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62826	Quartz	ON	172	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62827	Quartz	ON	173	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62828	Quartz	ON	174	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62830	Quartz	ON	176	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62832	Quartz	ON	178	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62834	Quartz	ON	180	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62851	Quartz	ON	197	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62852	Quartz	ON	198	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62853	Quartz	ON	199	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62854	Quartz	ON	200	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62855	Quartz	ON	201	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62856	Quartz	ON	202	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62857	Quartz	ON	203	16-Sep-95	2-Oct-95	2-Apr-26	Active
YB62859	Quartz	ON	205	17-Sep-95	2-Oct-95	2-Apr-26	Active
YB85276	Quartz	KZK	1	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85277	Quartz	KZK	2	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85278	Quartz	KZK	3	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85279	Quartz	KZK	4	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85280	Quartz	KZK	5	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85281	Quartz	KZK	6	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85282	Quartz	KZK	7	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85283	Quartz	KZK	8	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85284	Quartz	KZK	9	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85285	Quartz	KZK	10	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85286	Quartz	KZK	11	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85287	Quartz	KZK	12	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85288	Quartz	KZK	13	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85289	Quartz	KZK	14	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85290	Quartz	KZK	15	1-Jul-96	12-Jul-96	2-Apr-26	Active

Grant Number	Tenure Type	Claim Name	Claim Number	Staking Date	Recording Date	Expiry Date	Claim Status
YB85291	Quartz	KZK	16	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85292	Quartz	KZK	17	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85293	Quartz	KZK	18	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85294	Quartz	KZK	19	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85295	Quartz	KZK	20	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85296	Quartz	KZK	21	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85297	Quartz	KZK	22	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85298	Quartz	KZK	23	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85299	Quartz	KZK	24	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85300	Quartz	KZK	25	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85301	Quartz	KZK	26	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85302	Quartz	KZK	27	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85303	Quartz	KZK	28	1-Jul-96	12-Jul-96	2-Apr-26	Active
YB85304	Quartz	KZK	29	1-Jul-96	12-Jul-96	2-Apr-26	Active

Appendix D: 2017 Drill Collar Locations and Orientations

This appendix contains the most up-to-date collar coordinates[1] for all 2017 drill holes. The survey type used to locate the collar is indicated as either differential GPS ("RTK DGPS"), handheld GPS ("GPS") or the planned co-ordinates ("PLND-LiDAR").

Table D-1: Survey collar information for 2017 diamond drill holes

Hole ID	Easting	Northing	Elevation (m)	Length (m)	Azimuth (°)	Dip (°)	Survey Type
K17-420	414858.1	6815672	1395.538	200	50	-60	RTK DGPS
K17-421	413858.1	6818533	1483.499	40.65	0	-90	RTK DGPS
K17-422	414747.5	6815639	1412.02	221	300	-60	RTK DGPS
K17-423	414145.9	6817925	1475.484	40.79	0	-90	RTK DGPS
K17-424	414640.2	6815500	1432.891	170	280	-60	RTK DGPS
K17-425	414603.4	6816985	1430.601	40.82	0	-90	RTK DGPS
K17-426	414755	6816452	1440	28.9	0	-90	GPS
K17-426B	414761.5	6816450	1438.913	40.48	0	-90	RTK DGPS
K17-427	414754.7	6815752	1410.856	152	315	-60	RTK DGPS
K17-428	414899.6	6817018	1394.9	40.62	0	-90	RTK DGPS
K17-429	414961.5	6816579	1405.926	36.08	0	-90	RTK DGPS
K17-430	415127.6	6815550	1397.332	182	25	-60	RTK DGPS
K17-431	414852.6	6815653	1395.733	4.14	0	-90	RTK DGPS
K17-432	414693	6815651	1400	4.27	0	-90	GPS
K17-433	414857.3	6815818	1392.854	4.57	0	-90	RTK DGPS
K17-434	414806.9	6815495	1398.862	3.57	0	-90	RTK DGPS
K17-435	414690.9	6815487	1421.457	8.65	0	-90	RTK DGPS
K17-436	414693	6815793	1385	4.27	0	-90	GPS
K17-437	414984	6814934	1388.882	152	160	-60	RTK DGPS
K17-438	415179.2	6815390	1413.986	191	110	-60	RTK DGPS
K17-439	415400.3	6815418	1515.586	120	110	-60	RTK DGPS
K17-440	415113.2	6815090	1395.656	152	50	-60	RTK DGPS
K17-441	415688.5	6817011	1444.33	40.19	0	-90	RTK DGPS
K17-442	415570.3	6817625	1442.522	39.98	0	-90	RTK DGPS
K17-443	415172.2	6817541	1350.345	38.5	0	-90	RTK DGPS
K17-444	414999.8	6818210	1347.285	43.97	0	-90	RTK DGPS
K17-445	414961.8	6818198	1333.783	41.12	0	-90	RTK DGPS
K17-446	414866.8	6818176	1345.231	39.66	0	-90	RTK DGPS

Hole ID	Easting	Northing	Elevation (m)	Length (m)	Azimuth (°)	Dip (°)	Survey Type
K17-447	415055	6816226	1380	452	171.94	-84.33	PLND-LiDAR
K17-448	415452	6817253	1420	1017	176.47	-85.31	PLND-LiDAR
K17-449	414691	6817002	1420	800	177.14	-83.34	GPS
K17-450	414789	6815649	1404	182	179.12	-75.81	GPS
K17-451	414827.6	6817153	1404.154	11.12	0	-90	RTK DGPS
K17-452	414927.7	6817173	1392.135	40.53	0	-90	RTK DGPS
K17-453	414872.9	6817419	1387.588	11.3	0	-90	RTK DGPS
K17-454	414909.3	6817579	1374.573	11.19	0	-90	RTK DGPS
K17-455	414686.2	6817507	1411.881	12.8	0	-90	RTK DGPS
K17-456	414792.6	6817334	1404.407	11.21	0	-90	RTK DGPS
K17-457	414923.1	6817395	1387.189	11.29	0	-90	RTK DGPS
K17-458	414876.8	6817390	1389.552	41.3	0	-90	RTK DGPS
K17-459	414882	6817361	1391.948	41.3	0	-90	RTK DGPS
K17-460	414887.3	6817329	1392.875	40.55	0	-90	RTK DGPS
K17-461	414909.4	6817280	1391.87	42.8	0	-90	RTK DGPS
K17-462	414893.6	6817280	1393.833	42.8	0	-90	RTK DGPS
K17-463	414954	6817279	1386.647	12.22	0	-90	RTK DGPS
K17-464	414841.4	6817083	1399.842	40.39	0	-90	RTK DGPS
K17-465	414512.2	6815099	1478.02	10.62	0	-90	RTK DGPS
K17-466	414486.7	6815027	1480.208	15.05	0	-90	RTK DGPS

[1] Easting and Northing coordinates are presented in UTM Zone 9, NAD83 projection

Appendix E: Terrain Hazard Report (Core Geoscience Services)

Coregeo and Associates

Terrain Stability and Hazard Mapping for the Kudz Ze Kayah Project, Yukon

Project #s
BMC-17-01/170341

Prepared For
BMC Minerals (No. 1) LTD

October 30, 2017

C o r e g e o a n d A s s o c i a t e s

11 Dolly Varden Drive, Whitehorse, YT Y1A 6A1 t: 867-336-2673

October 30, 2017

Kelli Bergh, B.Sc., MET, R.P.Bio.
Environmental Manager
BMC Minerals (No. 1) LTD
530-1130 West Pender Street
Vancouver, BC V6E 4A4

Dear Ms. Bergh:

Re: Terrain Stability and Hazard Mapping for the Kudz Ze Kayah Project, Yukon
Project #s: BMC-17-01/170341

Coregeo and Associates is pleased to provide BMC Minerals (No. 1) LTD with the results of the terrain stability and hazard mapping and related risk assessment for the Kudz Ze Kayah (KZK) Project, in southeastern Yukon.

This report, in combination with the appended terrain map (Map 1) and terrain stability, hazards and risks maps (Maps 2 and 3), provides the information necessary to support a response to an information request (R162) made by the Yukon Environmental and Socio-economic Assessment Board (YESAB) in its adequacy review of the Project Proposal. The report and accompanying maps characterize the types and distribution of terrain hazards within the proposed mine site area and along the access road corridor, many of which are influenced by permafrost or periglacial processes. A distinction is made between existing terrain stability and projected terrain stability in response to potential disturbance from project-related construction and/or climate change. Opportunities for mitigating site-specific risks to the project are identified to demonstrate the feasibility of reducing risk to negligible levels.

Should you, YESAB or YESAB's technical reviewers have any questions or require additional information related to this study, please feel free to contact me, Eri Boye, at 867-336-2673 or via email at eri@coregeo.ca.

We appreciate the opportunity to support the advancement of the KZK Project.

Yours truly,
Coregeo and Associates

Eri Boye, M.Sc., P.Geo.

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List of Abbreviations

ABM	Name of mineral deposit
AEG	Alexco Environmental Group
BMC	BMC Minerals (No. 1) LTD
Coregeo	Core Geoscience Services Inc.
DEM	Digital elevation model
Golder	Golder Associates Ltd.
IPCC	Intergovernmental Panel on Climate Change
IR	Information request
km	Kilometres
KM	Kilometre marker (along proposed access road, including existing sections)
KP	Knight Piésold
KZK	Kudz Ze Kayah
LiDAR	Light Detection and Ranging
m	Metres
m.a.s.l	Metres above sea level
OEL	Onsite Engineering Ltd.
PECG	Palmer Environmental Consulting Group Inc.
RCP	Representative Concentration Pathway
SNAP	Scenarios Network for Alaska + Arctic Planning
VMS	Volcanogenic massive sulphide
YESAB	Yukon Environmental and Socio-economic Assessment Board
YGS	Yukon Geological Survey

1. Introduction

Coregeo and Associates, a collaboration of Core Geoscience Services Inc. (Coregeo) and Palmer Environmental Consulting Group Inc. (PECG) with Dr. Derek Turner in the role of a technical advisor, is pleased to provide BMC Minerals (No. 1) LTD (BMC) with the results of our team's terrain stability and hazard mapping for the Kudz Ze Kayah (KZK) Project (the Project), in southeastern Yukon. The mapping and assessment work was completed in accordance with the hazard assessment guidelines of Yukon Environmental and Socio-economic Assessment Board (YESAB) (Guthrie and Cuervo, 2015; hereinafter referred to as YESAB's Geohazards Guide), in order to address the information request (IR) R162 made by YESAB in association with its review of the adequacy of the Project Proposal and subsequent responses from BMC. Terrain, terrain stability and hazards were mapped within the proposed mine area and along its access corridor. Projected terrain stability and hazards were distinguished from existing conditions in order to document where and how climate change and/or mine development could increase instabilities in the absence of appropriate mitigation. A risk assessment was completed for each hazard that poses a credible risk to project infrastructure.

Pertinent background information to this study is provided in Section 1, followed by a description of the region's physical setting in Section 2. The methods used for field work, mapping, hazard identification and risk evaluation are detailed in Section 3. Dominant terrain units and geomorphological processes encountered within the study area are characterized in Section 4. Section 5 presents the results of the terrain stability and hazard mapping, and summarizes the general distribution, characteristics and implications of hazards. Site-specific risks to project infrastructure, whether natural or driven by effects of the project on terrain stability, are identified and evaluated in Section 6 along with consideration of opportunities for mitigation. Key conclusions are highlighted in Section 7, followed by acknowledgment of study limitations in Section 8.

Mapping of terrain (Map 1), existing (baseline conditions) terrain stability and hazards (Map 2), and disturbed (projected conditions) terrain stability, hazards and unmitigated risks (Map 3) are provided in **Appendices A**, **B** and **C**, respectively.

1.1 Background

BMC is proposing to develop the KZK Project, a volcanogenic massive sulphide (VMS) deposit containing economic concentrations of copper, lead, zinc, gold and silver (Alexco Environmental Group (AEG), 2017). The proposed mine area is situated in the headwaters of Geona Creek, a tributary of Finlayson Creek, approximately 115 km southeast of Ross River, Yukon (**Figure 1-1**)[1]. Mining is proposed using both open pit and underground methods. Ore will be processed into separate copper, lead and zinc concentrates via sequential flotation at ~2 million tonnes per year, over an approximate ten-year mine life. Dry stack tailings are proposed to be deposited in the Class A Storage Facility on the western slope of the valley. Waste rock will be stored according to acid generation and metal leaching potential; strongly acid-generating material will be disposed within tailings or alternatively stored in mined-out areas of the open pit and underground workings, while other waste rock material will be placed on the surface in managed facilities.

[1] *All proposed infrastructure/building footprints and related terminologies used in this report and the accompanying mapping are based on the ArcGIS shapefiles provided by BMC on September 5, 2017.*

410000 415000 420000 425000

6835000 6830000 6825000 6820000 6815000

Finlayson River

Robert Campbell Highway

4

Campbell Creek

Finlayson Creek

Liard Basin

Yukon Plateau-North

ACCESS ROAD CORRIDOR
1:20,000 Mapping Scale

MINE SITE AREA
1:10,000
Mapping Scale

Geona Creek

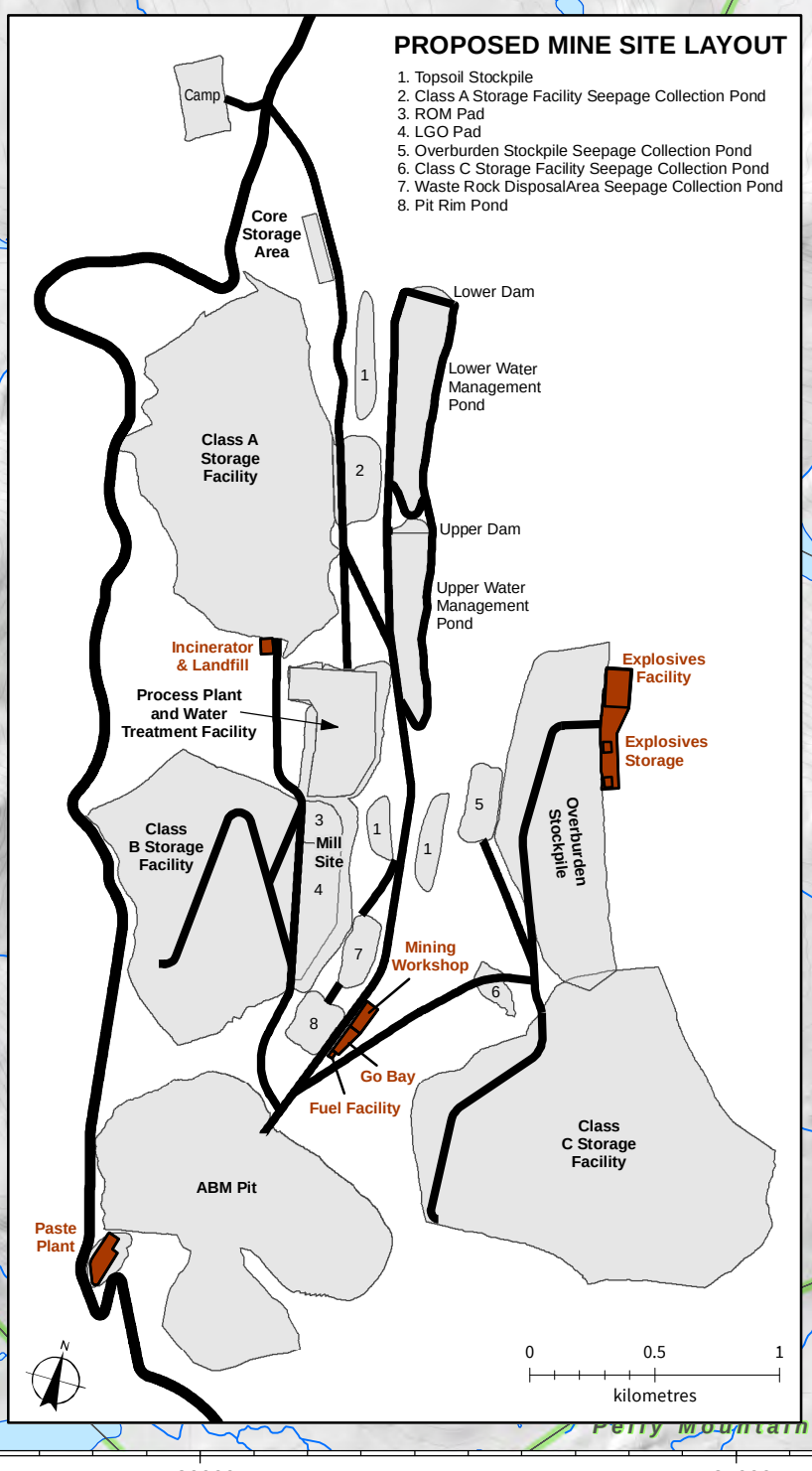
Fault Creek

Pelly Mountains

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

PROPOSED MINE SITE LAYOUT

1. Topsoil Stockpile
2. Class A Storage Facility Seepage Collection Pond
3. ROM Pad
4. LGO Pad
5. Overburden Stockpile Seepage Collection Pond
6. Class C Storage Facility Seepage Collection Pond
7. Waste Rock DisposalArea Seepage Collection Pond
8. Pit Rim Pond



Client: BMC Minerals
Project: Kudz Ze Kayah Project

PREPARED BY:
PALMER ENVIRONMENTAL CONSULTING GROUP INC.
PROJECT: 170341
DATE: Oct 2, 2017
DRAWN: B. Elder
CHECKED: R. McKillop

BMC MINERALS
CORE GEOSCIENCE SERVICES

LEGEND

- Mine Site Area (1:10,000 Mapping)
- Access Road Corridor (1:20,000 Mapping)
- Proposed Mine Footprint
- Proposed Mine Building
- Ecoregion boundary
- Existing Section of Access Road
- Proposed Section of Access Road
- Kilometre Marker
- Field Observation Site

Note: contour interval is 20 metres.

N

0 1 2 3
kilometres

COORDINATE SYSTEM: NAD 1983 UTM ZONE 9N
SCALE: 1:70,000

Study Area

FIGURE 1-1

Document Path: C:\Egnyte\Shared\Projects\Active\17034 - Core Geoscience Services Inc\170341 KZK Terrain Hazard\Mapping\mxd\170341_KZK_Figure1-1_StudyArea.mxd

DATA SOURCES: Base data from CanVec, CDEM. Contains information licensed under the Open Government Licence - Canada.

An existing 25 km-long road used to access the proposed mine area from the Robert Campbell Highway will be upgraded to accommodate increased traffic and heavy equipment. Concentrate will be trucked 911 km to the port of Stewart, British Columbia, for sale to market.

In March 2017, BMC submitted its Project Proposal to YESAB for developing the KZK Project. Following a preliminary review of the Project Proposal, YESAB identified areas that required additional information, and provided a number of IRs for BMC to address in order for YESAB to deem the submission adequate for formal review. This study was completed in response to YESAB's identification of the omission of terrain stability mapping, the "preliminary and coarse" nature of the terrain analysis and hazard inventory (Knight Píesold Ltd. (KP), 2016a), and a lack of field assessment to confirm the extent of hazard processes within the Project area. Specifically, YESAB's IR R162 requested the following:

> *"Provide a terrain map, terrain stability and hazard map for the mine footprint and access road (including associated methodology and analysis) that:*
>
> *a. Identifies surficial geology and related geomorphologic processes;*
> *b. Identifies the type, nature, relative frequency and magnitude of hazards (baseline map);*
> *c. Evaluates how current hazard dynamic may be altered due to changes in climate;*
> *d. Identifies specific risks to the proposed infrastructure; and,*
> *e. Identifies specific risks to the environment from the proposed project (e.g.: changes to slope stability). The risk map should include consideration of climate change over the life of the Project."*

Deferring completion of such mapping to subsequent detailed design of the Project has been deemed unacceptable by YESAB. As such, BMC approached Coregeo to help complete the necessary mapping to help satisfy YESAB's IRs and to support general engineering planning. Coregeo then solicited the support of Dr. Derek Turner and PECG, recognized experts in slope- and permafrost-related terrain stability mapping in Yukon, to co-lead the technical aspects of the hazard mapping and risk assessment work.

1.2 Study Area

The Project is located in the eastern foothills of the Pelly Mountains, approximately 115 km southeast of Ross River and 250 km northeast of Whitehorse, Yukon (**Figure 1-1**). Detailed terrain stability and hazard mapping were completed to fully encompass all proposed mine site facilities and the existing access road from the Robert Campbell Highway. The buffer around the overall Project footprint was delineated such that any upslope or downslope instabilities or hazards could be identified, and minor adjustments in site or route selection could be accommodated. The 64 km^2 study area consists of two main sections:

1. **Access Road Corridor** – The proposed access to the proposed mine site generally follows an existing, two-lane gravel access road that extends from the Robert Campbell Highway southwestward for a distance of approximately 25 km to the mine site area. The proposed access road diverges from the existing alignment near KM 20.5[2], apart from a minor realignment between

[2] *Kilometre marker (KM) references made throughout the report are based on GIS-based generation of points at consistent distance intervals along the proposed (including existing) road shapefile (Figure 1-1); they may differ slightly from references by others.*

KMs 19 and 20, and terminates beside the proposed open pit at KM 26.75. Mapping was completed within a 27 km^2 corridor that has a minimum width of 1 km roughly centred along the existing road alignment, to inform plans for road upgrades, widenings and local realignments. The corridor was locally widened up to a width of 2.5 km to encompass heights of land where natural processes upslope could potentially affect infrastructure, and lower slopes potentially susceptible to retrogressive mass movements (**Figure 1-1**). From north to south, the road leaves the Robert Campbell Highway near KM 232 and follows gentle terrain west of the Finlayson Creek valley for approximately 17.5 km. The road crosses Finlayson Creek just upstream of its confluence with Geona Creek, and steadily climbs the western valley side of Geona Creek to the proposed mine site area just north of Fault Creek.

2. **Mine Site Area** – The proposed mine site is situated in the headwaters of Geona Creek, just north of Fault Creek. The 37 km^2 mine site study area encompasses the footprints of all proposed mine infrastructure, with a surrounding buffer that includes relevant heights of land. Key infrastructure within the overall mine footprint includes an open pit, waste rock and tailings storage facilities, an overburden stockpile, water management ponds and a mill site (**Figure 1-1**).

1.3 Objective

Coregeo and Associates completed project-specific terrain stability and hazard mapping to inform the siting and design of mine site facilities and the access road, and to comply with YESAB's hazard mapping expectations for Project Proposal submission (Guthrie and Cuervo, 2015). Three main tasks facilitated the successful completion of this project:

1. Delineation and characterization of distinct terrain units and geomorphological processes within the study area;
2. Identification of potential hazards posed by the environment on the Project, and by the Project on the environment (terrain stability effects); and
3. Evaluation of risks to project infrastructure, giving consideration to the implications of climate change.

2. Physical Setting

2.1 Physiography

The KZK Project straddles the Yukon Plateau-North and Pelly Mountain ecoregions as defined by Yukon Ecoregions Working Group (2004) (**Figure 1-1**). The northern part of the project area is located in the southeastern part of the Yukon Plateau-North ecoregion region, also known as the Ross Lowland physiographic region (Mathews, 1986). This area is characterized by rolling, east-west trending highlands and broadly incised river valleys, with elevations between 900 and 1,500 metres above sea level (m.a.s.l.) (Yukon Ecoregions Working Group, 2004). The southern portion of the project, encompassing the proposed mine area, is located within the Pelly Mountain ecoregion, characterized as a rolling plateau with numerous mountain peaks that are dissected by small rivers. Elevation in this region is generally above

1,500 m.a.s.l. (Yukon Ecoregions Working Group, 2004). The relief in the study area between valley bottoms and adjacent ridges ranges from about 300 to 900 m.
The proposed access road parallels and then crosses the Finlayson Creek valley, before ascending the western side of the tributary Geona Creek valley to the proposed mine site area near Fault Creek. Finlayson Creek, which flows into Finlayson River just downstream of the Robert Campbell Highway, has incised up to about 60 m through glacial drift into bedrock, which is locally exposed at the base of high cut-banks. Geona Creek exhibits little evidence of down-cutting, so its lower valley walls are generally gentle and lack prominent cut-banks.

2.2 Climate

2.2.1 Current

The climate of the Yukon Plateau-North ecoregion has a strong seasonal variability that is largely controlled by elevation changes throughout the region. Mean annual air temperature is near -5 ^{o}C. In lower valleys, the mean January temperatures are generally below -30 ^{o}C. At higher elevations, the mean January temperatures are above -20 ^{o}C (Yukon Ecoregions Working Group, 2004). Extreme temperature inversions commonly develop during winter once strong high pressure ridges develop. The gradient is reversed by July when mean temperatures are around 15 ^{o}C in the lower valley floors, and near 8 ^{o}C in higher terrain (Yukon Ecoregions Working Group, 2004). Between 1950 and 1998, the Canadian western Arctic experienced warming of 1.5 to 2 ^{o}C (Zhang et al., 2000). Observed mean annual air temperatures from 2000 to 2009 are in the -4 to -3 ^{o}C range (Scenarios Network for Alaska + Arctic Planning (SNAP), 2016).

Mean annual precipitation ranges from 300 to 600 mm across the region. The wettest period occurs during July and August, with convective rain showers and thunderstorms producing 40 mm to 80 mm of rain per month (Yukon Ecoregions Working Group, 2004). Observed annual precipitation conditions from 2000 to 2009 are in the 600 to 700 mm range (SNAP, 2016).

Lightning strikes are a common trigger for wildfires in the region. Yoshikawa et al. (2003) estimate natural wildfire recurrence of 50 to 300 years in the similar boreal forest of interior Alaska. Field observations from the study area corroborate the absence of recent wildfires in Yukon Government's fire history mapping database. The lack of recent wildfires is noteworthy, because fire has important implications for ground stability in areas of permafrost. Conditions may now be primed for an intense burn, and ongoing climate change has already increased lightning strikes elsewhere in south-central Yukon (Yukon Ecoregions Working Group, 2004).

2.2.2 Projected

Changing climate conditions for mean annual air temperature and precipitation have been modelled using different Representative Concentration Pathway (RCP) scenarios (Intergovernmental Panel on Climate Change (IPCC), 2013), and then downscaled for the region (SNAP, 2016), as reported by AEG (2017). The scenarios describe different climate futures dependant on how much greenhouse gas is emitted into the atmosphere. RCPs represent a range in radiative forcing values, measured in Watts per square metre (W/m^2), in the year 2100 compared to pre-industrial conditions. The specific climate change projection for the study area focuses on RCP values of +4.5 W/m^2 (RCP4.5) and +8.5 W/m^2 (RCP8.5), which correspond

to low and high radiative forcing scenarios, respectively. Some modelling results are different for the access road corridor and the mine site area due to physiographic differences (**Table 2-1**). In general, continued warming is projected over the mine life, with greater temperature increases forecasted along the access road corridor. Precipitation is only modelled to increase in the mine site area above 2,030 m.a.s.l. at the highest radiative forcing scenario. Because the modelled precipitation increase in the study area is within the spatial error of the modelling, some local increases may be expected.

Table 2-1. Summary of projected changes in mean annual temperature and precipitation in the region

	Observed 2000-2009		Projected 2020-2029		Projected 2030-2039	
RCP (W/m^2)	**Temp. (°C)**	**Precip. (mm)**	**Temp. (°C)**	**Precip. (mm)**	**Temp. (°C)**	**Precip. (mm)**
Access Road Corridor						
4.5	-4 to -3	500 to 600	-3 to -2	500 to 600	-3 to -2	500 to 600
8.5	-4 to -3	600 to 700	-3 to -2	500 to 600	-2 to -1	500 to 600
Mine Site Area						
4.5	-4 to -3	600 to 700	-4 to -3	600 to 700	-3 to -2	600 to 700
8.5	-4 to -3	600 to 700	-3 to -2	600 to 700	-3 to -2	700 to 800

Note: All data from SNAP (2016).

Climate variations have a significant impact on permafrost stability, with the potential to impact ground stability and infrastructure integrity (Benkert et al., 2015). The effects of climate change, specifically temperature increase, are already being observed on terrain stability within the study area. Active thermokarst subsidence and gullying have been observed throughout the study area, especially along the access road corridor, and the frequency of active-layer detachments may be increasing based on the lack of evidence of previous events in the same areas.

2.3 Bedrock Geology

2.3.1 Regional-scale

The following summary of regional bedrock geology has been adapted from Equity Exploration Consultants Ltd. (2016), AEG (2016) and Murphy et al. (2001). The KZK Project is located within the Finlayson Lake District, a crescent-shaped area located between Ross River in the north and Watson Lake in the south. The Finlayson Lake District is composed of Devonian to Mississippian volcanic, intrusive and sedimentary rocks. It is underlain by polydeformed, metamorphosed sedimentary, volcanic and plutonic rocks of the Yukon–Tanana terrane, which extends from central British Columbia to eastern Alaska.

In the vicinity of the Finlayson Lake District, the Yukon–Tanana terrane comprises foliated and lineated greenschist to lower amphibolite-grade metasedimentary, metavolcanic and metaplutonic rocks. The Yukon–Tanana terrane was imbricated by Permian thrust faulting into the Cleaver Lake, Money and Big Campbell thrust sheets. The KZK Project is located within the Big Campbell thrust sheet, which is the structurally deepest of the Yukon–Tanana terrane. The Grass Lake and Wolverine middle Palaeozoic unconformity-bound groups are exposed in the Big Campbell thrust.

The VMS deposit (including the ABM Deposit and its deep Krakatoa zone) occurs within the KZK formation, which is primarily hosted within felsic metavolcanic and metaplutonic rocks of the upper Grass Lakes sequence. The KZK formation in the vicinity of the ABM deposit comprises a thick sequence of felsic volcanic schist interbedded with variably carbonaceous metasedimentary and calcareous mafic schist units.

2.3.2 Site-scale

Surface bedrock in the mine site area is expressed as highly fractured, strongly foliated, polydeformed, metavolcanic and metasedimentary schist with frequent mafic intrusions. Foliation dips gently to the north. The northern portion of the mine and mill infrastructure area consists of the upper KZK formation and the Wind Lake formation, which are primarily carbonaceous metasedimentary schist. Outcrops with significant relief are infrequent in the study area. The best bedrock exposures are a result of faulting, meltwater incision or post-glacial erosion along creeks. Significant phylosillicate content results in fissile bedrock that is commonly highly weathered within its upper few metres. Occasional, more resistant, metre-scale layers form blocky outcrops and float. The weathering of micaceous bedrock has resulted in the formation of micaceous B and C soil horizons. Competent, stream-cut bluffs of limestone occur along lower Finlayson Creek and punctuate a prominent hill southwest of the access road's divergence from the Robert Campbell Highway.

2.3.3 Seismicity

According to Cominco (1997), Hyndman et al. (2005) and KP (2016b), the project is in an area of low seismic activity. Despite being only about 30 km away, the Tintina Fault is not considered to be active by the Geological Survey of Canada (Cominco, 1997). No earthquakes with magnitudes >6.0 have occurred in the vicinity of the project since 1600, and only a few with magnitudes >3.5 have occurred between 1973 and 2012 (KP, 2016b). As such, triggers other than earthquakes are likely responsible for most mass movements within the study area.

2.4 Surficial Geology and Quaternary History

The study area has been glaciated repeatedly throughout the Pleistocene. Most of the remnant glacial features seen in the current landscape were formed during the most recent, McConnell glaciation that occurred roughly 25-10 ka (Bostock, 1966; Bond and Plouffe, 2002). Glacial advance in the region is characterized by localized valley glaciers that coalesced into several distinct ice lobes, forming an ice sheet, with an ice divide thought to be just east of the project area, in the Wolverine Lake region (Bond and Plouffe, 2002). At glacial maximum, the Cordilleran Ice Sheet reached elevations between 1,550 and 1,900 m.a.s.l. near Faro and Ross River (Jackson, 1994), and ice flowed north-northwest from the Pelly Mountains across the study area.

Deglaciation in the study area was complicated. Initial active frontal retreat of the ice sheet, with minor re-advances, progressed until the equilibrium line rose above the ice elevation, leading to final stagnation and downwasting of the ice sheet (Jackson, 1994; Benkert et al., 2015). Deglaciation first occurred in alpine regions where ice was thinner and may have stagnated for much longer in valley bottoms (Bond and Plouffe,

2002), leading to deposition of thick and highly disturbed supraglacial sediments in valley bottoms and progressively lower lake elevations blocked by melting ice in the valley floor (Benkert et al., 2015).

Much of the region is underlain by till of variable thickness, locally overlain by glaciolacustrine sand, silt and clay, and glaciofluvial sand and gravel (outwash) (Turner, 2014). Till is also the dominant surficial material within the study area; however, thick deposits are confined to the Finlayson Creek valley bottom, while thinner veneers and blankets up to 10 m in thickness occur on valley sides and at higher elevations. Large glaciofluvial complexes overlie the till near the Robert Campbell Highway, at the confluence of Geona and Finlayson Creeks, and in localized areas within the mine site area. Colluvial aprons are localized at the base of steeper slopes, and colluvial veneers to blankets predominate in steep, mountainous terrain. Bedrock exposure is restricted to mountain ridges and spurs, and stream-cut bluffs.

A conspicuous layer of White River Ash is commonly visible at or near surface in road cuts and soil pits, providing a convenient stratigraphic marker and evidence of localized ground stability for the past 1,147 years (Clague et al., 1995).

2.5 Permafrost

2.5.1 Distribution

Permafrost is ground that remains below 0ºC for more than one year. The study area is within the zone of extensive discontinuous permafrost, in which 50 to 90% of the ground is underlain by permafrost (Heginbottom et al., 1995). Recent permafrost modelling completed by Bonnaventure et al. (2012) for southern Yukon indicates that there is a 60 to 90% probability of encountering permafrost within most of the study area, with the highest probabilities at higher elevations. Locally, permafrost distribution is related to slope aspect, angle and shape, soil texture and moisture, and the thickness and type of organic cover (Williams, 1995; Williams and Burn, 1996). Permafrost is most common on high-elevation, north-facing slopes and in thick deposits of fine-grained material, particularly where insulated by a thick organic cover. Steep, well drained, south-facing slopes are permafrost-free.

A variety of landforms indicates the presence of permafrost within the study area, including thermokarst ponds and gullies, active-layer detachments, solifluction[3] lobes and terraces, and slopewash runnels. Vegetation distribution and growth habitat can be reasonable predictors of permafrost presence or absence within surficial material, although local disequilibrium of permafrost and present climate can mislead these inferences. In general, deciduous trees root more deeply than coniferous trees, and are unable to grow in thin active layers where soils are permanently wet or saturated. Stands of trembling aspen are invariably restricted to permafrost-free ground (Zoltai and Pettapiece, 1973; Williams, 1995). Conversely, black spruce is tolerant of cool, saturated soils and commonly grows in areas underlain by permafrost. A sparse, stunted canopy of black spruce with thick moss cover is a reliable indicator of shallow permafrost. Permafrost is commonly absent from riparian zones along active channels due to sufficiently deep flows that remain unfrozen at depth during winter (i.e., talik), and a high groundwater table with efficient down-valley flow through permeable sand and gravel.

[3] *Solifluction is most commonly associated with gradual downslope movement of saturated material over the permafrost table ("gelifluction"), but its occurrence over other impermeable surfaces such as bedrock preclude it from being a definitive indication of permafrost.*

Maximum thicknesses of permafrost within the study area and broader Yukon Plateau-North and Pelly Mountain ecoregions are variable. In the southern part of the Yukon Plateau-North ecoregion, permafrost thicknesses of up to 24 m are reported, but are more commonly 15 to 18 m (Yukon Ecoregions Working Group, 2004). A thickness of 40 m has been measured in the Pelly Mountains southwest of the project area (Heginbottom et al., 1995).

2.5.2 Active Layer

The active layer is the upper layer of ground that freezes and thaws seasonally above the permafrost table. It may be restricted to soils and unconsolidated surficial materials, or it may extend into underlying, weathered or intact bedrock. At a local scale, its thickness primarily depends on elevation, aspect, soil texture, drainage, snow pack, vegetation cover and wildfire history (Williams and Burn, 1996; McKillop et al., 2013). The active layer is generally 1 to 2 m thick within the region encompassing the study area (Yukon Ecoregions Working Group, 2004; this study). Well drained, coarse-grained soils tend to have thicker active layers than poorly drained and fine-grained areas. In areas of thick, mossy organic cover, permafrost may be encountered at depths as shallow as just a few tens of centimetres. Areas with thick organic cover and variable moisture contents exhibit the greatest spatial variability in active layer thickness (Smith et al., 2009).

Active layer thickness varies seasonally and in response to natural and anthropogenic disturbances. Each year, active layer thickness increases following spring snowmelt and typically peaks in late summer (September), before refreezing in the autumn. Active layers thicken by up to several times their original thickness following wildfire, which burns most or all of the insulating surface organic mat, reduces interception of snow by trees (where present), lowers the surface albedo, increases exposure to solar radiation, and decreases evapotranspiration (Burn, 1998; Smith et al., 2015).

2.5.3 Ground Ice

Permafrost may or may not contain ice. The ice content of permafrost is highly variable at both the regional and local scale. Areas of intact or weathered bedrock and well drained, coarse-grained colluvial mantles with permafrost generally contain little to no visible ice. Such ice-poor permafrost is common in upland settings, on summits and along ridges and spurs, and on moderate to moderately steep valley sides with convex slopes. Permafrost more commonly contains excess ice[4] in the form of thin seams and lenses in thick, silt-rich lower-slope and till deposits, and in organic terrain. Ice-rich permafrost with extensive, segregated ice is most commonly encountered in thick deposits of silty till that underlie northern portions of the access road in valley bottom settings. A freshly exposed, vertical sidescarp along the wall of a deep thermokarst gully near KM 7.5 of the access road revealed more than 1 m of permafrost visually estimated to have volumetric ice content in excess of 50% (**Photo 2-1**). Enlarging thermokarst (thaw) lakes in valley bottoms and along adjacent, flat-topped benches provide evidence of locally high ice contents. Golder Associates Ltd. (Golder) (1996) reports encountering permafrost with discontinuous ice lenses and volumetric ice contents of 5 to 30% in geotechnical boreholes within the footprints of several of the proposed mine facilities.

[4] *The term excess ice is used throughout the report to represent the condition in which the volume of ice in the ground exceeds the total pore volume the ground would have under natural, unfrozen conditions.*

Photo 2-1. Ice-rich permafrost within till exposed in sidescarp of thermokarst gully near KM 7.5 of the existing access road to the KZK Project

Ground ice is sensitive to melting in response to permafrost degradation (thaw). Permafrost degradation occurs naturally over different time scales in response to localized surface disturbances such as wildfire or windthrow, which alter the ground thermal regime by removing the insulating surface organics. Similarly, climate change can result in permafrost degradation. Warmer air temperatures, especially in winter, can inhibit complete freezing of the active layer and, in turn, promote its thickening. Anomalously intense or prolonged late-summer rainfalls or anomalously deep winter snowpacks can further accelerate thaw and the melting of ground ice.

Anthropogenic disturbances also alter the ground thermal regime and are a common trigger for permafrost degradation. The most common triggers are (1) stripping or compaction of surface organic layer, which insulates the ground in summer; (2) unnatural concentration of surface and near-surface runoff through culverts and along ditches, increasing the potential for thermal (ponding) or fluvio-thermal (flowing) erosion; (3) repeated ploughing of snow into the same locations, commonly along roadside ditches, such that it accumulates and inhibits cold penetration that normally freezes the active layer during winter. Permafrost degradation has little to no effect on ground surface topography or stability in areas of ice-poor permafrost or where the permafrost table is below surficial material within weathered or intact bedrock. Areas of ice-rich permafrost within fine-grained materials, even if mantled by coarser-grained material, may be susceptible to thermokarst subsidence in response to permafrost degradation.

3. Methods

Coregeo and Associates employed a systematic approach for completing terrain stability and hazard mapping for the Project, leveraging extensive experience mapping permafrost-related mass movement hazards throughout Yukon. Each main phase of work is described below.

3.1 Background Review and Consultation

Coregeo and Associates strengthened our pre-existing understanding of terrain characteristics and related hazards within the study area by reviewing the following data sources:

- Terrain analysis report and accompanying maps for the KZK Project (KP, 2016a);
- Terrain and soils chapter of the Project Proposal submission to YESAB (AEG, 2017);
- Geotechnical and hydrogeological site investigation for the KZK Project (Golder, 1996);
- Geotechnical site investigation data reports for the KZK Project (KP, 2016c,d, 2017);
- Prefeasibility design report for the KZK Project (KP, 2016b);
- Access road upgrade construction management plan for the KZK Project (Onsite Engineering Ltd. (OEL), 2017);
- High-resolution (30 cm) aerial photography (orthorectified, 2016; stereo-models, 2017) (2017) encompassing the study area;
- Historical aerial photography (georeferenced, 1992 and 1995) encompassing the mine area, with select coverage of older imagery to encompass particular hazard sites;
- High-resolution (50 cm) LiDAR-derived digital elevation model (DEM) from 2016, with derived bare earth hillshade and slope classification models;
- Regional-scale (1:100,000) surficial geology encompassing the study area (Jackson, 1993a,b);
- Regional-scale bedrock geological mapping (Gordey and Makepeace, 2003);
- Quaternary geology characterization of the region encompassing Finlayson Lake (Bond and Plouffe, 2002);
- 30 m-resolution permafrost probability model for southern Yukon (Bonnaventure et al., 2012);
- Shapefile of territory-wide wildfire history (from GeoYukon) fire history;
- Territory-wide glacial limits mapping (Duk-Rodkin, 1999); and
- Earthquakes and seismic hazard mapping encompassing Yukon (Hyndman et al., 2005; KP, 2016b).

Coregeo and Associates also took advantage of our existing collaborative working relationships with senior staff at Yukon Geological Survey (YGS) to acquire local knowledge from their field experience in the study area. Mr. Jeff Bond (Manager, Surficial Geology, YGS) was consulted about his knowledge of the surficial geology and terrain hazards within the study area. Mr. Bond alerted us to the potential for outburst floods from sudden breaches of beaver dams, based on his awareness of such an event not far from the project area.

3.2 Field Investigations

Field work was completed prior to completion of the terrain stability mapping to ensure on-the-ground observations were made in the absence of snow and ice cover, and to allow time for the processing of newly acquired 2017 aerial photography on which subsequent mapping was based. A thorough review of available data sources identified above in Section 3.1 in advance of field work ensured field investigations provided satisfactory representation of the diversity of terrain and hazards within the study area. Areas with the greatest potential for instability were prioritized for field investigation.

Field investigations were conducted throughout the study area by a two-person crew comprising PECG's Senior Geomorphologist, Robin McKillop, M.Sc., P.Geo. and Coregeo's Senior Environmental Geoscientist, Ethan Allen, M.Sc. from September 8 to 11, 2017. Conditions were favourable for field work: the ground was free of frost and snow, active layer thicknesses were near their annual maxima, and weather conditions were typically a mix of sun and cloud without any significant showers. A helicopter was used strategically to conduct an overview reconnaissance flight of the mine site and access corridor at the start of the program, to facilitate access for foot traverses through proposed infrastructure footprints, and to optimize photographic perspectives of observed hazard sites. A 4WD pick-up truck was used to access sites along maintained sections of the existing access road.

Observations from more than 300 sites were recorded based on visual reconnaissance during short stops along foot traverses, vehicle-supported access or helicopter fly-overs (**Figure 1-1**). Most observations related to surficial material thickness, vegetation associations, drainage, and evidence of instability or permafrost characteristics. Accompanying photographic documentation was collected at the majority of observation sites. During foot traverses, existing natural (e.g., landslide headscarp, stream cut-bank) and anthropogenic (e.g., road cut, borrow pit) exposures of surficial materials were targeted for examination. Hand-dug soil pits were excavated and studied in areas without good exposures. A 1.2 m-long steel frost probe was used to investigate variability in active layer thickness across the study area and for detecting shallow bedrock. An increment (tree) borer was used to extract a thin (~5 mm) core from trees or shrubs growing on or against slope hazard deposits, where basic dendrochronology could help provide insight into the timing and frequency of events.

3.3 Terrain and Terrain Stability Mapping

PECG completed terrain and terrain stability mapping within the 64 km^2 study area in accordance with YESAB's Geohazards Guide (Guthrie and Cuervo, 2015). Terrain mapping is the process of dividing the landscape according to surficial materials, textures, surface expressions and geomorphological processes. Terrain stability mapping involves further consideration of drainage, slope and, in this case, permafrost characteristics, resulting in a terrain stability classification for each polygon. Classes I, II and III are considered stable, Class VI is considered potentially unstable, and Class V is considered unstable.

3.3.1 Mapping Protocols and Attributes

PECG completed all mapping based on field-calibrated interpretations of high-resolution digital aerial photography and LiDAR-derived elevation data, using softcopy photo-interpretation workstations with either

DAT/EM Summit Lite or PurVIEW software packages. Polygon delineation was completed at a scale of 1:10,000 within the 37 km^2 area encompassing the proposed mine site and at a scale of 1:20,000 within the 27 km^2 access corridor, which aligns with YESAB's expectations for "large scale" geohazards assessment associated with the environmental assessment process (Guthrie and Cuervo, 2015). The previous terrain analysis map prepared for the mine area of the KZK Project by KP (2016a) was reviewed, and relevant data were incorporated and refined as necessary for terrain stability mapping purposes.

Terrain stability polygons were delineated primarily based on the YGS' adaptation of the Terrain Classification System for British Columbia (Howes and Kenk, 1997) and the Mapping and Assessing Terrain Stability Guidebook (BC Ministry of Forests, 1999). A User's Guide to Terrain Stability Mapping in British Columbia (J.M. Ryder and Associates, Terrain Analysis Inc., 2002) and A Guide for Management of Landslide-Prone Terrain in the Pacific Northwest (BC Ministry of Forests, 1994) were also consulted. Certain refinements were made based on unique conditions encountered in the study area and to better meet project-specific objectives (e.g., the geomorphological process of 'debris flood' was attributed as '-Rt'). Explicit consideration was also given to the distribution and the relative depth and ice contents of permafrost, given its pronounced influence on ground stability.

Terrain stability polygons were delineated with consideration for seven main attributes, each of which is defined below, in addition to the terrain stability classes described in Section 3.3.2. Complete explanations and descriptions of attribute values are available on the terrain map and its cover page of code definitions (Map 1, **Appendix A**).

- **Surficial Material** – e.g., morainal (till) deposits (M), colluvial deposits (C), fluvial deposits (F)

  This attribute defines the surficial material present and its depositional (genetic) origin. The surficial material represents the core element of a particular terrain unit and label.

- **Surface Expression** – e.g., veneer (v), blanket (b), terrace (t)

  This attribute refers to the form, or pattern of forms, expressed by the surficial material. Up to three surface expressions describe a particular surficial material, in order of decreasing relevance.

- **Texture** – e.g., silt (z), sand (s), mixed angular fragments (x), gravel (g)

  This attribute refers to the size, sorting and shape of the particles comprising the surficial material. Standardized textures were assigned to all polygons, including those not investigated in the field, based on typical conditions observed at field sites and documented in previous investigations in the region (e.g., Bond and Plouffe, 2002). Such an approach is consistent with textural characterization in YGS' surficial geology mapping (Lipovsky and Bond (compilers), 2014) and aids standardization of terrain units. Up to three textures describe a particular surficial material, in order of increasing proportion[5].

[5] *This convention is used in place of YGS' opposite convention – in order of decreasing proportion – due to its consistency with verbal description (e.g., sgF is a sandy gravel fluvial deposit dominated by gravel).*

- **Geomorphological Process** – e.g., gully erosion (-V), thaw flow slide (-Xf)

  This attribute refers to geomorphological processes that are either occurring, or have occurred, within a polygon. Up to three geomorphological processes and respective subclasses can be identified, in order of decreasing relevance to the polygon.

- **Drainage Class** – e.g., well drained (w), imperfectly drained (i), poorly drained (p)

  This attribute refers to the speed and extent to which water is removed from the soil in relation to additions. It considers both the rate at which water is able to be removed from an area as a result of landscape characteristics (e.g., slope), and the permeability of the surficial materials themselves. In this study area, drainage class is strongly influenced by the depth to permafrost, where present. Drainage class is represented by a single value, or a range between two values with the dominant class listed first.

- **Relative Ice Content of Permafrost in Surficial Material** – e.g., ice-rich (r), ice-moderate (m), ice-poor (p), no permafrost (n)

  This attribute refers to the relative volumetric ice content of permafrost, interpreted based on field observations of ground ice in different hydrogeomorphic settings, and on applicable results from test pitting, geotechnical drilling and thermistor installations (Golder, 1996; KP, 2016a,c,d, 2017). Implicit is an initial interpretation of whether permafrost is present within surficial material, only present at depth (i.e., below at least a few metres) within overburden or underlying bedrock and relatively insensitive to road/facility construction or climate change over the mine life (*no permafrost*), or altogether absent (*no permafrost*). Permafrost classifications were defined conservatively at the polygon scale, based on site-specific indicators, but do not necessarily indicative the presence of continuous permafrost within the polygon. In polygons that exhibit stratigraphic relationships, the classification considered the relative ice content of permafrost within the underlying material if within a few metres of ground surface and potentially sensitive to project-related or climatic disturbance. This attribute is not based on precise thresholds of ice content, but instead distinguishes areas relatively and according to forms of ground ice. *Ice-poor* permafrost is inferred to contain little to no visible (pore) ice; *ice-moderate* permafrost is inferred to contain thin seams and/or small, isolated lenses of segregated ice; and *ice-rich* permafrost is inferred to contain large accumulations of segregated ice in the form of interconnected seams, lenses and/or massive bodies. The terms ice-poor, ice-moderate and ice-rich are used throughout the report and on Map 1 (**Appendix A**).

- **Slope Class** – e.g., 2 (gentle, 6-26%), 4 (moderately steep, 50-70%)

  This attribute refers to the dominant range in slope steepness based on the slope-defined surface expressions in Howes and Kenk (1997). Slope class was visually assigned based on a five-level raster model of slope class generated from the LiDAR-derived elevation data that were smoothed using a roaming box-average of 5 m.

Additional point and linear features too small to be mapped as polygons were identified using on-site symbols. Examples include thermokarst ponds (point) and slope failures (line). Whether or not processes represented by on-site symbols were also included in the polygon's terrain label depended on the proportional area of the polygon that is affected by the process. For example, a single gully did not necessarily require inclusion of the gullying process in the polygon label.

3.3.2 Terrain Stability Classification

Terrain stability mapping in British Columbia typically involves the assignment of a single terrain stability class to each polygon, in order to provide a relative ranking of the likelihood of a landslide occurring after timber harvesting or road construction (BC Ministry of Forests, 1999). This protocol yields a map depicting terrain stability classes after a disturbance – for example, following road construction – but does not readily distinguish the stability of polygons in the absence of disturbance. The hazards posed by a slope above (or below) a facility/road and unaffected by facility/road construction (i.e., potential effects of the environment on the Project), for example, could be inaccurately represented on this type of conventional terrain stability map. It is particularly important to differentiate terrain stability classes for both the existing baseline and disturbed conditions in this landscape of discontinuous permafrost, some of which is ice-rich and prone to thermokarst activity. As such, both *existing* and *disturbed* terrain stability classes were assigned to each polygon to enable accurate evaluation of risks posed locally and by hazards upslope or downslope of the proposed infrastructure.

In addition to considering the potential influence of project-related construction on terrain stability, Coregeo and Associates also considered the potential effects of climate change on stability conditions, recognizing that a variable landscape response is expected. Climate change is already driving observed degradation of permafrost throughout Yukon, and it is expected to continue. Benkert et al. (2015) demonstrate that even a modest 1-2 ^{o}C increase in mean annual air temperature in Ross River is likely to thicken the active layer to a point where the probability of encountering permafrost in a given area is reduced by 20%. Localized and widespread degradation of permafrost is expected primarily as a result of climatic warming, but also through changes in precipitation patterns and the frequency of lightning strikes, which can initiate wildfires that alter ground thermal regimes. Although the proposed mine has an expected operational life of approximately ten years (plus construction and closure phases), Coregeo and Associates has conservatively assumed that some of the projected implications of climate change will advance sufficiently to influence terrain stability and hazards. The persistence of certain infrastructure components of the project into perpetuity, such as reclaimed waste rock piles, also necessitates a longer-term perspective on the implications of climate change. While the influence of climate change on permafrost terrain is the most obvious linkage, consideration was also given to the more conventional influence of increased precipitation on slope stability in permafrost-free areas when classifying disturbed stability conditions.

The *'existing terrain stability'* class represents current conditions (summer 2017), in the absence of any major project-related activity or projected climate change effects. The *'disturbed terrain stability'* class represents conditions following disturbance to ground conditions from road/facility construction without mitigation and/or in response to projected climate change effects (**Table 3-1**). The context for the polygon-specific disturbed stability class is specified as project-related construction, climate change or both. Whether or not an increase in the stability class is warranted between the existing and disturbed scenarios depends on the interpreted magnitude of the potential effect of the disturbance. Conservatively, the disturbed stability class assumes typical cut-and-fill road construction without any measures to mitigate potential instability on steep slopes or from disturbance to permafrost with excess ice. Stripping or compaction of organics, and only regular surface water management, would be typical disturbances. Full details for both the existing and disturbed terrain stability classes are provided on the mapping of terrain stability and hazards and the cover page of code definitions (Map 2 (**Appendix B**) and Map 3 (**Appendix C**)). Acknowledgment of the ways in which BMC plans to address hazards typical of disturbed terrain

stability classes of III and IV is provided in Section 6. This section also specifies the measures planned to mitigate risks identified for specific mine infrastructure footprints and sections of the existing/proposed access road.

Further modifications to the conventional terrain stability classes used in British Columbia were necessary to accommodate the potential for instability related to thermokarst processes. If overlooked in the siting and design of project infrastructure, thermokarst could significantly increase infrastructure maintenance costs and potentially affect worker safety through its influence on ground stability (McGregor et al., 2010; Guthrie and Cuervo, 2015). Therefore, the assignment of terrain stability classes additionally considers the inferred presence or absence of ice-moderate or ice-rich permafrost (as shown on the cover page of the mapping of terrain stability and hazards (Map 2 (**Appendix B**) and Map 3 (**Appendix C**)). Each disturbed terrain stability class is qualified according to its main category of hazard process consideration: slope, thermokarst or both.

The disturbed terrain stability class was also qualified according to the influential type of disturbance: project-related construction, climate change, or both. This distinction enables users to determine where the Project has the potential to affect terrain stability, which in turn could affect the nearby environment.

Table 3-1. Terrain stability classification system developed for the KZK Project

Symbol	Class	Condition	Interpretation		Common terrain characteristics*	
			Existing (current conditions)	**Disturbed** (following disturbance to ground conditions from climate change and/or road/facility construction without mitigation)	**Existing** (current conditions)	**Disturbed** (following disturbance to ground conditions from climate change and/or road/facility construction without mitigation)
I	stable	permafrost	No significant stability problems.		Planar to gently sloping till veneer with ice-poor permafrost.	Planar to gently sloping till veneer with ice-poor permafrost.
		no permafrost			Planar to gently sloping bedrock, till and active fluvial units; glaciofluvial terraces.	
II	generally stable	permafrost	Very low likelihood of slope instability.	Very low likelihood of slope instability; no thermokarst subsidence or thermal erosion expected.	Gently sloping till and fluvial units; moderately steep bedrock; glaciofluvial mantles over ice-rich till.	Gently sloping till or colluvium with ice-poor permafrost.
		no permafrost	Very low likelihood of slope instability.		Gently to moderately sloping till, colluvial, fluvial and glaciofluvial units; moderately steep bedrock.	
III	generally stable with minor potential for instability	permafrost	Low to moderate likelihood of slope instability.	Low to moderate likelihood of slope instability and/or minor thermokarst subsidence or thermal erosion possible.	Moderately to moderately steep sloping till and colluvial blankets; gently sloping till and colluvial units exhibiting significant solifluction.	Gentle to moderately sloping till and colluvial units with ice-moderate permafrost; ice-rich till units overlain by glaciofluvial material.
		no permafrost	Low to moderate likelihood of slope instability.		Moderate to moderately steep till, colluvial and glaciofluvial units.	
IV	potentially unstable	permafrost	Expected to contain areas with a high likelihood of slope instability.	Expected to contain areas with a high likelihood of slope instability and/or moderate thermokarst subsidence or thermal erosion.	Moderately steep till and colluvial units with ice-rich permafrost.	Gentle to moderately sloping till and colluvial units with ice-rich permafrost; moderately steep to steeply sloping till and colluvial units.
		no permafrost	Expected to contain areas with a high likelihood of slope instability.		Till and colluvial units on moderately steep to steep slopes.	
V	unstable	permafrost	Expected to contain areas with a very high likelihood of slope instability and/or thermokarst activity; may or may not exhibit evidence of previous slope failure and/or thermokarst activity.	Expected to contain areas with a very high likelihood of slope instability and/or major thermokarst subsidence or thermal erosion; typically exhibits evidence of previous slope failure and/or thermokarst activity.	Any unit with evidence of slope failure and/or thermokarst subsidence or thermal erosion.	Any unit with evidence of slope failure; moderately steep and steep till scarps with ice-rich permafrost.
		no permafrost	Expected to contain areas with a very high likelihood of slope instability; typically exhibits evidence of previous slope failure.		Any unit with evidence of slope failure; typically occur on moderately steep to steep slopes.	

** Common characteristics are broad generalizations and may differ from individual polygons where site-specific attributes were considered.*

3.4 Hazard Identification

The type and distribution of mass movement (slope failure) and thermokarst hazards within the study area were identified using geomorphological process codes (polygon label), on-site symbols (point or linear features) and terrain characteristics (Map 2 (**Appendix B**) and Map 3 (**Appendix C**); see Section 4.2 for hazard process descriptions). Mass movements involve the downslope transport of material, such as soil and/or rock, under the influence of gravity. Mass movements may or may not be associated with water, snow or ice[6]. Landslide terminology used in this report follows the standards defined by Hungr et al. (2014), a recent update to the classic classifications established by Varnes (1978) and Cruden and Varnes (1996), which describe the process as well as the type of material involved in the mass movement. Where two modes of failure contribute to movement, terminology was assigned based on the apparent dominant mode.

Where more accurate representation of the role of permafrost was required, refinements to standardized landslide terminology were made based on the multi-language glossary of permafrost and related ground-ice terms (van Everdingen, 2005), which is consistent with the approach applied in the regional characterization of landslides along Yukon's Alaska Highway corridor (Huscroft et al., 2004). For example, permafrost environments also uniquely include active-layer detachments, thermokarst subsidence, thermokarst gullying/erosion and solifluction, each of which is described below (Section 4.2). Slopewash (sheetwash) is also described, as it is widespread in permafrost terrain along the access road corridor, although it does not in itself constitute a hazard.

Each polygon was broadly categorized according to its dominant hazard potential in order to clearly depict the nature of the hazard governing the terrain stability class of each polygon. One of three hazard categories was used: 1) slope failure potential is dominant; 2) thermokarst potential is dominant; and 3) slope failure and thermokarst potential are co-dominant. A hatch pattern was overlaid to indicate the 'applicable hazard category' in mapping of terrain stability and hazards (Map 2 (**Appendix B**) and Map 3 (**Appendix C**)). This designation does not indicate whether or not the polygon exhibits any evidence of such hazards; the geomorphological process codes or on-site symbols serve that purpose. The 'slope failure potential is dominant' category is the default, thus all units that do not pose a thermokarst hazard (e.g., gentle, ice-poor colluvium and even flat, permafrost-free fluvial plains) are represented by this category. A terrain unit generally must exhibit ice-rich permafrost to be considered for the 'thermokarst potential is dominant' category. Polygons with ice-rich permafrost and slope classes of 3 or higher are candidates for the 'slope failure and thermokarst potential are co-dominant' category. Thermokarst potential was generally considered within the upper surficial material; in map units exhibiting stratigraphy, however, subsurface materials were also considered where the overlying material was interpreted as sufficiently thin that project-related construction and/or climate change could affect underlying permafrost (e.g., glaciofluvial veneer overlying ice-rich till).

A generalized characterization was made of the nature of the hazard posed by different geomorphological processes – in terms of likelihood, magnitude and project considerations – based on review of historical aerial photography in conjunction with field observations and professional experience in the region.

[6] *Snow avalanches were not included in this description of mass movement processes because there is no mappable evidence (e.g., vegetation patterns) of their occurrence within the study area; small loose snow or slab avalanches may occur on moderate to steep slopes in wind-loaded alpine areas.*

3.5 Risk Evaluation

All mapped, credible hazards to the Project, whether related to slope, thermokarst processes, or both, were identified for subsequent risk evaluation. The results provide a basis for site-to-site comparisons, with respect to potential implications, and for considering and prioritizing mitigation requirements. The proposed footprints of each main component of mine infrastructure were overlaid on the terrain stability and hazard maps (Map 2 (**Appendix B**) and Map 3 (**Appendix C**)), such that processes capable of impacting the infrastructure and mine facilities could be identified and evaluated. Segments of the existing/proposed access road at risk from one or more geomorphological processes were identified and evaluated. Equal consideration was given to mapped hazards defined by polygons, lines and points. In order to appropriately focus attention and potential follow-up efforts, only those polygons with disturbed terrain stability classifications of IV or V were considered to pose credible risks worthy of site-specific evaluation.

Coregeo and Associates developed a qualitative 'risk matrix' that facilitates combined evaluation of the likelihood and potential consequence of occurrence (**Figure 3-1**). The relative thresholds of 'likelihood' and 'consequence' have been established with practical implications in mind, enabling BMC to more effectively prioritize sites for follow-up investigation and mitigation. The likelihood classes consider expected, approximate timeframes within which a particular mass movement may occur (or recur), with respect to the expected lifespan of the mine. The consequence classes consider general maintenance and reconstruction implications for proposed mine infrastructure and the access road. The risk evaluation completed for each site incorporated insight from both the desktop interpretations and the field reconnaissance investigations. A "negligible" likelihood or consequence was assumed to yield a "negligible" risk in all cases.

The full results of the risk evaluations were tabulated (Section 6), with separate evaluations for each distinct type of geomorphological process that may pose a risk to the Project. Spatial or locational information was communicated, where needed, by referencing unique polygon identification numbers (e.g., Poly_ID 123). The outline of the facility footprint or the pertinent segment of the access road was colour-symbolized according to the unmitigated risk, or the highest (most conservative) of multiple unmitigated risks. A determination was made of the residual risk to the Project that can be achieved for each mapped, credible hazard through the assumed implementation of appropriate mitigation measures, which would reduce the likelihood and/or consequence of the hazard.

Table 3.2. Risk evaluation matrix for credible slope and/or thermokarst hazards

RISK EVALUATION MATRIX			CONSEQUENCE			
			Negligible	Low Minor road or facility ditch/edge maintenance, necessitating <1 day closure	Moderate Road or facility maintenance due to coverage/settlement, necessitating ≥1 day closure	High Road or facility damage/collapse, necessitating local reconstruction
LIKELIHOOD	High	Occurrence in <2 years (construction phase)	Negligible	Moderate	High	Very High
	Moderate	Occurrence in 2-15 years (operations & closure)	Negligible	Low	Moderate	High
	Low	Occurrence in >15 years (post-closure)	Negligible	Very Low	Low	Moderate
	Negligible		Negligible	Negligible	Negligible	Negligible

*Note: Risks to proposed mine infrastructure and the access road are symbolized using a purple colour spectrum on Map 3 (**Appendix C**) in order to visibly contrast with the underlying green-to-red terrain stability classifications.*

4. Terrain Description

The main terrain units within the study area are described in the following sections, with text overviews accompanied by a table that summarizes key characteristics and presents typical aerial and ground perspectives (Section 4.1). The areal proportion of the study area occupied by each of the dominant surficial materials is presented in **Figure 4-1**. Active geomorphological processes within the study area that represent potential hazards are described in Section 4.2.

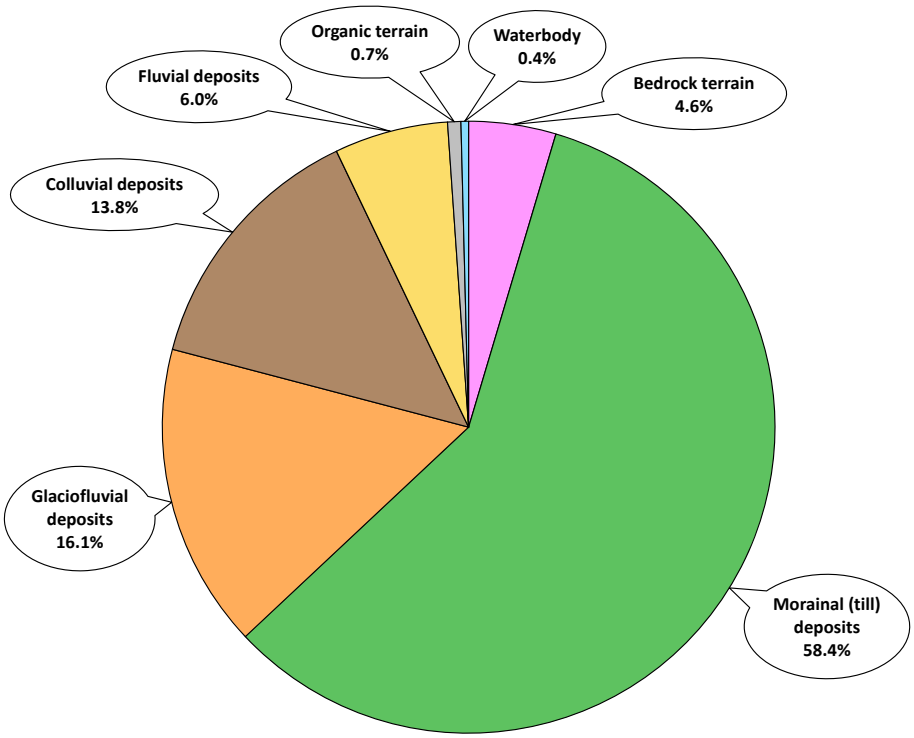


Figure 4-1. Areal proportion (%) of dominant surficial materials within the study area

4.1 Terrain Units

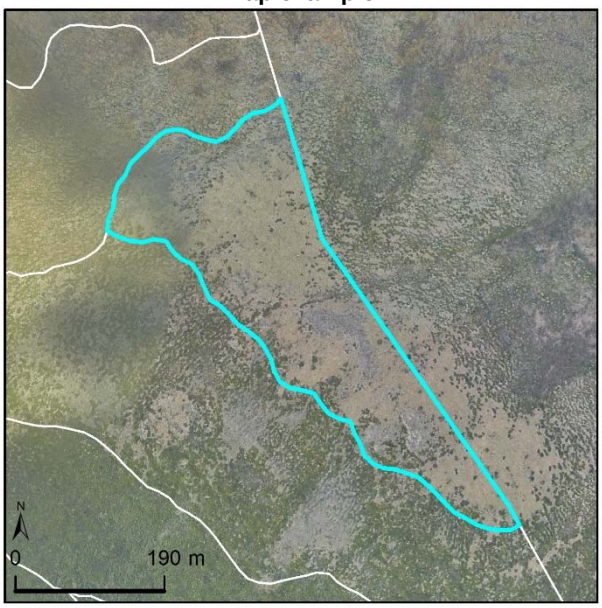
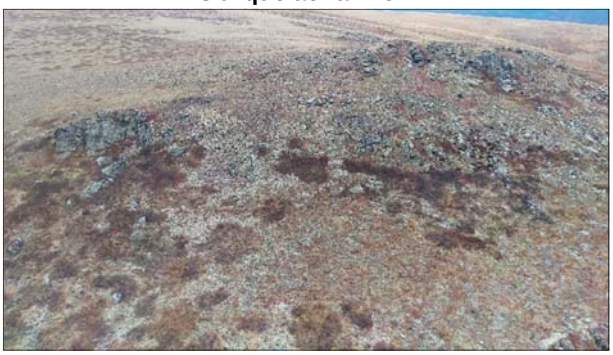
4.1.1 Bedrock Terrain

Bedrock (R) exposure within the study area is limited to isolated outcrops (Rh) along ridges and spurs, mid-slope bluffs (Rs) and stream-cut banks (Rs), overall representing only about 5% of the study area (**Figure 4-1, Table 4-1**). Relatively weak schists that underlie most of the mine area and the southern portion of the access corridor are contrasted by competent limestone that forms prominent outcrops and bluffs along the northern portion of the corridor. The schists, in particular, are weathered in their upper few metres, such that backhoes can generally excavate road cuts by ripping. Bedrock outcrops are commonly ringed by angular fragments that have become detached through frost-shattering and thermal cracking.

Bedrock terrain units may or may not contain permafrost. Where present, it is at depth within weathered or competent bedrock and likely has little potential to contain volumes of ground ice of significance to proposed surface or near-surface development activities[7]. Geomorphological processes within bedrock terrain units are mainly limited to isolated rockfall and nivation.

[7] *Follow-up investigations may be required to assess permafrost conditions within bedrock that will ultimately form the walls of the open pit, in case there is ground ice with potential implications for stability.*

Table 4-1. Typical characteristics of bedrock in the study area[8]

<table>
<tr><td colspan="2">Map example
 
</td><td colspan="2">Oblique aerial view
  </td></tr>
<tr><td colspan="2" rowspan="8">Soil pit
 </td><td>General distribution</td><td>Summits; ridges and spurs; stream-cut banks</td></tr>
<tr><td>Common terrain units</td><td>Ru/zsdMv, Rs/zsxCv</td></tr>
<tr><td>Dominant processes</td><td>In-situ weathering; rockfall; nivation</td></tr>
<tr><td>Drainage range</td><td>Well to rapid</td></tr>
<tr><td>Dominant slope range</td><td>Gentle to steep</td></tr>
<tr><td>Permafrost</td><td>Absent or at depth within bedrock; ice-poor</td></tr>
<tr><td>Other characteristics</td><td>Weathered schists are easily rippable with an excavator</td></tr>
<tr><td>Hazard considerations</td><td>Localized rockfall; effects of weathering on stability</td></tr>
</table>

[8] *Terrain labels and slope classes used in this and all other summary tables in Section 4.1 defined in Howes and Kenk (1997); drainage classes defined in BC Ministry of Forests and Range and BC Ministry of Environment (2010).*

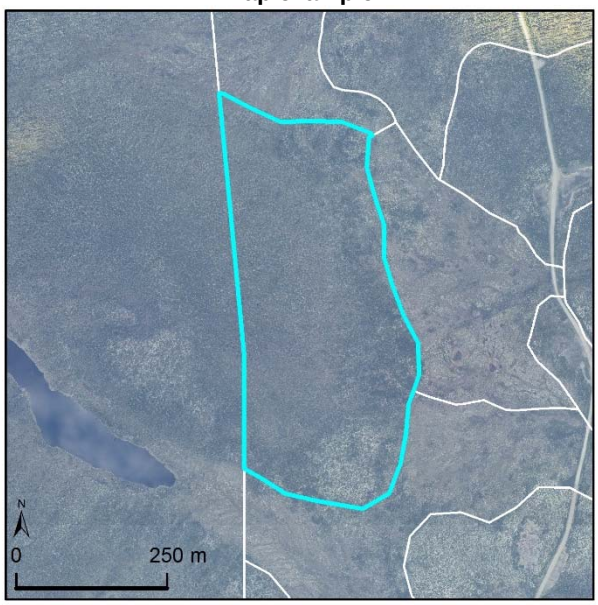
4.1.2 Morainal (Till) Deposits

Morainal deposits (M) are accumulations of till, a diamicton deposited directly from glacial ice. Approximately 58% of the study area exhibits till as the dominant surficial material, although this proportion under-represents its actual extent due to the commonness of its burial beneath a mantle of glaciofluvial or colluvial material (**Figure 4-1, Table 4-2**). Most of the till within the study area appears to have been deposited beneath the ice sheet (i.e., subglacial till), although ablation till was likely also deposited in areas of stagnant and down-wasting ice, commonly in association with areas of ice-contact glaciofluvial deposits. Till thicknesses varies greatly. Till veneers (<1 m, Mv) are common around the proposed mine area, especially on rounded ridges and gentle upper slopes. Till thickness generally increases northward, such that blankets (>1 m, Mb) are more common along the road corridor. Most blankets are probably in the order of a few metres thick, based on road cuts, but areas of blankets in excess of 10 m are indicated by exposures in stream-cut banks along the northern portion of the access corridor.

The till within the study area generally has a silty fine sand to fine sandy silt matrix and a low (10-15%) clast content. In some areas, the till has sufficient clay content to be manually rolled to 3 mm without cracking (~plastic limit). Clasts range from granule to boulder in size, and are generally subangular to subrounded. Field observations suggest that the thinner tills around the proposed mine area may be slightly sandier than the thicker tills along the access road corridor.

Permafrost appears ubiquitous in thick (>3 m) till blankets, based on observation of widespread slopewash runnels along portions of the road corridor. Ground ice is inferred to be common and significant in thick tills, based on the extent of thermokarst gullying and first-hand observation of localized seams to interconnected lenses of segregated ice. Permafrost is not typically encountered in comparatively thin till veneers, which are commonly sandier and better drained. Geomorphological processes common to till deposits include slopewash, solifluction, gullying (regular and thermokarst) and active-layer detachments.

Table 4-2. Typical characteristics of morainal (till) deposits in the study area

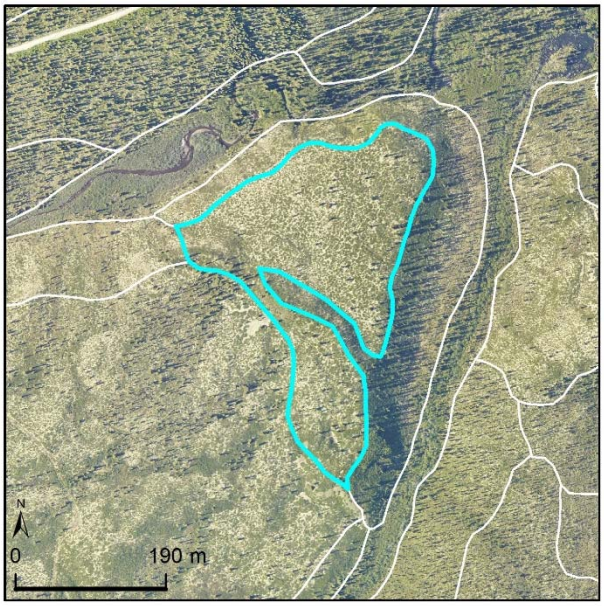
<table>
<tr><td colspan="2">Map example
 
</td><td colspan="2">Oblique aerial view
 </td></tr>
<tr><td colspan="2" rowspan="8">Soil pit
 </td><td>General distribution</td><td>Broad valleys, rounded summits</td></tr>
<tr><td>Common terrain units</td><td>zsdMv, zsdMb-S, zsdMb-Xs</td></tr>
<tr><td>Dominant processes</td><td>Slopewash, solifluction, gullying (regular and thermokarst), retrogressive thaw slumps</td></tr>
<tr><td>Drainage range</td><td>Poorly to moderately well</td></tr>
<tr><td>Dominant slope range</td><td>Gentle to moderate</td></tr>
<tr><td>Permafrost</td><td>Extensive and locally ice-rich, especially in thicker blankets</td></tr>
<tr><td>Other characteristics</td><td>Commonly veneered or blanketed by glaciofluvial or colluvial deposits</td></tr>
<tr><td>Hazard considerations</td><td>At-depth thawing of ice-rich permafrost affects surface</td></tr>
</table>

4.1.3 Glaciofluvial Deposits

Glaciofluvial deposits (FG) are the result of sedimentation in flowing glacial meltwater. Glaciofluvial deposits occupy approximately 16% of the study area and are concentrated in a number of locations, locally representing the dominant surficial material (**Figure 4-1, Table 4-3**). Glaciofluvial landforms originate in two distinct settings: ice-contact and proglacial. Both occur within the study area. Large complexes of ice-contact glaciofluvial deposits, forming kame-and-kettle topography, occupy lowland settings at several locations within the study area. Relief of these ice-contact deposits is typically less than a few tens of metres. Eskers (FGr) and hummocky kames (FGh) likely formed in relatively high-energy environments, given their sandy gravel composition. Deposits are clast-supported and dominated by rounded stones. Many of the kames, especially smaller and lower-relief ones, are best described as 'dirty' sand and gravel; they are more poorly sorted, commonly contain a notable silt fraction, and exhibit more subrounded clasts. Outwash deposits (FGt) were deposited in comparatively low-energy environments, based on their better-sorted, gravelly sand composition. Along the northern portion of the access corridor, a veneer to blanket of outwash sediments commonly covers underlying till. Isolated glaciofluvial deposits occur throughout the study area, including within the proposed mine area.

Permafrost is uncommon in glaciofluvial landforms, due to their well-drained, granular composition. Important exceptions occur where glaciofluvial deposits occupy depressions or are relatively thin (e.g., veneer) and overlie a lower-permeability material such as a thick blanket of till. Identification of thermokarst subsidence in areas of glaciofluvial material necessitate consideration be given to underlying materials in cases of only thin surficial coverage. Ice contents are expected to be low in well-drained glaciofluvial deposits. Active, mappable geomorphological processes are uncommon in glaciofluvial landforms, but localized gullying or ravelling may be present.

Table 4-3. Typical characteristics of glaciofluvial deposits in the study area

<table>
<tr><td colspan="2">Map example
 
</td><td colspan="2">Oblique aerial view
 </td></tr>
<tr><td colspan="2" rowspan="8">Soil pit
 </td><td>General distribution</td><td>Valley bottoms, benches</td></tr>
<tr><td>Common terrain units</td><td>sgFGr, gsFGt, gsFGv</td></tr>
<tr><td>Dominant processes</td><td>Localized gullying</td></tr>
<tr><td>Drainage range</td><td>Well to rapid</td></tr>
<tr><td>Dominant slope range</td><td>Level to moderately steep</td></tr>
<tr><td>Permafrost</td><td>Uncommon and ice-poor, where present</td></tr>
<tr><td>Other characteristics</td><td>Well-drained scarps prone to ravelling if undercut by creek erosion or exposed in steep road cuts</td></tr>
<tr><td>Hazard considerations</td><td>Instabilities in underlying material may affect surface</td></tr>
</table>

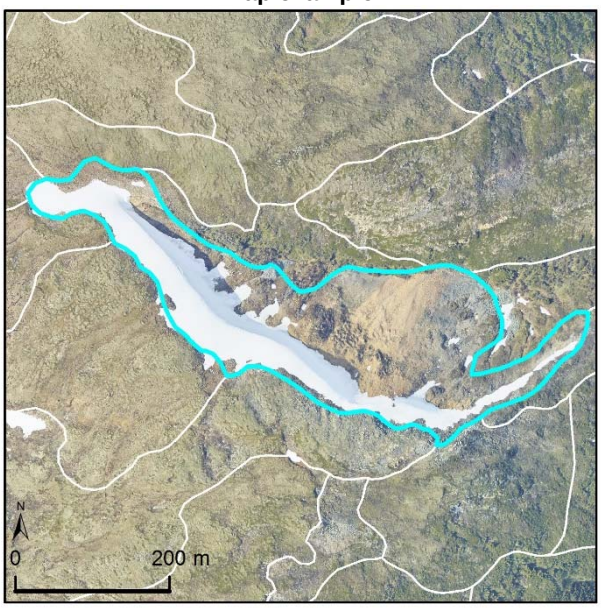
4.1.4 Colluvial Deposits

Colluvium (C) is material that has been transported and subsequently deposited by gravity. Minor colluviation (e.g., soil creep) is widespread throughout the study area on gentle to moderate slopes. Colluvial materials are most pronounced and mappable within approximately 14% of the study area (**Figure 4-1, Table 4-4**). Colluvial veneers (<1 m, Cv) are widespread on moderately steep to steep slopes, exhibiting evidence of downslope movement of materials. In some areas, veneers of colluvium overlie another material such as till instead of bedrock. In these cases, a stratigraphic relation is expressed in the terrain unit label (e.g. Cv\Mb). Colluvial veneers are mainly encountered on mountainsides within the proposed mine area. Colluvial blankets (>1 m, Cb) and aprons (Ca) are more common on lower slopes and at prominent concave slope-breaks, respectively. Thicker colluvial deposits generally contain more silt and are less well drained. The eastern valley side near the proposed open pit exhibits a conspicuous colluvial apron at its base.

Colluvial materials derive their properties largely from the materials from which they originate. Therefore, colluvium derived primarily from weathered bedrock in the study area tends to be angular, clast-supported granules to large blocks, with a matrix of silty sand. Bedrock-derived colluvium is generally well-drained and permafrost-free. Colluvium derived primarily from the downslope movement of till tends to exhibit subrounded to angular clasts supported within a silty sand matrix, much like its parent material but with a looser, less compact structure. Where sufficiently thick and silty, colluvial deposits contain permafrost. Colluvium commonly exhibits crude stratification parallel to the slope, including buried organic horizons, indicating the incremental movement and layering of materials downslope.

Colluviation occurs through a variety of processes within the study area, including both slow and rapid mass movements. Areas of soil creep (ubiquitous and unmapped), rockfall, and debris slides and flows (including active-layer detachments and retrogressive thaw slumps) have been observed. Solifluction is also a conspicuous form of downslope movement of material on mountainsides, although terrain units exhibiting mappable solifluction generally retain their original material classification (e.g., till) unless lobes are pronounced and thick or particularly elongated downslope (in which case they are generally mapped as colluvial materials). Periglacial processes influence and accelerate colluviation through mechanisms such as nivation and slopewash.

Table 4-4. Typical characteristics of colluvium in the study area

<table>
<tr><td colspan="2">Map example
 
</td><td colspan="2">Oblique aerial view
 </td></tr>
<tr><td colspan="2" rowspan="8">Soil pit
 </td><td>General distribution</td><td>Mountainsides, stream-cut scarps</td></tr>
<tr><td>Common terrain units</td><td>zsxCv, zsdCb, zsdCv\zsdMb-S</td></tr>
<tr><td>Dominant processes</td><td>Soil creep (unmapped), debris slides, debris flows, rockfall</td></tr>
<tr><td>Drainage range</td><td>Imperfect to well</td></tr>
<tr><td>Dominant slope range</td><td>Moderate to steep</td></tr>
<tr><td>Permafrost</td><td>Uncommon and ice-poor, where present</td></tr>
<tr><td>Other characteristics</td><td>May be crudely stratified, influenced by periglacial processes</td></tr>
<tr><td>Hazard considerations</td><td>Recurrence potential, runout limits</td></tr>
</table>

4.1.5 Fluvial Deposits

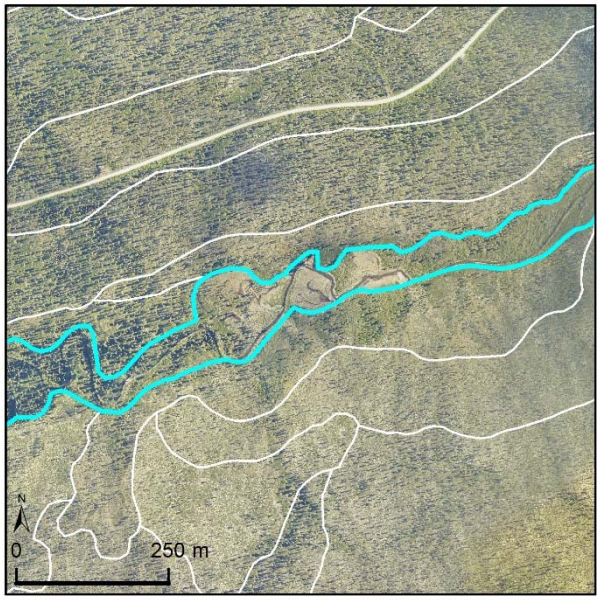
Fluvial deposits (F) have been transported and subsequently deposited by modern (post-glacial) streams. Fluvial deposits invariably occur along modern creeks and localized widenings along their tributary drainages, representing <1% of the study area (**Figure 4-1, Table 4-5**). Most of the Geona and Finlayson Creek valley bottoms are mapped as active fluvial plains (FAp), which exhibit sinuous to irregularly meandering channels within a level floodplain and localized organic cover. Remnants of former channel deposits, now perched above the floodplain, are mapped as terraces (Ft). Several active fluvial fans (FAf) from tributaries project into the floodplains, indicating that material deposition from the tributaries is outpacing the erosional capacity of the main creeks. Some of the tributary drainages and even the slopewash runnels descending the gentle valley sides exhibit evidence of fluvial transport and deposition; as such, they have been mapped as having fluvial veneers (FAv).

The grain size distribution of fluvial deposits is a function of the source material and the channel morphology, namely energy gradient (slope). Most fluvial deposits within the study area are a mixture of subrounded to rounded, pebble- to cobble-sized clasts along the active channel and interbedded silt, sand and organics in adjacent floodplain areas. Fluvial fan deposits tend to be coarser gravels and have a lower silt fraction, mainly due to the comparatively steeper gradient than on plains. Evidence of beaver activity is widespread along the bottoms of both main creeks; many of the small on-line or riparian ponds may actually relate to former beaver activity. Open meadows have established in areas once impounded by beaver dams, and clusters of dead or dying trees are commonly a sign of drowning behind existing or former beaver dams.

Permafrost is generally inferred to be absent within fluvial deposits within the study area based on previous geotechnical investigations (e.g., KP, 2016c,d), a consistently high groundwater table along the valley bottoms (indicated by vegetation communities and slope-toe springs), and an absence of evidence of thermokarst activity. There is sufficient flow within the active channels and through-flow of water within permeable fluvial sands and gravels, even during winter, to inhibit freezing and at least maintain a talik. Exceptions occur in some inactive floodplains and terraces covered with organic material. Geomorphological processes are mainly meander migration, irregularly sinuous channelling and localized (beaver dams) and seasonal (freshet) inundation of floodplain areas.

Table 4-5. Typical characteristics of fluvial deposits in the study area

Map example



Oblique aerial view

Soil pit

General distribution	Valley bottoms, tributary drainages
Common terrain units	zsgFAp-M, zsgFt, zsgFAf
Dominant processes	Meander migration, irregularly sinuous channel, inundation
Drainage range	Imperfect to well
Dominant slope range	Level to gentle
Permafrost	Generally absent or at depth below
Other characteristics	Irregular channel and floodplain morphology may reflect former beaver activity
Hazard considerations	Bank erosion, bed down-cutting, avulsion potential, beaver dam outbursts

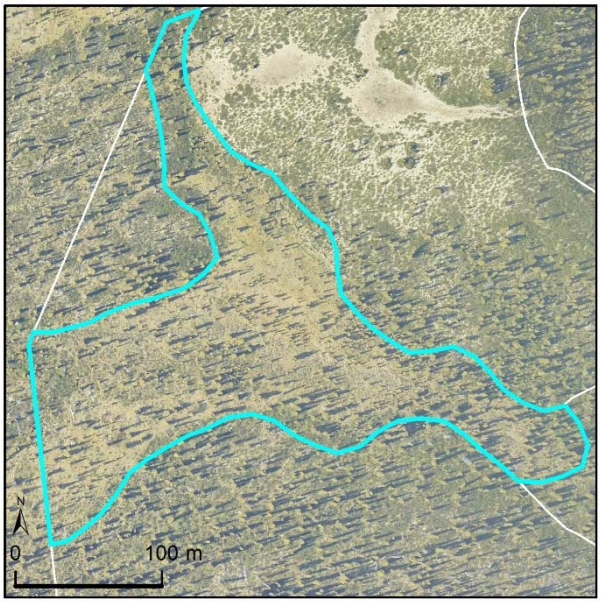
4.1.6 Organic Terrain

Organic terrain (O), composed of peat and muck, occurs wherever organic material has accumulated with thicknesses of at least half a metre. Organic material accumulates in poorly drained areas where water slows the decomposition of plant matter, generally in closed depressions, in riparian zones or on gentle ground with a thin active layer (shallow permafrost). Mappable organic terrain represents <1% of the study area (**Figure 4-1, Table 4-6**). The thickness of organic material is variable, and generally expected to be less than a metre or two. KP (2016a), however, notes one of the test pits near the proposed Lower Water Management Pond penetrating more than 5 m of organics. Organic terrain is mapped as veneers (<1 m, Ov), blankets (>1 m, Ob) or plains (Op), depending on the inferred thickness and relation of the organic surface to underlying topography.

Organic material can be described according to its general degree of decomposition: fibric (poorly decomposed), mesic (moderately decomposed) or humic (well decomposed). All three degrees of decomposition occur within the study area, although fibric to mesic decomposition predominates. Organic soils (>40 cm) were encountered in many areas where there was no seepage or particular wetness at the bottom of hand-dug soil pits, possibly reflecting thickening of the active layer or end-of-summer conditions when the groundwater table is relatively low.

Organic terrain is commonly associated with permafrost, especially in areas rich in peat. Peat has highly insulative properties, and inhibits penetration of warm summer temperatures. Organic terrain may be ice-rich, especially where it overlies thick deposits of till. Few mappable geomorphological processes occur in organic terrain, except thermokarst in some areas.

Table 4-6. Typical characteristics of organic terrain in the study area

<table>
<tr><td colspan="2">Map example
 
</td><td colspan="2">Oblique aerial view
 </td></tr>
<tr><td colspan="2">Soil pit
 </td><td>General distribution</td><td>Closed depressions, riparian zones, lower slopes with shallow permafrost</td></tr>
<tr><td colspan="2" rowspan="7"></td><td>Common terrain units</td><td>euOv, euOb, euOp</td></tr>
<tr><td>Dominant processes</td><td>Seasonal inundation, thermokarst</td></tr>
<tr><td>Drainage range</td><td>Very poor to poor</td></tr>
<tr><td>Dominant slope range</td><td>Level to gentle</td></tr>
<tr><td>Permafrost</td><td>Common, shallow and locally ice-rich</td></tr>
<tr><td>Other characteristics</td><td>Lack of wetness in organic soils may indicate thickening of active layer</td></tr>
<tr><td>Hazard considerations</td><td>Compressible soils, episodic and seasonal inundation, thermokarst potential</td></tr>
</table>

4.2 Active Geomorphological Processes

A variety of geomorphological processes were mapped within the study area, including erosional, fluvial, mass movement, periglacial, deglacial and hydrologic processes (Howes and Kenk, 1997). Subclasses of these primary processes were distinguished where necessary to more accurately represent different potential hazard characteristics and implications. Only active processes that may represent hazards are detailed below. Complete descriptions for these and other mapped, non-hazard processes (e.g., cryoturbation, nivation) are available in Howes and Kenk (1997).

4.2.1 Rockfall (-Rb)

Rockfall is the rapid detachment, fall, rolling and bouncing of rock fragments (Hungr et al., 2014). Rockfall occurrences within the study area are restricted to isolated bedrock bluffs and steep colluvial slopes with bedrock outcrops (**Photo 4-1**). Active rockfall zones are recognized by the presence of an unweathered patch of bedrock bluff upslope and/or a pile of lichen-free rubbly debris at the base of the bluff. Rockfall is typically recurrent and most likely to occur during periods of freeze-thaw (frost shatter) or rapid and prolonged warming (thermal cracking).

Photo 4-1. Recent rockfall (-Rb) from bluff near upslope limit of proposed Class B Storage Facility

4.2.2 Debris Slides (-Rs)

A debris slide is the slow to rapid sliding of a mass of surficial material on a shallow, planar surface parallel with the ground (Hungr et al., 2014). Debris slides are distinguished from the more specific process of active-layer detachment, which occurs only on slopes underlain by permafrost. Debris slides within the study area most commonly occur on the steep walls of gullies and tributary drainages (e.g., Fault Creek) (**Photo 4-2**) and along steep, south-facing scarps alongside Finlayson Creek.

Photo 4-2. Gullied (-V) scarp prone to debris slides (-Rs) scarp along the north (left) side of Fault Creek

4.2.3 Debris Flows (-Rd)

A debris flow is a very rapid to extremely rapid surging flow of saturated debris in a steep channel (Hungr et al., 2014). Evidence of the occurrence of debris flows within the study area is provided by conspicuous levees that form along the edges of the deposits within the runout zones (**Photo 4-3**). Most are small, short-travelled (<100 m runout) and initiate on steep slopes at high elevations within remnant till deposits or highly weathered bedrock. Although not explicitly mappable, evidence of debris flows was also noted in deep thermokarst gullies incised into moderately steep valley walls.

Photo 4-3. Recent debris flow (-Rd) deposit with levees on alpine slopes west of the mine site area

4.2.4 Debris Floods (-Rt)

A debris flood is a very rapid flow of water, heavily charged with debris, in a steep channel (Hungr et al., 2014). Peak discharges are comparable to those of water floods. Sediment transport rates during debris floods far exceed normal bed material movement through rolling and saltation, but still rely on the tractive forces of water. Debris floods can transport large quantities of sediment onto their fans, such has been documented historically on the Fault Creek fan (KP, 2016a and this study) (**Photo 4-4**). Debris floods likely initiate along the narrowly confined lower reaches of Fault Creek, following saturation and mobilization of material that accumulates behind temporary dams on the creek bed caused by debris slides from the gullied sidewalls. Debris floods cause sudden aggradation on fan surfaces, which commonly infills channels and triggers an avulsion with a different distributary trajectory. Unlike a debris flow, a debris flood usually does not develop high impact forces (Hungr et al., 2014).

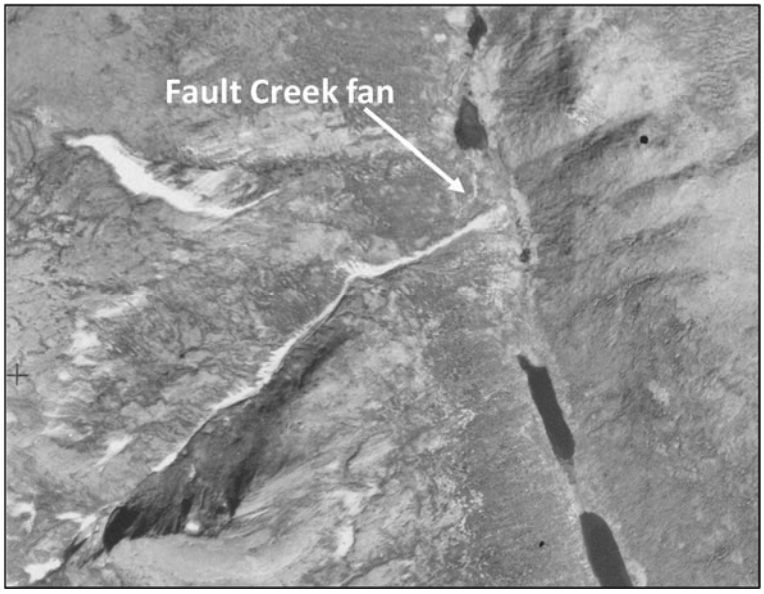


Photo 4-4. Fresh debris flood (-Rt) deposit on Fault Creek fan in 1949 aerial photography

4.2.5 Rock Creep (-Fg)

Rock creep is the slow movement of angular debris under periglacial conditions (Howes and Kenk, 1997). Within the study area, rock creep occurs in subalpine to alpine areas with exposed or thinly covered weathered bedrock, especially on northerly aspects. It is recognized by flow-like patterns on lower talus slopes or by a conspicuously irregular, undulating slope typified by patches of fresh talus amongst intact and weathered bedrock (**Photo 4-5**). Slopes prone to rock creep are likely only slightly sensitive to surface disturbance, due to their skeletal and typically ice-poor composition.

Photo 4-5. Flow-like pattern on lower talus slope indicative of rock creep (-Fg)

4.2.6 Gullying (-V)

Gullying is the modification of unconsolidated (surficial material) and consolidated (bedrock) surfaces by various processes such as surface runoff, mass movement and snow avalanching, resulting in the formation of parallel and sub-parallel long, narrow ravines (Howes and Kenk, 1997). The gullying process has been applied to terrain units (polygons) that exhibit such morphology to an extent that distinguishes them from surrounding, more uniform slopes (e.g., **Photo 4-2**). Gullies occur in all surficial materials and on bedrock slopes, typically elevating the potential for instability. Most gullies are formed through fluvial incision over millennia and, in some cases, may be subject to debris flows. The most conspicuous gullies are delineated on the maps with line symbols.

4.2.7 Solifluction (-S)

Solifluction is the slow (mm/yr to cm/yr, Price, 1991; Matsuoka, 2001; Kinnard, 2003), downslope movement of saturated, non-frozen overburden across a frozen or otherwise impermeable substrate. More accurately, in this study area, gelifluction is the form of solifluction that has generally been mapped due to the movement of material within the active layer on the permafrost table. Solifluction occurs most commonly on convex northerly slopes veneered or blanketed in colluvium in subalpine or alpine environments within the study area. Both solifluction lobes and terraces are present and active within the study area, particularly on northerly aspects (**Photo 4-6**). The solifluction lobes that typify this form of mass movement may comprise silty to fine sandy material rich in organics or clast-rich material bound together by ground ice. Solifluction slopes have generally been mapped as having ice-poor or ice-moderate, shallow permafrost.

Photo 4-6. Solifluction (-S) lobes and terraces on gentle slope above the Class C Storage Facility

4.2.8 Thaw flow slides (-Xf)

An active-layer detachment, referred to more generically for mapping purposes by Howes and Kenk (1997) as a “thaw flow slide”, is a shallow form of debris slide that occurs within the active layer on top of the permafrost table (**Photo 4-7**). Active-layer detachments typically occur in response to intense or prolonged rainfall or snowmelt, high air temperatures, or surface disturbances (e.g., wildfire, windthrow, abnormal drainage concentration, anthropogenic ground disturbance). Active-layer detachments exhibit widespread occurrence throughout the study area, but are restricted to initiation on slopes underlain by permafrost. They initiate on gentle to steep slopes, commonly just above a convex roll much like a snow avalanche. They have runout distances of up to a few hundreds of metres and can transport woody vegetation and underlying colluvial material from ridge shoulders to slope-toe aprons. Following their initial occurrence, permafrost exposed on, or directly beneath, their sliding surface begins to thaw, and the active layer thickens. Continued slides, flows and gullying are common, until active layer thickening ceases. The headscarps of active-layer detachments may migrate retrogressively upslope through gradual thawing and sloughing. The paths of former active-layer detachments are commonly recognized by the anomalous stripe of deciduous trees (e.g., alder, birch) that colonize above the locally depressed permafrost table.

Terrain units (polygons) that exhibit a history of active-layer detachments are assigned this process label (-Xf); discrete failures are also delineated with line symbols. Retrogressive thaw slumps are commonly initiated by small active-layer detachments and have not been separately distinguished due to their small size within the study area.

Photo 4-7. Recent thaw flow slide (active-layer detachment) (-Xf) on mountainside above Finlayson Creek

4.2.9 Thermokarst Subsidence (-Xt)

Thermokarst subsidence is the formation of ground-surface depressions created by the thawing of ice-rich permafrost and associated soil subsidence (Howes and Kenk, 1997). Terrain units (polygons) inferred to have ice-rich permafrost are generally susceptible to thermokarst, although the form and severity of such thermokarst also depends on material properties, depth to permafrost and the form of ground ice. The melting of massive ice bodies produces the most conspicuous thermokarst depressions, which may or may not contain standing water. Thermokarst occurs naturally, such as in response to windthrow or wildfire, but is accelerated through anthropogenic disturbance to surface organic cover and drainage patterns. Thermokarst subsidence is most common in valley bottoms and on benches on gentle valley sides. **Photo 4-8** reveals thermokarst slumping along the shoreline of a pond adjacent to the access road near KM 5.5. Discrete thermokarst subsidence features, whether or not filled with water, are mapped using point symbols.

Photo 4-8. Leaning trees and collapsing bank indicative of thermokarst subsidence (-Xt) along shoreline of pond adjacent to access road near KM 5.5

4.2.10 Thermal Erosion (-Xe)

Thermal erosion is the process of gully formation initiated by heat transfer from water bodies, typically flowing streams, to underlying permafrost. Thermal erosion can also occur due to heat transfer along the shorelines of standing water bodies. Thermokarst gullies are commonly distinguished by anomalously low width-to-depth ratios, indicative of relatively rapid incision into ice-rich permafrost, and tension cracks along the crests of their side walls. Trees growing along the edges of such gullies gradually tilt inward toward the gully; straight trunks that have not had an opportunity to adjust their growth habitat upward are indicative of relatively rapid gully enlargement (**Photo 4-9**). Retrogressive erosion of thermokarst gullies is common and can lengthen gullies that initiate on over-steepened slope toes by orders of magnitude upslope.

Within the study area, thermal erosion is most commonly associated with ice-rich, thick deposits of till with or without a mantle of glaciofluvial material. Natural and anthropogenic alterations in surface runoff patterns, especially where surface runoff becomes concentrated, can trigger thermal erosion. Significant thermal erosion, forming gullies, was mapped using line symbols. **Photo 4-9** shows a remarkable case of thermal erosion along a thermokarst gully that crosses the access road near KM 5.8. Surface runoff concentrated along the gully bottom has formed a cavernous entrance to a 40 m-long tunnel up to a few metres in diameter beneath the ground surface.

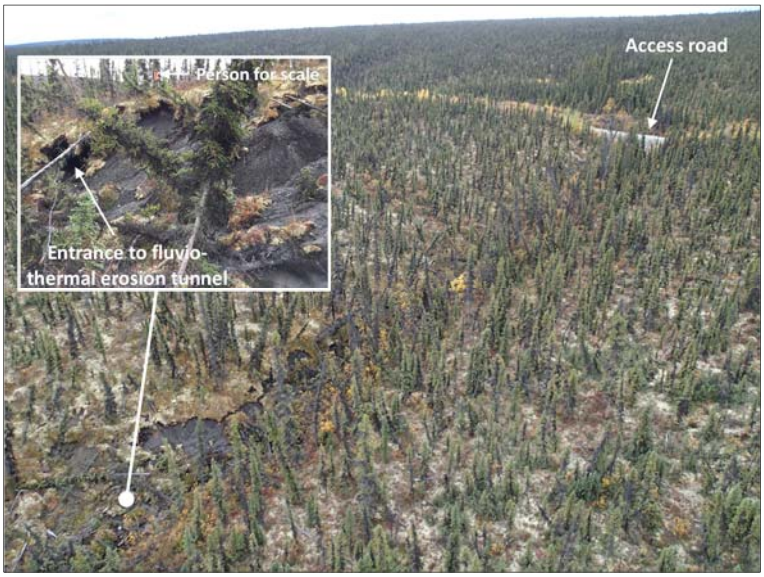


Photo 4-9. Severe thermal erosion and gullying (-Xe) along a stream crossed by the access road at KM 5.8

4.2.11 Slopewash (-Xs)

Slopewash, sometimes referred to as sheetwash, is the mobilization and redistribution of fine material by water flowing down the surface or within the shallow subsurface of smooth slopes that are typically underlain by permafrost. Slopewash exhibits widespread occurrence in permafrost terrain, but is most prevalent on slopes demarcated by downslope, parallel to sub-parallel runnels also known as water tracks (**Photo 4-10**). Such slopes that are distinguishable on the basis of these runnels have been mapped with this process label (-Xs). The runnels are readily distinguished by the growth of dwarf willows, which contrast with surrounding dominance of dwarf birch. The concentration of surface runoff in slopewash runnels leads to local depression of the permafrost table, which in some cases can trigger thermal erosion. Slopewash runnels require consideration in drainage management strategies along roadways, as their thicker active layer allows seepage to continue well into winter, when icing ("glaciation") can develop and block culverts.

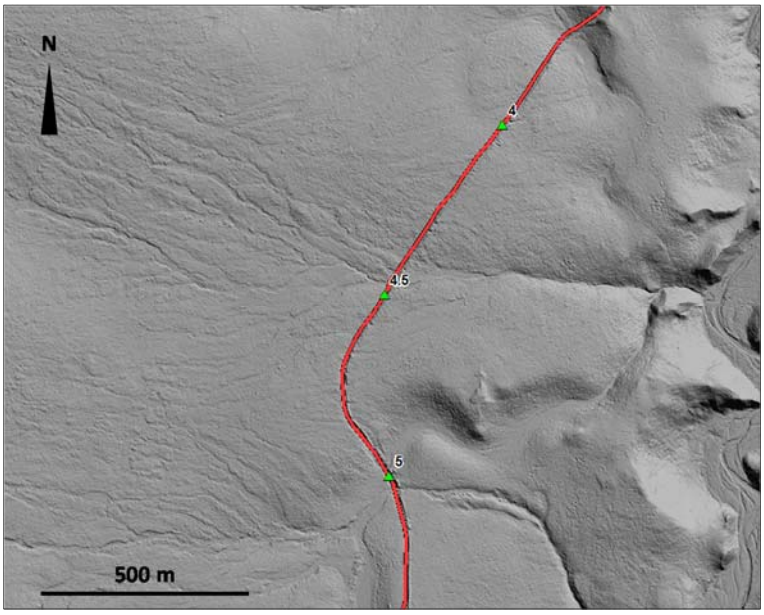


Photo 4-10. LiDAR-derived bare earth hillshade of slopewash (sheetwash) (-Xs) runnels on gentle till slope with permafrost between KM 4 and 5 of the access road

4.2.12 Meander Migration (-M) and Irregularly Sinuous Channels (-I)

Much of the existing access road parallels Finlayson Creek, which exhibits meander migration (-M) and irregularly sinuous channels (-I) along the bottom of its deeply incised valley (**Photo 4-11**). Finlayson Creek is crossed once before the final ascent toward the proposed mine area. Stream channels adjust their planform geometry naturally through bank erosion and meander processes including loop extension, down-valley migration and cut-off (avulsion). Meander migration must be accounted for when sections of road are proposed to cross or encroach alongside sizable creeks, or where mine infrastructure footprints on or immediately adjacent to valley bottoms may be exposed to such a hazard. Anthropogenic disturbances can accelerate bank erosion through perturbations to natural channel patterns.

Photo 4-11. Floodplain of Finlayson Creek exposed to meander migration (-M)

5. Terrain Stability and Hazards

5.1 Terrain Stability

As discussed in Section 3.3.2, each polygon was attributed with an 'existing' or 'disturbed' stability class. The terrain stability mapping (Map 2) in **Appendix B** reveals that the majority (68%) of the study area has an existing terrain stability class of 'generally stable' (Class II) (**Figure 5-1**). This is expected given the gentle slopes that predominate on lower valley sides and in upland areas. Approximately 4% of the study area is considered 'potentially unstable' (Class IV, <1%) or 'unstable' (Class V, 4%), mostly represented by moderately steep, gullied, valley wall scarps and areas of permafrost already exhibiting thermokarst activity.

The disturbed terrain stability class is defined in terms of the worst case scenario of ground disturbances in association with conventional cut-and-fill road construction, without any mitigation measures to address potential instabilities related to permafrost or sidecast on steep slopes. This allows for the establishment of improved baseline references, and better highlights areas that warrant special design consideration. This approach for communicating terrain hazard conditions enables engineers responsible for designing the mine facilities and access road to make more informed and site-specific decisions about appropriate construction techniques. Furthermore, it allows project risk assessments to be specifically tailored to different circumstances.

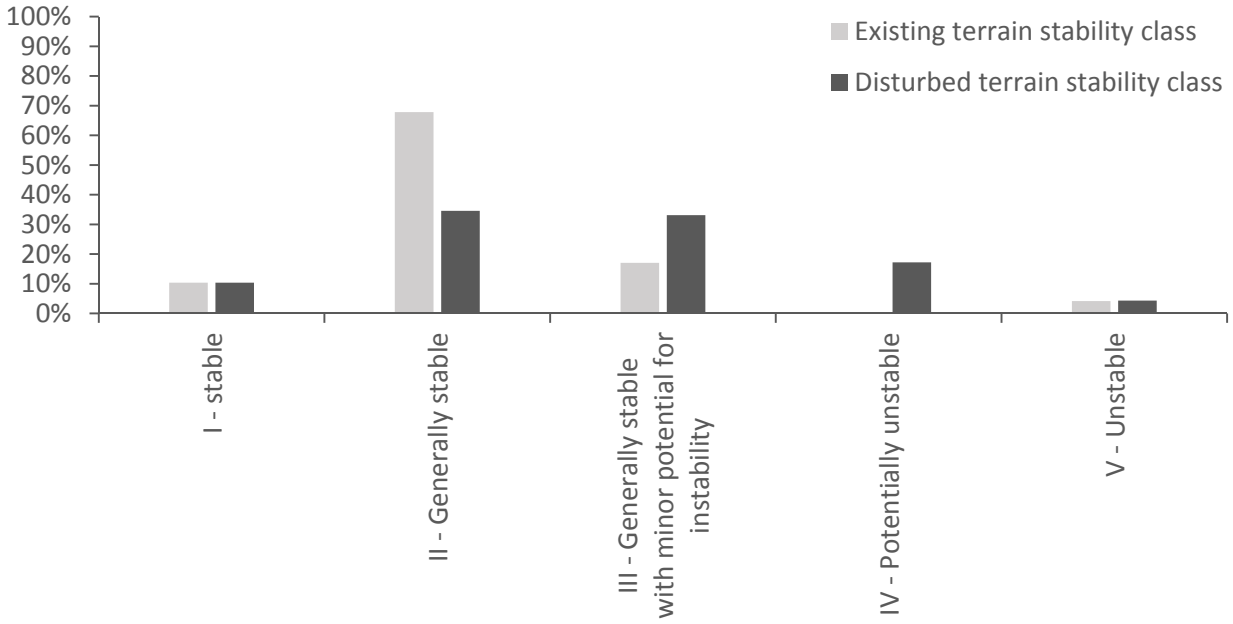


Figure 5-1. Histogram of proportional areal coverage of existing and disturbed terrain stability classifications in the study area

According to the disturbed terrain stability class, the proportion of terrain stability polygons with a 'generally stable' (Class II) rating drops from 67% (existing) to 35% (disturbed) (**Figure 5-1**). Many of these polygons become 'generally stable with minor potential for instability' (Class III, 33%) or 'potentially unstable' (Class IV, 17%) if disturbed without mitigation. This notable increase in terrain stability class reflects the sensitivity of permafrost terrain to disturbance, which can initiate or exacerbate active-layer detachments and thermokarst.

The distinction between existing and disturbed terrain stability classes allows accurate representation of potential upslope (e.g., active-layer detachments) or downslope (e.g., thermal erosion) hazards that are unaffected by proposed infrastructure footprints. This format of mapping distinguishes natural hazards, which may be triggered by occurrences such as wildfire, from those potentially exacerbated or initiated by project-related disturbance. For example, a particular polygon crossed by the proposed road may have a disturbed terrain stability class of IV (potentially unstable). Its existing terrain stability class, however, may only be II (generally stable). Therefore, the potential hazard posed by terrain conditions within this polygon could be recognized as being appreciably lower if the road passes beneath it than if it crosses it.

Each disturbed terrain stability class was qualified according to the main influential types of disturbance. Project-related construction, without mitigation, is projected to be the main driver of terrain instability in approximately 54% of the study area. Approximately 45% of the study area is sensitive to both project-related construction and climate change. Waterbodies comprise the remaining 1% of the study area. Identification of disturbance type does not necessarily indicate that this disturbance is projected to increase the terrain stability class from the existing to the disturbed condition, as the projected responses of many map units are minor (within a given stability class). No map units were classified as only being sensitive to climate change.

5.2 Hazards Overview

The mapping of terrain (Map 1, **Appendix A**) and terrain stability and hazards (Maps 2 (**Appendix B**) and 3 (**Appendix C**)) collectively identifies various forms of hazards through the assignment of geomorphological process codes (polygon-scale) and discrete geomorphological processes (point or linear features), in addition to the actual terrain stability classes. **Table 5-1** outlines the likelihood and potential magnitude of hazard occurrence over the mine life, generalized according to each of the identified hazards within the study area. Project considerations are also included in order to better communicate the implications of different processes for infrastructure design and future maintenance requirements. Site-specific hazards with the potential to affect each of the proposed components of mine infrastructure are characterized below in association with the risk assessment (Section 6).

5.3 Slope Failure and Thermokarst

As discussed in Section 3.4, each polygon was more broadly categorized according to its dominant potential hazard – slope failure, thermokarst or both – in order to highlight those areas where thermokarst activity is possible in addition to the default instability related to slope failure. This hazard category is not intended to represent the existence or imminence of thermokarst (or slope failure); its aim is to rule out certain areas from the possibility of thermokarst activity. 'Thermokarst potential' dominates the applicable hazard category within approximately 34.8% of the study area (**Figure 5-2**). Such areas are generally characterized by gentle or moderate slopes with ice-moderate or ice-rich permafrost. The potential for thermokarst outweighs the much lower possibility of slope failure in these areas. Approximately 10.6% of the study area has been categorized co-dominantly with 'slope failure and thermokarst potential'. Such areas are distinguished from those dominated only by thermokarst potential by their slope class of moderate (class 3) or higher. A category of 'slope failure potential dominant' applies to all other areas (54.2%), except anthropogenic and open water areas (not applicable, 0.4%), irrespective of the possibility of slope failure (e.g., fluvial plains).

Hazards may affect the footprints locally (e.g., thermokarst subsidence), upslope (e.g., active-layer detachment running out into or across footprint) or downslope (e.g., retrogressive erosion of thermokarst gullies) of the footprints. The distribution of terrain hazards within and immediately surrounding the footprints of proposed project infrastructure is characterized below in association with the facility-specific risk assessment (Section 6).

Table 5-1. Generalized characteristics and considerations for hazards within the study area

Hazard	Likelihood (over mine life)	Magnitude	Project considerations
Rockfall	Typically recurrent and frequent, where present; freshness of talus at base of bluff indicative of recency	Generally small in volume, but rapid and dense	Plan for rockfall below bluffs, especially in areas of fresh deposits (avoid or mitigate), and on steep slopes with small bedrock outcrops
Debris slide	Most likely to occur on steep slopes exhibiting history of debris sliding, especially within or adjacent to recent scars	Generally small to moderate in volume, but rapid and moderately dense	Avoid debris slide slopes and runout zones, or otherwise manage trajectories
Debris flow	Most likely to occur on steep and/or gullied slopes exhibiting history of debris flows, especially adjacent to recent deposits	Generally small to moderate in volume, but rapid and moderately dense	Avoid debris flow paths and runout zones, or otherwise manage trajectories
Debris flood	Most likely to occur along narrowly confined watercourses with high sediment inputs from adjacent slopes	Generally moderate to large in volume, rapid and moderately dense	Avoid development within the paths or runouts (fans) of debris floods, or otherwise manage trajectories
Rock creep	Periodic movement expected; freshness of patches of rock debris indicative of recency	Small volume, short distance, slow movements of angular rock debris	Expect increased maintenance and allow for minor settlement and shifting of rock debris
Gullying	Periodic and localized gully erosion processes (e.g., fluvial incision, side wall mass wastage)	Generally incremental and localized incision, and minor surface sloughing	Minimize crossings of gullied slopes, especially where underlain by permafrost, and expect increased maintenance
Solifluction	Near-continuous, incremental movement	Small volume, short distance, slow (mm/yr to cm/yr) movements of silt-rich debris	Expect increased maintenance and allow for minor settlement and shifting of surficial material
Thaw flow slide	Most likely to occur on recently disturbed or burned slopes, slopes with previous failures (including within existing scars), or in steep and/or gullied terrain especially downslope of any sites of newly concentrated surface runoff	Small to moderate in volume; generally rapidly transports organic-rich surficial material tens to hundreds of metres downslope	Avoid slopes that exhibit a history of active-layer detachments, or otherwise accommodate their possible occurrence, minimize disturbance to surface organics and drainage, and expect increased maintenance for debris removal
Thermokarst subsidence	Gradual or periodic settlement, especially in areas of ice-rich permafrost	Isolated, slow deepening of ground surface depressions, formation and expansion of ringing tension cracks, and possible slow, inward slumping	Minimize disturbance to surface organics and drainage in areas of ice-moderate to ice-rich permafrost through appropriate gravel embankments/pads and water management, and expect increased maintenance that could involve localized road reconstruction; consider monitoring settlement
Thermal erosion	Gradual or periodic incision, especially in areas of ice-rich permafrost	Localized, slow, commonly retrogressive incision of rills or gullies, formation and expansion of adjacent tension cracks, and possible slow, inward slumping	Avoid or minimize concentrating surface runoff in areas of ice-moderate to ice-rich permafrost, especially into pre-existing gullies, and expect increased maintenance that could involve localized road reconstruction; consider monitoring incision
Slopewash	Seasonal slopewash and transport of fine sediments within runnels; near-continuous seepage	Localized, slow transport of fine sediments, and seepage and icing especially in runnels	Accommodate seepage-induced icing accumulation especially within intercepted runnels, expect increased maintenance due to fine sediment delivery adjacent to road, and manage downslope drainage
Meander migration & irregularly sinuous channels	Episodic erosion of banks, mainly along the outside of meanders, in association with high flow events	Destabilization of road or crossing structures by incremental erosion or undercutting and slumping	Accommodate natural meander migration processes, where possible, by maintaining setbacks appropriate to the site; otherwise, proactively protect the road from erosion using appropriately sized riprap or alternative measures

Note: Mapped geomorphological processes that are inactive (e.g., meltwater channelled) or do not represent hazards (e.g., cryoturbation) are not included.

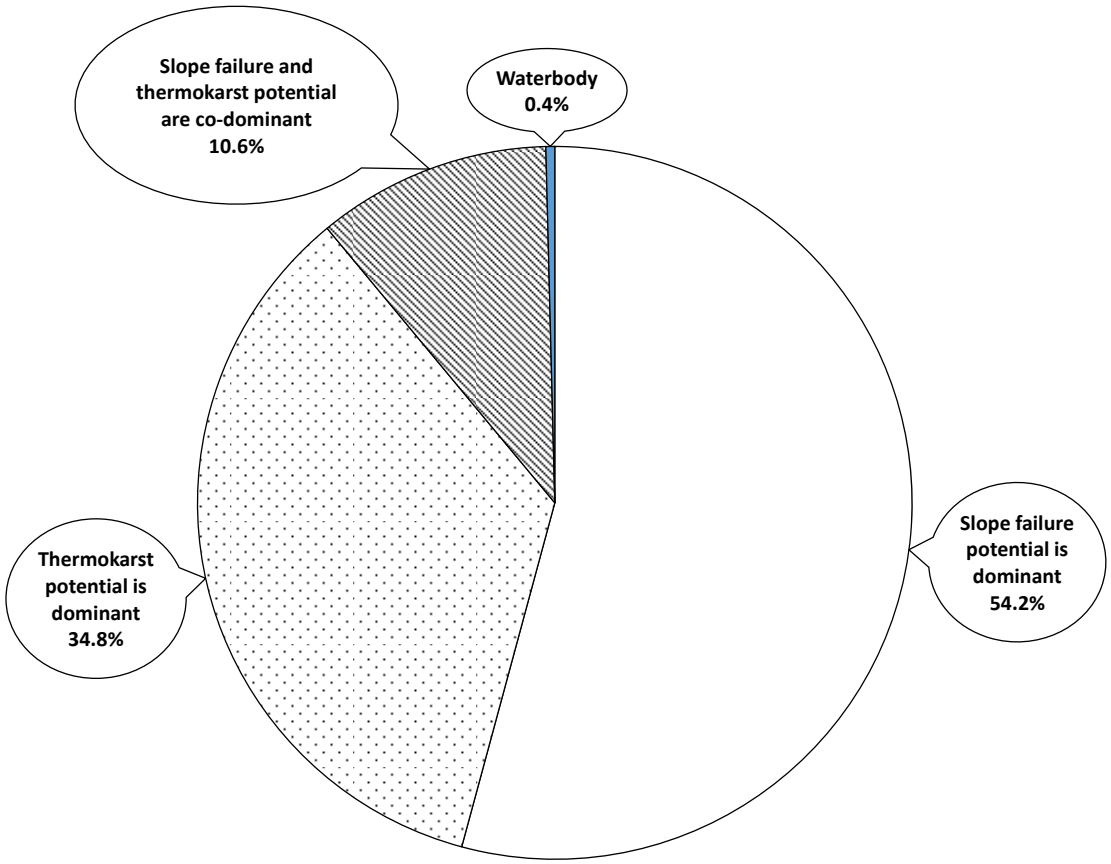


Figure 5-2. Areal proportion (%) of applicable hazard categories in the study area (symbolization matches overlays on terrain stability/hazards maps)

5.4 Other Hazard Considerations

Several other processes were noted as potential hazards through the mapping process, but delineation of their limits requires site-specific investigation and analysis of detailed hydrological and topographic data beyond the scope of this assessment:

- **Icing** – Icing, commonly referred to as 'glaciation', is the accumulation of ice (aufeis) during winter along streams and large slopewash runnels that receive near-continuous groundwater seepage from unfrozen portions of active layers or adjacent permafrost-free ground (**Photo 5-1**). Icings form through the accretion of layers of ice, attaining thicknesses of up to several metres and widths of several tens of metres, depending on site topography. Icings within the study area likely initiate mid-autumn and may persist well into spring where thickest and most shaded. Staff at the KZK Project camp report having to break up or melt ice that accumulates within, and blocks, a few culverts along the existing access road. Large accumulations of aufeis along stream beds and low-lying areas of floodplains can also increase the width (and height) of flooding if intense rainfall or snowmelt occurs before the ice has thinned and broken up. Allowances should be made in the design of crossings of icing-prone drainages for both the formation and failure of aufeis, as well as potential flooding in excess of that predicted by regular hydrological analysis.

Photo 5-1. Example of icing spanning the bottom of a headwater drainage in central Yukon

- **Flooding and Beaver Dam Effects** – Sections of road that cross or follow low-lying areas alongside modern streams may be subject to temporary flooding (inundation) during intense or prolonged rainfall or snowmelt. Small ice jams, which can also significantly raise water levels, could exacerbate flooding. Riparian vegetation patterns and soil profiles provide indicators of the approximate limits and frequency of flooding. In general, map units attributed with "meander migration" (-M) or "irregularly sinuous channels" (-I) geomorphological processes exhibit broad floodplains prone to flooding. As alluded above in Section 3.1, consideration should also be given to the possibility of flooding from beaver dams, both upstream within areas of potential inundation and downstream following a sudden breach and outburst. Geona Creek exhibits a history of beaver activity, including along its headwater reaches such as in the vicinity of the proposed water management ponds (**Photo 5-2**). Evidence includes (i) breached beaver dams (woody debris and mud exposed in creek banks); (ii) floodplain-spanning, arcuate patterns in vegetation (e.g., willows) elevated slightly from the surrounding, poorly drained ground; and (iii) anomalous clearings supporting wet meadow vegetation of similar species and age, indicative of areas formerly inundated behind beaver dams.
- **Creek Bed Degradation and Aggradation** – Degradation, also known as channel down-cutting, is the lowering of stream bed elevation due to erosion overwhelming deposition at a reach scale. Aggradation, or channel infilling, is the raising of stream bed elevation due to deposition outpacing erosion at a reach scale. Both degradation and aggradation along streams may pose hazards to crossing structures (e.g., culverts or bridges) if not recognized and accommodated in the design. Degradation can lead to undermining of abutments, potentially destabilizing crossing structures, and perching of culverts. Aggradation can reduce the hydraulic capacity of the channel or crossing structures by partial infilling, which in turn can increase the frequency of overbank flooding and the potential for road overtopping.

Photo 5-2. Cascade over breached beaver dam near proposed water management ponds

6. Risk Evaluation and Mitigation Measures

An evaluation of the credible risks posed to the Project by specific hazards was completed according to the procedure described above in Section 3.5. The term, credible risk, is used to distinguish scenarios that warrant special consideration due to the nature of the associated hazard(s) in a particular area, from scenarios that should be satisfactorily addressed through planned construction methods and related best management practices. For example, risks related to road upgrades or realignment in permafrost-free areas (commonly terrain stability classes of I, II or III) or in areas of ice-poor or ice-moderate permafrost (commonly disturbed terrain stability classes of II, III or IV) can be addressed through standardized construction techniques expressed in typical cross-sections prepared for the Project by OEL (2016). Risks associated with ice-rich permafrost (commonly a disturbed stability class of IV) warrant additional attention and were preliminarily identified as credible and prioritized for evaluation.

Based on the project-specific risk evaluation matrix (**Table 3-2**), **Table 6-1** presents the systematic risk evaluation applied to each credible hazard posed to the main proposed mine infrastructure footprints. **Table 6-2** presents the same evaluation for the existing/proposed access road. The risks reported in both tables represent an *unmitigated* condition. Opportunities to mitigate the risks, which are either recommended or already planned in association with mine development and operations (noted, where applicable), provide a means of reducing risks to acceptable, residual levels.

Table 6-1. Evaluation of risks posed by terrain hazards to proposed mine infrastructure

Facility	Hazard	Hazard Description	Likelihood (unmitigated)	Consequence (unmitigated)	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
Open Pit The two-part open pit is proposed in the centre of the valley at the headwaters of Geona Creek. The pit walls will extend upward until they meet the existing ground surface within the valley bottom or on either valley side. It is assumed that any existing hazards within the footprint of the open pit do not pose any risks, given that the ground on which they occur will be fully stripped and then removed during mining operations. The focus is on hazards adjacent to the open pit that could pose risks to mining operations within or immediately adjacent to the pit. NOTE: There are no notable risks to (1) the adjacent paste plant, which is proposed to be situated in a gentle draw with thin (<1 m) overburden without permafrost (and well beyond the maximum runouts of small debris flows observed at the head of the draw); (2) the pit rim pond, which is proposed to be situated on the valley bottom on an alluvial plain punctuated by a remnant glaciofluvial terrace; or (3) the spur roads that access the pit entrance.	Active-layer detachments & retrogressive thaw slumping (-Xf)	The eastern portions of both portions of the open pit extend up the eastern valley side, crossing map units where active-layer detachments have recently occurred (Poly_IDs 426 and 499). One of the active-layer detachments initiated immediately above an exploration road cut. As mining operations proceed and the pit limits expand outward, there is a potential for similar active-layer detachments to occur naturally or in response to exposure of permafrost and the implicit alteration of drainage patterns that follows. More broadly, there is potential for retrogressive thaw slumping of ice-moderate till and colluvium freshly exposed along the eastern and western rims of the pit (Poly_IDs 403, 409, 426 and 499). *Active-layer detachments and retrogressive thaw slumping could transport material over the rim of the pit, thereby posing a risk to mining operations immediately within or adjacent to the pit rim.*	Moderate	Moderate	Moderate	Construct a berm along the upslope perimeter of the open pit in order to divert or accommodate localized mass movements, or extend the area of stripping slightly beyond the rim of the open pit, so that any localized mass movements terminate before entry.	Moderate	Negligible	Negligible
	Solifluction (-S)	Two small edges of the westernmost portion of the open pit footprint extend onto a moderate slope blanketed in till that exhibits solifluction (Poly_ID 403). Ongoing solifluction could deposit material inside the rim of the pit, albeit at a rate that does not constitute a risk.	High	Negligible	Negligible	N/A	High	Negligible	Negligible
	Debris floods (-Rt)	The southern portion of the open pit extends well into the map unit representing the large, active alluvial fan at the mouth of Fault Creek (Poly_ID 461), which drains a mountainous basin west of Geona Creek. In addition to being prone to normal (clearwater) floods, Fault Creek also exhibits a history of recurrent debris floods. A debris flood that transported and deposited gravels to the maximum limits of the alluvial fan along two distributary channels occurred between 1986 and 1992, based on comparison between historical aerial photographs. This is consistent with a minimum age of 21 years derived dendrochronologically from the tallest willow in the cleared path of the flood event. Earlier events appear to have occurred along similar paths prior to 1949 (the earliest available aerial photograph). Debris floods likely occur during intense/prolonged rainfall events following saturation and sudden mobilization of in-channel debris that has accumulated from frequent debris slides originating along the steep gully sidewalls. *Debris floods (and normal floods) pose a risk to operations within the open pit, given their potential to deposit large volumes of water and sediment in the pit within a short timeframe.*	Moderate	High	High	Construct a diversion ditch and berm (as planned, Drawing C560, KP, 2016b), beginning at the apex of the fan, to divert floods/sediment into the abandoned channel west of the current channel, thereby minimizing cut/fill requirements. Sufficient cross-sectional area must be available in the excavated diversion channel to accommodate floodwaters and rapid aggradation along the bed.	Moderate	Negligible	Negligible

Facility	Hazard	Hazard Description	Likelihood (unmitigated)	Consequence (unmitigated)	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
Class A Storage Facility The facility is proposed with its upper limit near treeline.on the middle to upper slope of the western valley side of upper Geona Creek. NOTE: There are no notable risks to the collection pond at the base of the facility, or to the spur roads accessing it.	Solifluction (-S)	All of the map units encompassing the facility footprint exhibit veneers of till and/or colluvium on gentle to moderate slopes. One map unit along the upper edge of the facility, south of the meltwater channel, exhibits evidence of minor solifluction over ice-poor permafrost or bedrock (Poly_ID 331). The gradual build-up of material against or on top of the western perimeter of the facility is less of a concern than the potential for mine waste placed on the soliflucting till to eventually creep downslope. *Continued solifluction at the base of the mine waste poses a long-term (post-closure) risk to the integrity and surface form of the facility, due to the potential for slow creep of mine waste within portions of the facility.*	Moderate	Low	Low	Pre-strip overburden (as planned, AEG, 2017) at least within the areas of minor solifluction and/or be prepared to monitor and maintain the facility surface such that any localized creep does not impact the management of surface runoff. Ensure upslope surface and near-surface runoff (active layer or to bedrock) are diverted around the facility (as planned, AEG, 2017), in order to inhibit water entry.	Negligible	Low	Negligible
Class B Storage Facility The facility is proposed with its upper limit near treeline on the middle to lower slope of the western valley side of upper Geona Creek. NOTE: There are no notable risks to the Mill Site or collection pond at the base of the facility, or to the spur roads accessing it.	Thermokarst subsidence (unmapped; potential only)	Two map units within the upper third of the facility footprint are blanketed in till inferred to have a moderate ice content (Poly_IDs 403 and 409). Till containing seams or small lenses of ground ice has the potential to settle irregularly, albeit likely only modest (<1 m) amounts, if the ground thermal regime changes and the ice thaws. *Potential differential settlement following degradation of ice-moderate permafrost at the base of the mine waste poses a risk to the surface form of the facility.*	Moderate	Low	Low	Pre-strip overburden (as planned, AEG, 2017) at least within the areas of ice-moderate permafrost and/or be prepared to monitor and maintain the facility surface such that surface runoff is managed. Ensure upslope surface and near-surface runoff (active layer or to bedrock) are diverted around the facility (as planned, AEG, 2017), in order to inhibit water entry and retention.	Negligible	Low	Negligible

Facility	Hazard	Hazard Description	Likelihood (unmitigated)	Consequence (unmitigated)	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
	Solifluction (-S)	Two map units within the upper third of the facility footprint that are veneered by colluvium (Poly_ID 405) or blanketed by till (Poly_ID 403) exhibit solifluction. The gradual build-up of material against or on top of the western perimeter of the facility is less of a concern than the potential for mine waste placed on the soliflucting material to eventually creep downslope. *Continued solifluction at the base of the mine waste poses a long-term (post-closure) risk to the integrity and surface form of the facility, due to the potential for slow creep of mine waste within portions of the facility.*	High	Low	Moderate	Pre-strip overburden (as planned, AEG, 2017) at least within the areas of solifluction and/or be prepared to monitor and maintain the facility surface such that any localized creep does not impact the management of surface runoff. Ensure upslope surface and near-surface runoff (active layer or to bedrock) are diverted around the facility (as planned, AEG, 2017), in order to inhibit water entry.	Negligible	Low	Negligible
Class C Storage Facility The facility is proposed within a hanging valley that enters the Geona Creek valley from the east. NOTE: There are no notable risks to the collection pond at the base of the facility, or to the spur roads accessing it.	Solifluction (-S)	The northern and central thirds of the footprint are underlain by well drained till veneers to blankets and glaciofluvial landforms with no notable hazards. Conspicuous solifluction slopes, exhibiting both lobe and terrace forms, descend the north-facing valley side into the southern portion of the footprint (Poly_IDs 427, 428 and 432). The gradual build-up of material against or on top of the southern perimeter of the facility is less of a concern than the potential for waste rock placed on the soliflucting till to eventually creep downslope. *Continued solifluction at the base of the placed waste rock poses a long-term (post-closure) risk to the integrity and surface form of the facility, due to the potential for slow creep of waste rock within portions of the facility.*	High	Low	Moderate	Pre-strip overburden containing permafrost with excess ice and/or design the facility such that it anticipates and accommodates minor solifluction, depending on the results of site-specific investigations to support engineering design. Maintain positive surface drainage to discourage infiltration and water retention. Ensure upslope surface and near-surface runoff (active layer or to bedrock) are diverted around the facility (as planned, AEG, 2017), in order to inhibit water entry.	Negligible	Low	Negligible

Facility	Hazard	Hazard Description	Likelihood (unmitigated)	Consequence (unmitigated)	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
Upper Water Management Pond The pond is situated on the valley bottom of upper Geona Creek. NOTE: The spur road paralleling the eastern shoreline of the pond traverses the same map units and thus is exposed to the same hazards.	Active-layer detachments & retrogressive thaw slumping (-Xf)	The proposed shoreline traverses the base of the eastern valley side, which is covered by a veneer of colluvium overlying moderately sloping till inferred to contain ice-moderate permafrost (Poly_IDs 304 and 309). Inundating the lower valley sides will saturate unfrozen surficial materials (e.g., active layer), and initiate or accelerate permafrost degradation, both of which promote mass movement. Several, small active-layer detachments have occurred near the base of the eastern valley side, within and immediately up-valley of the proposed dam footprint. Although all the active-layer detachments were short-travelled, having maximum runouts of <10 m, they were up to 40 m wide and have locally triggered degradation of ice-moderate permafrost. This degradation has resulted in thickening of the active layer and minor upslope retrogression of the headscarp through thaw slumping. *This existing combination of active-layer detachments and retrogressive thaw slumping, which could be exacerbated following inundation, poses a risk to the stability of the dam through its effects on foundation materials and the possibility of overtopping by a displacement wave generated by a small mass movement (although any displacement waves from typical permafrost-related failures are likely to be small, rapidly attenuated and readily accommodated by the much larger pond). Excessive sedimentation could occur in the pond due to gradual thawing and erosion of shoreline materials, necessitating increased maintenance.*	High	Moderate	High	Pre-strip all overburden with permafrost (to bedrock or competent, ice-free material) within the pond and dam footprints, and extend stripping along the pond perimeter/berm, including the immediate upslope area. Ensure the dam foundation is keyed into competent, ice-free material. Monitor and manage (as required) the stripped areas above the pond perimeter/berm for deposition of localized mass movements. Where required, implement spur road construction techniques specifically designed for ice-rich permafrost (as per OEL, 2016). All mitigations identified above are planned by BMC (pers. comm., 2017).	Negligible	Moderate	Negligible

Facility	Hazard	Hazard Description	Likelihood (unmitigated)	Consequence (unmitigated)	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
Lower Water Management Pond The pond is situated on the valley bottom of upper Geona Creek. NOTE: The spur road paralleling the eastern shoreline of the pond traverses the same map units and thus is exposed to the same hazards.	Active-layer detachments & retrogressive thaw slumping (-Xf)	The proposed shoreline traverses the base of the eastern valley side, which is covered by a veneer of colluvium overlying moderately sloping till inferred to contain ice-moderate permafrost (Poly_IDs 304 and 309), and the base of the western valley side, which is covered by a blanket of till also inferred to have moderate ice content (Poly_ID 290). Inundating the lower valley sides will saturate unfrozen surficial materials (e.g., active layer) and initiate or accelerate permafrost degradation, both of which promote mass movement. Several, small active-layer detachments have occurred along the base of both valley sides, below and along the proposed shoreline. Although all the active-layer detachments were short-travelled, having maximum runouts of <20 m, they were up to 70 m wide and have locally triggered degradation of ice-moderate permafrost. This degradation has resulted in thickening of the active layer and minor upslope retrogression of the headscarp through thaw slumping. *This existing potential for active-layer detachments and retrogressive thaw slumping, which could be exacerbated following inundation, poses a risk to the stability of the dam through its effects on foundation materials and the possibility of overtopping by a displacement wave generated by a small mass movement (although any displacement waves from typical permafrost-related failures are likely to be small, rapidly attenuated and readily accommodated by the much larger pond). Excessive sedimentation could occur in the pond due to gradual thawing and erosion of shoreline materials, necessitating increased maintenance.*	High	Moderate	High	Pre-strip all overburden with permafrost (to bedrock or competent, ice-free material) within the pond and dam footprints, and extend stripping along pond perimeter/berm, including the immediate upslope area. Ensure the dam foundation is keyed into competent, ice-free material. Monitor and manage (as required) the stripped areas above the pond perimeter/berm for deposition of localized mass movements. Where required, implement spur road construction techniques specifically designed for ice-rich permafrost (as per OEL, 2016). All mitigations identified above are planned by BMC (pers. comm., 2017).	Negligible	Moderate	Negligible
Overburden Stockpile The stockpile is proposed midslope on the gentle, southwest-facing valley side of upper Geona Creek. NOTE: There are no notable risks to spur roads accessing the facility.	Thermokarst subsidence (unmapped; potential only)	One map unit encompassing most of the collection pond and a topsoil stockpile immediately downslope, and extending to the base of the facility, exhibits a colluvial veneer overlying a blanket of till inferred to have a moderate ice content (Poly_ID 334). Till containing seams or small lenses of ground ice has the potential to settle irregularly, albeit likely only modest (<1 m) amounts, if the ground thermal regime changes and the ice thaws. *Potential differential settlement following degradation of ice-moderate permafrost at the base of the stockpiled topsoil/overburden and the collection pond poses a risk to the surface form of the facilities.*	Moderate	Low	Low	Pre-strip overburden containing permafrost with excess ice and/or be prepared to monitor and maintain the facility surface such that surface runoff is managed as anticipated. Ensure upslope surface and near-surface runoff (active layer or to bedrock) are diverted around the facility (as planned, AEG, 2017), in order to inhibit water entry and retention.	Negligible	Low	Negligible

Facility	Hazard	Hazard Description	Likelihood (unmitigated)	Consequence (unmitigated)	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
Process Plant, Water Treatment Facility and Mill Site The facility is proposed on the gentle, lower slope of the western valley side of upper Geona Creek, between the bases of the Class A and B Storage Facilities. NOTE: There are no notable risks to spur roads accessing the facility.	Thermokarst subsidence (unmapped; potential only)	Most of the facility is encompassed by map units characterized as relatively thin till blankets inferred to have moderate ice contents (Poly_IDs 332, 353, 361 and 366). Till containing seams or small lenses of ground ice has the potential to settle irregularly, albeit the materials are so thin in this case that potential settlement does not constitute a risk.	Moderate	Negligible	Negligible	N/A	Moderate	Negligible	Negligible

Table 6-2. Evaluation of risks posed by terrain hazards to the proposed access road (including existing sections)

Kilometre Range	Hazard	Hazard Description	Likelihood	Consequence	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
1.24-1.26	Thermokarst subsidence (-Xt)	The existing/proposed road crosses a narrow portion of a map unit characterized by a thin veneer of fluvial sediments overlying an ice-rich blanket of till (Poly_ID 10). There is already evidence of thermokarst subsidence within the map unit. *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Moderate	Moderate	Moderate	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	Moderate	Negligible
3.37-3.41	Thermal erosion (-Xe)	The existing/proposed road crosses the head of a large gully incised through a glaciofluvial cap into a thick blanket of ice-rich till (Poly_ID 46). There is no obvious evidence of active thermokarst gullying within the map unit, but the road crosses the gully at a prominent knickpoint, increasing its susceptibility to impact from possible upstream migration and associated down-cutting of the stream bed. *The short segment of road is at risk of differential settlement and down-cutting through knickpoint migration in response to potential degradation of ice-rich permafrost.*	Low	High	Moderate	Monitor knickpoint position and implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Low	Negligible	Negligible
4.37-4.61	Thermal erosion (-Xe)	The existing/proposed road crosses a narrow portion of a map unit characterized by a thick, ice-rich till blanket that exhibits active slopewash and thermokarst gullying (Poly_ID 51). Ponding along the road edge is contributing to permafrost degradation. *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Moderate	Moderate	Moderate	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	Moderate	Negligible
4.95-5.04	Thermal erosion (-Xe)	The existing/proposed road crosses a narrow map unit characterized by a thin veneer of fluvial sediments overlying an ice-rich blanket of till. There is already evidence of active thermokarst gullying within the map unit (Poly_ID 59) and an immediately adjacent one (Poly_ID 67), and a road sign approaching the crossing warns of icy conditions (seasonally), which KZK Project camp staff confirmed relates to prolonged seepage onto the road surface. *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Moderate	Moderate	Moderate	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	Moderate	Negligible
5.76-5.81	Thermal erosion (-Xe)	The existing/proposed road crosses a thermokarst gully that has incised into the underlying thick, ice-rich till blanket. The gully exhibits active thermokarst gullying, especially downslope of the road crossing where vertical scarps of ice-rich permafrost are exposed and the stream now flows subsurface through a 2 m-diameter 'tunnel' before emerging 40 m farther downslope (Poly_ID 67). *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Moderate	High	High	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016). As an additional contingency, be prepared to realign the road slightly westward.	Negligible	High	Negligible

Kilometre Range	Hazard	Hazard Description	Likelihood	Consequence	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
6.52-7.13	Thermal erosion (-Xe)	The existing/proposed road crosses several contiguous map units characterized by thick deposits of ice-moderate to ice-rich till (Poly_IDs 82, 83 and 88), which locally exhibits thermokarst gullying, particularly downslope of the road where bank collapses are widespread (Poly_ID 83). *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Moderate	Moderate	Moderate	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	Moderate	Negligible
7.51-7.56	Thermal erosion (-Xe) (unmapped; potential only)	The existing/proposed road crosses a narrow portion of a map unit characterized by a thick, ice-rich till blanket (Poly_ID 92) that exhibits slopewash and thermokarst gullying a short distance downslope (Poly_ID 93). *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Low	Moderate	Low	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	Moderate	Negligible
7.56-7.69	Thermal erosion (-Xe)	The existing/proposed road traverses a gently sloping, thick blanket of till, discontinuously veneered by glaciofluvial sediments (Poly_ID 93). The crest of the scarp that forms the wall of the main incised valley is within 55 m of the road. Several thermokarst gullies descend the valley wall to the floodplain of Finlayson Creek. One of the thermokarst gullies has formed recently and is actively deepening, widening and retrogressing upslope. More than 1 m of ice-rich till, with a visually estimated volumetric ice content of >50%, is exposed in the vertical sidescarp of the gully. The gully has grown from approximately 2 m deep and 20 m wide in the summer of 2016 to approximately 6 m deep and 35 m wide in September 2017. Its headscarp is 55 m from a small CSP culvert that concentrates upslope drainage beneath the road, possibly including active-layer throughflow from the adjacent slopewash polygon. Rapidly thawing permafrost is producing debris flows that have entered Finlayson Creek (Poly_ID 64). *The continued retrogression of this or an adjacent 'dormant' thermokarst gully, or the formation and extension of a new one, poses a risk to the stability of the road.*	Low	High	Moderate	Install additional culverts beneath the road and/or use permeable subgrade material, in order to diffuse the drainage and avoid unnatural concentrations of surface runoff that can initiate or exacerbate thermokarst gullying. Monitor the rate of retrogression of the headscarp toward the road, and, as a contingency, be prepared to realign the road slightly westward (upslope) if necessary. Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	High	Negligible
8.22-8.30	Thermal erosion (-Xe)	The existing/proposed road crosses a narrow map unit characterized by a thin veneer of fluvial sediments overlying an ice-rich blanket of till (Poly_ID 107). There is possible evidence of thermokarst gullying (bank collapses) downstream of the road, within the better defined gully (Poly_ID 97). *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Low	Moderate	Low	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	Moderate	Negligible

Kilometre Range	Hazard	Hazard Description	Likelihood	Consequence	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
8.30-8.70	Thermokarst subsidence (-Xt)	The existing/proposed road crosses a map unit characterized by an ice-rich blanket of till, possibly exhibiting the subtle surface expression of ice-wedge polygons (Poly_ID 105). There is early evidence of thermokarst subsidence in the immediate vicinity of the road: tilted, straight trees; hummocky micro-topography; and small ponded areas. *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Moderate	Moderate	Moderate	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	Moderate	Negligible
9.05-9.11	Thermokarst subsidence (-Xt) & retrogressive thaw slumping (-Xf)	The existing/proposed road crosses a narrow portion of a map unit characterized by a thin veneer of fluvial sediments overlying an ice-rich blanket of till (Poly_ID 111). There is already evidence of active thermokarst subsidence, four thaw ponds, within the map unit. The 1-3 m-high vertical headscarp of a small retrogressive thaw slump that formed shortly before 2016 is within 0.8 m of the downslope road edge (September 11, 2017), which is at immediate risk of being undercut and collapsing without intervention. Ponded water at the base of the headscarp has at least partly accumulated from the thawing of underlying ice-rich permafrost, an occurrence that promotes further thaw through the positive feedback cycle that develops. *The short segment of road is at immediate risk of at least partial collapse and differential settlement in response to continued degradation of ice-rich permafrost.*	High	High	Very High	Consider realigning the road slightly westward such that it is set-back from the adjacent valley wall while not encroaching on the actively subsiding ground around the thaw ponds. Attempts to stabilize the road by placing rock against the headscarp may be ineffective, as this cannot fully address the thawing that has begun. Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	High	Negligible	Negligible
9.68-9.79	Thermal erosion (-Xe)	The existing/proposed road crosses a narrow map unit characterized by a thin veneer of fluvial sediments overlying an ice-rich blanket of till (Poly_ID 122). There is already evidence of active thermokarst gullying within the map unit, albeit not in the immediate vicinity of the road crossing. *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Low	Moderate	Low	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	Moderate	Negligible
11.20-11.44	Thermokarst subsidence (-Xt)	The existing/proposed road crosses a map unit characterized by an irregular mantle of glaciofluvial sediments overlying an ice-rich blanket of till (Poly_ID 145). There are already two identified thaw ponds indicating active thermokarst subsidence within the map unit. One of these ponds is within 35 m of the road. *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Moderate	Moderate	Moderate	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	Moderate	Negligible

Kilometre Range	Hazard	Hazard Description	Likelihood	Consequence	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
11.44-11.79	Thermokarst subsidence (-Xt) (unmapped; potential only)	The existing/proposed road crosses a map unit characterized by a thick, ice-rich till blanket (Poly_ID 150). Although there is no evidence of active thermokarst subsidence, it could initiate given its occurrence in the immediately adjacent, similar map unit (Poly_ID 145). *The short segment of road is at risk of differential settlement in response to potential degradation of ice-rich permafrost.*	Low	Moderate	Low	Implement road upgrades with a thick gravel prism (and include an allowance for additional material placement and maintenance), minimal disturbance to adjacent ground, and minimal to no concentration of drainage (e.g., as per the typical cross-section for ice-rich permafrost, OEL, 2016).	Negligible	Moderate	Negligible
23.61-23.66	Solifluction (-S)	The proposed road crosses a narrow portion of a map unit characterized by a relatively thin blanket of till, exhibiting solifluction and inferred to have a moderate ice content (Poly_ID 403). The short segment of road is prone to minor downslope creep, although at typical solifluction rates of mm/yr to cm/yr it does not constitute a credible risk over the anticipated 10-year mine life. Furthermore, differential settlement in response to potential degradation of ice-moderate permafrost within a relatively thin till blanket will likely be minimal and not constitute a credible risk.	High	Negligible	Negligible	N/A	High	Negligible	Negligible
23.75-23.85	Solifluction (-S)	The proposed road crosses a narrow portion of a map unit characterized by a relatively thin blanket of till, exhibiting solifluction and inferred to have a moderate ice content (Poly_ID 403). The short segment of road is prone to minor downslope creep, although at typical solifluction rates of mm/yr to cm/yr it does not constitute a credible risk over the anticipated 10-year mine life. Furthermore, differential settlement in response to potential degradation of ice-moderate permafrost within a relatively thin till blanket will likely be minimal and not constitute a credible risk.	High	Negligible	Negligible	N/A	High	Negligible	Negligible
23.94-24.04	Solifluction (-S)	The proposed road crosses a narrow portion of a map unit characterized by a relatively thin blanket of till, exhibiting solifluction and inferred to have a moderate ice content (Poly_ID 403). The short segment of road is prone to minor downslope creep, although at typical solifluction rates of mm/yr to cm/yr it does not constitute a credible risk over the anticipated 10-year mine life. Furthermore, differential settlement in response to potential degradation of ice-moderate permafrost within a relatively thin till blanket will likely be minimal and not constitute a credible risk.	High	Negligible	Negligible	N/A	High	Negligible	Negligible
24.34-24.61	Solifluction (-S) & active-layer detachments (-Xf)	The proposed road crosses map units characterized by a relatively thin blanket of colluvium (Poly_IDs 402 and 405), exhibiting solifluction and localized tension cracks within the solifluction material, indicative of minor active-layer detachment. The short segment of road is prone to minor downslope creep, although at typical solifluction rates of mm/yr to cm/yr it does not constitute a credible risk over the anticipated 10-year mine life. *Very localized and short-travelled active-layer detachments pose a risk primarily for road maintenance.*	Moderate	Moderate	Moderate	Ensure road cuts are gentle (at least 2H:1V), avoid unnecessary concentration of drainage, and be prepared for periodic ditch maintenance.	Moderate	Negligible	Negligible

Kilometre Range	Hazard	Hazard Description	Likelihood	Consequence	Risk (unmitigated)	Mitigation Opportunities	Likelihood (mitigated)	Consequence (mitigated)	Residual Risk (mitigated)
24.61-25.33	Solifluction (-S)	The proposed road crosses a map unit characterized by a relatively thin blanket of till, exhibiting solifluction and inferred to have a moderate ice content (Poly_ID 403). The short segment of road is prone to minor downslope creep, although at typical solifluction rates of mm/yr to cm/yr it does not constitute a credible risk over the anticipated 10-year mine life. Furthermore, differential settlement in response to potential degradation of ice-moderate permafrost within the relatively thin till blanket does not pose a credible risk.	High	Negligible	Negligible	N/A	High	Negligible	Negligible
26.33-26.36	Debris slides & rockfall	The proposed road crosses a narrow map unit characterized by a densely-gullied, steep scarp that exposes a thick blanket of till overlying bedrock (Poly_ID 465). Shallow debris slides and rockfall occur on the erosional scarp alongside lower Fault Creek, immediately upstream of its alluvial fan apex, although the alignment is proposed at the lowermost, gentler end of the scarp. *The short segment of road is at risk from periodic debris slides and rockfall.*	Moderate	Moderate	Moderate	Consider realigning the road slightly downslope to avoid descending the low scarp, or ensure re-grading alleviates the over-steepened sections of scarp that produce debris slides and rockfall.	Moderate	Negligible	Negligible
26.36-26.76	Debris floods	The proposed road crosses the large, active alluvial fan at the mouth of Fault Creek (Poly_ID 461), which drains a mountainous basin west of Geona Creek. In addition to being prone to normal (clearwater) floods, Fault Creek also exhibits a history of recurrent debris floods. A debris flood that transported and deposited gravels to the maximum limits of the alluvial fan along two distributary channels occurred between 1986 and 1992, based on comparison between historical aerial photographs, which is consistent with a minimum age of 21 years derived dendrochronologically from the tallest willow in the cleared path of the flood event. Earlier events appear to have occurred along similar paths prior to 1949 (the earliest available aerial photograph). Debris floods likely occur during intense/prolonged rainfall events following saturation and sudden mobilization of in-channel debris that has accumulated from frequent debris slides originating along the steep gully sidewalls. *Debris floods (and normal floods) pose a risk to the road, given their potential to overtop and rapidly erode its embankment, or deposit large volumes of sediment on its surface within a short timeframe.*	Moderate	High	High	Construct a diversion ditch and berm (as planned, Drawing C560, KP, 2016b), beginning at the apex of the fan, to divert floods/sediment into the abandoned channel west of the current channel, thereby minimizing cut/fill requirements. Sufficient cross-sectional area must be available in the excavated diversion channel to accommodate floodwaters and rapid aggradation along the bed.	Moderate	Negligible	Negligible

7. Conclusion

Terrain stability and hazard mapping completed for the KZK Project presents the distribution and characteristics of terrain units, geomorphological processes and hazards within a 64 km^2 study area that encompasses the proposed mine site and its access road from the Robert Campbell Highway. This report and its accompanying maps support project planning and a response to YESAB's IR R162. A disturbed terrain stability class, representing projected conditions in the absence of planned mitigation measures, was distinguished from the existing stability class in order to highlight areas that warrant attention. The assessment of credible risks to the Project indicates how planned mitigations can be incorporated to address the site-specific hazards. Several key results warrant highlighting:

- Morainal (till) deposits are the most widespread surficial material within the study area, ranging in thickness from <0.5 m on ridges and upper slopes in the mine site area to more than 10 m in lower slope and valley bottom settings along the northern portion of the access road corridor.
- The primary mass movement hazards that may affect the footprints of the proposed mine facilities and access road, where not avoided or mitigated, are active-layer detachments, thermokarst subsidence, thermal erosion, solifluction and debris floods.
- Several actively incising thermal erosion gullies that cross or begin downslope of the access road reveal ice-rich permafrost within till. Road upgrades in areas of ice-rich permafrost should minimize the concentration of surface- and near-surface drainage in ditches and culverts in order to avoid or minimize thermokarst activity. Potential upslope migration of gully-bottom knickpoints currently situated downslope of the road should also be anticipated and accommodated.
- Glaciofluvial sand and gravel mantles extensive portions of the ice-rich till along the central to northern portion of the access corridor, giving the appearance at surface of stable, permafrost-free ground, but it cannot fully buffer the effects of ground disturbance. Such areas should be managed with consideration for the underlying ice-rich permafrost.
- The southern portion of the Open Pit is proposed to extend well into the area currently occupied by the active alluvial fan at the mouth of Fault Creek. Recurrent debris floods necessitate diversion of the channel to safely convey floodwater and sediment away from the Open Pit, with a channel design that accommodates rapid aggradation (infilling) during the cessation of a debris flood.
- Solifluction is widespread and active on the valley sides and in the upper basins above the proposed mine site. Solifluction transports material slowly downslope at rates of a few millimetres to centimetres per year, so it does not represent a credible risk to the proposed access road over a ten-year mine life. However, placement of mine waste or waste rock directly on soliflucting materials with excess ice is not advisable within the Class A, B or C Storage Facilities, given the increased potential for creep-related instabilities to develop during operations and continue post-closure.
- The Upper and Lower Water Management Ponds are proposed to be constructed along a section of Geona Creek valley that exhibits numerous, short-travelled, active-layer detachments and related retrogressive thawing along the base of the valley sides. Care should be taken to pre-strip all overburden containing permafrost with excess ice, at least in the footprint of the proposed dams, such that they can be keyed into competent, ice-free material.

- This study has demonstrated where and how project-related construction and/or climate change may affect terrain stability and hazards over the ten-year mine life. All credible risks posed to project infrastructure by the hazards can be reduced to acceptable, residual levels through the implementation of planned and additional recommended mitigation measures.

8. Statement of Limitations

This report (including its appended maps) has been prepared by the Consultant (Coregeo and Associates) for the benefit of the Client (BMC Minerals (No. 1) LTD) in accordance with the agreement between Consultant and Client, including the scope of work detailed therein (the "Agreement"). The report and the information it provides may be used and relied upon only by Client, except (1) as agreed to in writing by Consultant and Client, (2) as required by-law, or (3) to the extent used by governmental reviewing agencies for the purpose of obtaining permits or approvals.

The extent of this study was limited to the specific scope of work for which we were retained and that is described in this report. Coregeo and Associates has assumed that the information and data provided by the client or any secondary sources of information are factual and accurate. Coregeo and Associates accepts no responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of omissions, misinterpretations or negligent acts from relied-upon data. Judgment has been used by Coregeo and Associates in interpreting terrain stability and hazards based on desktop-based interpretation calibrated by field observations at sites representative of the diversity of conditions within the study area. Ground conditions may differ from those interpreted at a polygon scale, even where investigated in the field, due to inherent variability in terrain characteristics.

Coregeo and Associates is not a guarantor of the terrain, permafrost or hazard conditions within each of the mapped polygons, or of the related risk classifications (where applicable), but warrants only that its work was undertaken and its report prepared in a manner consistent with the level of skill and diligence normally exercised by competent geoscience professionals practicing in Yukon. Our findings, conclusions and recommendations should be evaluated in light of the limited scope of our work.

9. Certification

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10. References

Alexco Environmental Group, 2016. Acid Rock Drainage and Metal Leaching Characteristics of Material from the Kudz Ze Kayah Project, Yukon. Report prepared for BMC No.1 LTD.

Alexco Environmental Group, 2017. Kudz Ze Kayah Project: Project proposal for YESAB Executive Committee Screening. Report submitted to BMC Minerals (No.1) LTD, Vancouver, BC.

BC Ministry of Forests, 1994. A Guide for Management of Landslide-Prone Terrain in the Pacific Northwest, 2nd Edition. Land Management Handbook Number 18, 220 p.

BC Ministry of Forests, 1999. Mapping and Assessing Terrain Stability Guidebook 2nd ed., For. Prac. Br. B.C. Min. For., Victoria B.C. Forest Practices Code of British Columbia Guidebook.

BC Ministry of Forests and Range and BC Ministry of Environment, 2010. Field Manual for Describing Terrestrial Ecosystems 2nd Edition. Research Branch, BC Ministry of Forests and Range and Resources Inventory Branch, BC Ministry of Environment, Victoria, 266 p

Benkert, B.E., Fortier, D., Lipovsky, P., Lewkowicz, A., de Grandpré, I., Grandmont, K., Turner, D., Laxton, S., Moote, K., and Roy, L.-P., 2015. Ross River Landscape Hazards: Geoscience Mapping for Climate Change Adaptation Planning. Northern Climate ExChange, Yukon Research Centre, Yukon College. 116 p. and 2 maps.

Blais-Stevens, A., Couture, R. and Page, A., 2010. Landslide inventory along the Alaska Highway Corridor, Yukon. Geological Survey of Canada, Open File 6654.

Bond, J.D. and Plouffe, A., 2002. Finlayson Lake Targeted Geoscience Initiative (southeastern Yukon), Part 2: Quaternary geology and till geochemistry. *In:* Yukon Exploration and Geology 2001, D.S. Emond,

Bonnaventure, P.P., Lewkowicz, A.G., Kremer, M. and Sawada, M.C., 2012. A permafrost probability model for the southern Yukon and northern British Columbia, Canada. Permafrost and Periglacial Processes, vol. 23, p. 52-68.

Bostock, H.S., 1966. Notes on glaciation in central Yukon Territory. Geological Survey of Canada, Paper 65-36, 18 p.

Burn, C.R., 1998. The response (1958-1997) of permafrost and near-surface ground temperatures to forest fire, Takhini River valley, southern Yukon Territory. Canadian Journal of Earth Sciences 35: 184-199.

Clague, J.J., Evans, S.G., Rampton, V.N., Woodsworth, G.J., 1995. Improved age estimates for the White River and Bridge River tephras, western Canada. Canadian Journal of Earth Sciences 32: 1172-1179.

Cominco, 1997. Water Licence Application - Kudz Ze Kayah Project - Yukon Territory.

Cruden, D.M. and Varnes, D.J., 1996. Landslide types and processes. *In*: Turner, A.K. and Schuster, R.L. (eds.) Landslides investigation and mitigation. Transportation research board, US National Research Council. Special Report 247, Washington, DC, Chapter 3, p. 36–75.

Duk-Rodkin, A., 1999. Glacial limits map of Yukon Territory. Geological Survey of Canada Open File 3694; Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Geoscience Map 1999-2, scale 1:1 000 000.

Equity Exploration Consultants Ltd., 2016. 2015 Geological, Geophysical, Diamond Drilling and Environmental Report on the Kudz Ze Kayah Property. Vancouver, British Columbia, Canada: Equity Exploration Consultants Ltd. Report prepared for BMC No.1 LTD.

Golder Associates Ltd., 1996. Feasibility Level Mining Geotechnical Design Criteria for the ABM Deposit, Kudz Ze Kayah Project. Retrieved from Unpublished Technical Document for Cominco Ltd.

Gordey, S.P. and Makepeace, A.J. (compilers), 2003. Yukon digital geology, version 2.0. Geological Survey of Canada Open File 1749, and Yukon Geological Survey Open File 2003-9(D), 2 CD-ROMS.

Guthrie, R.H. and Cuervo, V. 2015. Geohazards and Risk: A Proponent's Guide to Linear Infrastructure. Yukon Environmental and Socio-economic Assessment Board, Whitehorse, YT, 47 pp + Appendices.

Heginbottom, J.A., Dubreuil, M.A. and Harker, P.T., 1995. Permafrost Map of Canada. *In*: The National Atlas of Canada, 5th Edition (1978-1995), Natural Resources Canada, sheet MCR 4177, 1:7,500,000 scale.

Howes, D.E. and Kenk, E., 1997. Terrain Classification System for British Columbia (Version 2). Province of British Columbia, Resource Inventory Branch, Ministry of Environment, Lands and Parks; Recreational Fisheries Branch, Ministry of Environment; and Surveys and Resources Mapping Branch, Ministry of Crown Lands, 102 p.

Hungr, O., Leroueil, S. and Picarelli, L., 2014. The Varnes classification of landslide types, an update. Landslides 11, p. 167-194.

Huscroft, C.A., Lipovsky, P.S. and Bond, J.D., 2004. A regional characterization of landslides in the Alaska Highway corridor, Yukon. Yukon Geological Survey, Open File 2004-18, 65 pp.

Hyndman, R.D., Cassidy, J.F., Adams, J., Rogers, G.C. and Mazzotti, S., 2005. Earthquakes and seismic hazard in the Yukon-Beaufort-Mackenzie. Canadian Society of Exploration Geophysicists Recorder 30(5), p. 1-17.

J.M. Ryder and Associates, Terrain Analysis Inc., 2002. A User's Guide to Terrain Stability Mapping in British Columbia. Final Draft, January 2002, 89 p.

Jackson, L.E. Jr., 1993a. Surficial geology, Fortin Lake, Yukon Territory. Geological Survey of Canada, Map 1795A, 1:100 000 scale.

Jackson, L.E. Jr., 1993b. Surficial geology, Rainbow Creek, Yukon Territory. Geological Survey of Canada, Map 1794A, 1:100 000 scale.

Jackson, L.E. Jr., 1994. Terrain inventory and Quaternary history of the Pelly River area, Yukon Territory. Geological Survey of Canada, Memoir 437, 41 p.

Kinnard, C., 2003. Development of solifluction lobes, Kluane Range, Yukon Territory. Unpublished MSc thesis, University of Ottawa, Ottawa, Canada, 231 p.

Knight Piésold Ltd., 2016a. Kudz Ze Kayah Project – Findings of Terrain Analysis. Report submitted to BMC Minerals (No.1) LTD, Vancouver, BC, 15 p.

Knight Piésold Ltd., 2016b. Prefeasibility Design Report, Kudz Ze Kayah Project. Report submitted to BMC Minerals (No.1) LTD, Vancouver, BC, 26 p. plus appendices.

Knight Piésold Ltd., 2016c. 2015 Geotechnical Site Investigation Data Report for Kudz Ze Kayah Project. Report submitted to BMC Minerals (No. 1) LTD, Vancouver, BC, 25 p. plus appendices.

Knight Piésold Ltd., 2016d. 2016 Geotechnical Site Investigation Data Report for Kudz Ze Kayah Project. Report submitted to BMC Minerals (No. 1) LTD, Vancouver, BC, 48 p. plus appendices.

Knight Piésold Ltd., 2017. 2017 Site Investigation – Preliminary Thermistor Data. Memorandum submitted to BMC Minerals (No.1) LTD, Vancouver, BC, 16 p. incl. appendices.

Lipovsky, P.S. and Bond, J.D. (compilers), 2014. Yukon digital surficial geology compilation, digital release 1, 08-Apr-2014, Yukon Geological Survey.

Mathews, W.H., 1986. Physiography of the Canadian Cordillera. Geological Survey of Canada, Map 1701A

Matsuoka, N., 2001. Solifluction rates, processes and landforms: a global review. Earth-Science Reviews, vol. 55, p. 107-134.

McGregor, R., Hayley, D.W., Wilkins, G., Hoeve, E., Grozic, E., Roujanski, V. and Jansen, A. 2010. Guidelines for Development and Management of Transportation Infrastructure in Permafrost Regions. Transportation Association of Canada.

McKillop, R., Turner, D., Johnston, K. and Bond, J., 2013. Property-scale classification of surficial geology for soil geochemical sampling in the unglaciated Klondike Plateau, west-central Yukon. Yukon Geological Survey, Open File 2013-15, 85 p., including appendices.

Murphy, D.C., Colpron, M., Roots, C.F., Gordey, S.P. and Abbott, J.G., 2002. Finlayson Lake Targeted Geoscience Initiative (southeastern Yukon), Part 1: Bedrock geology. In: Yukon Exploration and Geology 2001, D.S. Emond, L.H. Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 189-207.

Onsite Engineering Ltd, 2017. Kudz Ze Kayah Access Upgrade Construction Management Plan. Report submitted to BMC Minerals (No.1) LTD, Vancouver, BC, 44 p.

Price, L.W., 1991. Subsurface movement of solifluction slopes in the Ruby Range, Yukon Territory, Canada – a 20-year study. Arctic and Alpine Research, vol. 23, no. 2, p. 200-205.

Smith, S.L., Riseborough, D.W. and Bonnaventure, P.P., 2015. Eighteen year record of forest fire effects on ground thermal regimes and permafrost in the central Mackenzie Valley, NWT, Canada. Permafrost and Periglacial Processes, Wiley Online Library, DOI: 10.1002/ppp.1849.

Smith, C.A.S., Sanborn, P.T., Bond, J.D. and Frank, G., 2009. Genesis of Turbic Cryosols on north-facing slopes in a dissected, unglaciated landscape, west-central Yukon Territory. Canadian Journal of Soil Science, vol. 89, p. 611-622.

van Everdingen, R. (ed.), 2005. Multi-language glossary of permafrost and related ground-ice terms. Original publication in 1998. Boulder, CO: National Snow and Ice Data Center.

Varnes, D.J., 1978. Slope movement types and processes. *In*: Schuster, R.L. and Krizek, R.J. (eds.) Landslides, analysis and control, special report 176: Transportation research board, National Academy of Sciences, Washington, DC, p. 11–33.

Williams, D. J., 1995. Predicting the location of permafrost in central Yukon Territory. Unpublished MA thesis, Carleton University, Ottawa, Canada, 136 p.

Williams, J. and Burn, C.R., 1996. Surficial characteristics associated with the occurence of permafrost near Mayo, central Yukon Territory, Canada. Permafrost and Periglacial Processes., vol. 7, p.193-206.

Yukon Ecoregions Working Group, 2004. Yukon Plateau-North and Pelly Mountains. In: Ecoregions of the Yukon Territory: Biophysical properties of Yukon landscapes, C.A.S. Smith, J.C. Meikle and C.F. Roots (eds.), Agriculture and Agri-Food Canada, PARC Technical Bulletin No. 04-01, ummerland, British Columbia, p. 63-72.

Turner, D. G., 2014. Surficial geology, Ross River region, Yukon, parts of NTS 105K/1 & 2 and 105F/15 & 16 (1:25 000 scale). Yukon Geological Survey, Energy, Mines and Resources, Government of Yukon, Open File 2014-13.

Zoltai, S.C. and Pettapiece, W.W., 1973. Studies of vegetation, landform and permafrost in the Mackenzie Valley: Terrain, vegetation and permafrost relationships in the northern part of the Mackenzie Valley and northern Yukon. Report submitted to Environmental-Social Program Northern Pipelines, 105 p.

Zhang, X., Vincent, L.A., Hogg, W.D. and Niitsoo, A., 2000. Temperature and precipitation trends in Canada during the 20th century. *Atmosphere-ocean*, *38*(3), pp.395-429.

Appendix A

Map 1 – Terrain

A1. Map 1A – Mine Site Area
A2. Map 1B – Access Road Corridor

MAP 1A

TERRAIN - MINE SITE AREA

KUDZ ZE KAYAH PROJECT

Scale 1:10,000

0.25 0 0.25 0.5 0.75 1

kilometres

Universal Transverse Mercator Projection Zone 9 N
North American Datum 1983

Bare earth hillshade generated from LiDAR-derived DEM provided by BMC Minerals.
Base mapping from Geomatics Yukon and Natural Resources Canada
Original Page Size 27" x 49.25" (Includes 0.5" Margins)
October 2017

BMC MINERALS

Terrain mapping completed by D. Sacco and R. McKillop using softcopy photo-interpretation systems at a view (zoom) scale of 1:10,000, following field reconnaissance conducted in September 2017. Terrain codes are from the Yukon Geological Survey's adaptation of the Terrain Classification System for British Columbia (Howes and Kenk, 1997). Typical textures inferred based on observed landform associations.

Digital Cartography by B.Elder

CORE GEOSCIENCE SERVICES

PALMER ENVIRONMENTAL CONSULTING GROUP INC.

LEGEND

- Thermokarst pond
- Kettle hole
- Active layer detachment
- Debris flow
- Esker; dir. unknown
- Esker; dir. known
- Gully
- Meltwater channel; dir. known
- Meltwater channel; dir. unknown
- Thermokarst gully/erosion
- km marker
- Proposed Road

Dominant surficial material

O	Organic	F^G	Glaciofluvial
F	Fluvial	M	Morainal (till)
C	Colluvial	R	Bedrock
	Waterbody		

- Mine Site Area (1:10,000 Mapping)
- Access Road Corridor (1:20,000 Mapping)
- Proposed Mine Building or Ancillary Facility
- Proposed Mine Facility Footprint

LABEL FORMAT

Terrain component delimiter; Surficial material; Surface expression; Unique polygon identifier; Texture (increasing order of dominance); Geomorphological process & subclass (whole polygon)

Component 1 — zsdCb / sdFv - Xe — Component 2

123
2;i-p;m

Slope class; Drainage class(es); Permafrost relative ice content

TERRAIN CODE DEFINITIONS*

TEXTURE
- s sand
- z silt
- c clay
- d mixed fragments
- g gravel
- x angular fragments
- e fibric
- u mesic

SURFACE EXPRESSION
- a moderate slope (apron for colluvium)
- b blanket
- f fan
- h hummocky
- j gentle slope
- k moderately steep slope
- p plain
- r ridged
- s steep slope
- t terraced
- u undulating
- v veneer
- w mantle of variable thickness
- x thin veneer

GEOMORPHOLOGICAL PROCESS
- C cryoturbation
- E channeled by meltwater
- F slow mass movements
- I irregularly sinuous channels
- L surface steepage
- M meandering channels
- N nivation
- R rapid mass movements
- S solifluction
- U inundation
- V gully erosion
- X permafrost

DELIMITER AND MATERIAL SUBTYPE
- / the component in front of this symbol is more extensive than the component that follows
- // the component in front of this symbol is much more extensive than the component that follows
- \ the component in front of this symbol overlies the component that follows

GEOMORPHOLOGICAL PROCESS SUBCLASS
- " initiation zone

PERMAFROST PROCESSES
- e thermal erosion
- f thaw flow slides
- s sheetwash
- t thermokarst subsidence

MASS MOVEMENT PROCESSES
- b rockfall
- d debris flow
- g rock creep
- s debris slide
- t debris flood

SLOPE CLASS
- 1 planar
- 2 gentle
- 3 moderate
- 4 moderately steep
- 5 steep

DRAINAGE CLASS
- x very rapidly drained
- r rapidly drained
- w well drained
- m moderately well drained
- i imperfectly drained
- p poorly drained
- v very poorly drained

RELATIVE ICE CONTENT OF PERMAFROST WITHIN SURFICIAL MATERIAL
- n no permafrost
- p ice-poor
- m ice-moderate
- r ice-rich

* Refer to "Terrain Codes Definitions" cover pages for definitions of all terminology.

MAP 1B

TERRAIN - ACCESS ROAD CORRIDOR

KUDZ ZE KAYAH PROJECT

Scale 1:20,000

0.5 0 0.5 1 1.5 2

kilometres

Universal Transverse Mercator Projection Zone 9 N
North American Datum 1983

Bare earth hillshade generated from LiDAR-derived DEM provided by BMC Minerals.
Base mapping from Geomatics Yukon and Natural Resources Canada
Original Page Size 19.5" x 38" (Includes 0.5" Margins)
October 2017

Terrain mapping completed by D. Sacco and R. McKillop using softcopy photo-interpretation systems at a view (zoom) scale of 1:20,000, following field reconnaissance conducted in September 2017. Terrain codes are from the Yukon Geological Survey's adaptation of the Terrain Classification System for British Columbia (Howes and Kenk, 1997). Typical textures inferred based on observed landform associations.

Digital Cartography by B.Elder

CORE GEOSCIENCE SERVICES | PALMER ENVIRONMENTAL CONSULTING GROUP INC.

BMC MINERALS

LEGEND

- Thermokarst pond
- Kettle hole
- Active layer detachment
- Debris flow
- Esker; dir. unknown
- Esker; dir. known
- Gully
- Meltwater channel; dir. known
- Meltwater channel; dir. unknown
- Thermokarst gully/erosion

Dominant surficial material

- O Organic
- F Fluvial
- C Colluvial
- F^G Glaciofluvial
- M Morainal (till)
- R Bedrock
- Waterbody

- Mine Site Area (1:10,000 Mapping)
- Access Road Corridor (1:20,000 Mapping)
- Proposed Mine Building or Ancillary Facility
- Proposed Mine Facility Footprint
- km marker
- Proposed Road

LABEL FORMAT

Terrain component delimiter
Surficial material | Surface expression | Unique polygon identifier
Texture (increasing order of dominance) | Geomorphological process & subclass (whole polygon)

Component 1: zsdCb / sdFv - Xe 2:i-p:m Component 2

Slope class | Drainage class(es) | Permafrost relative ice content

TERRAIN CODE DEFINITIONS*

TEXTURE
- s sand
- z silt
- c clay
- d mixed fragments
- g gravel
- x angular fragments
- e fibric
- u mesic

SURFACE EXPRESSION
- a moderate slope (apron for colluvium)
- b blanket
- f fan
- h hummocky
- j gentle slope
- k moderately steep slope
- p plain
- r ridged
- s steep slope
- t terraced
- u undulating
- v veneer
- w mantle of variable thickness
- x thin veneer

GEOMORPHOLOGICAL PROCESS
- C cryoturbation
- E channeled by meltwater
- F slow mass movements
- I irregularly sinuous channels
- L surface steepage
- M meandering channels
- N nivation
- R rapid mass movements
- S solifluction
- U inundation
- V gully erosion
- X permafrost

DELIMITER AND MATERIAL SUBTYPE
- / the component in front of this symbol is more extensive than the component that follows
- // the component in front of this symbol is much more extensive than the component that follows
- \ the component in front of this symbol overlies the component that follows

GEOMORPHOLOGICAL PROCESS SUBCLASS
- i initiation zone

PERMAFROST PROCESSES
- e thermal erosion
- f thaw flow slides
- s sheetwash
- t thermokarst subsidence

MASS MOVEMENT PROCESSES
- b rockfall
- d debris flow
- g rock creep
- s debris slide
- t debris flood

SLOPE CLASS
- 1 planar
- 2 gentle
- 3 moderate
- 4 moderately steep
- 5 steep

DRAINAGE CLASS
- x very rapidly drained
- r rapidly drained
- w well drained
- m moderately well drained
- i imperfectly drained
- p poorly drained
- v very poorly drained

RELATIVE ICE CONTENT OF PERMAFROST WITHIN SURFICIAL MATERIAL
- n no permafrost
- p ice-poor
- m ice-moderate
- r ice-rich

* Refer to "Terrain Codes Definitions" cover pages for definitions of all terminology.

412000 414000 416000 418000 420000

6836000 6834000 6832000 6830000 6828000 6826000 6824000 6822000 6820000

Appendix B

Map 2 – Existing Terrain Stability and Hazards

B1. Map 2A – Mine Site Area
B2. Map 2B – Access Road Corridor

MAP 2A

EXISTING TERRAIN STABILITY AND HAZARDS - MINE SITE AREA

KUDZ ZE KAYAH PROJECT

Scale 1:10,000

0.25 0 0.25 0.5

kilometres

Universal Transverse Mercator Projection Zone 9 N
North American Datum 1983

Bare earth hillshade generated from LiDAR-derived DEM provided by BMC Minerals.

Base mapping from Geomatics Yukon and Natural Resources Canada

Original Page Size 27" x 48" (Includes 0.5" Margins)

October 2017

BMC MINERALS

Terrain stability and hazard mapping completed by D. Sacco and R. McKillop using softcopy photo-interpretation systems at a view (zoom) scale of 1:10,000, following field reconnaissance conducted in September 2017.

Digital Cartography by B.Elder

CORE GEOSCIENCE SERVICES

PALMER ENVIRONMENTAL CONSULTING GROUP INC.

LEGEND

- 123 Unique polygon ID
- Thermokarst pond
- Active layer detachment
- Debris flow
- Gully
- Thermokarst gully/erosion
- Mine Site Area (1:10,000 Mapping)
- Access Road Corridor (1:20,000 Mapping)
- Proposed Mine Building or Ancillary Facility
- Proposed Mine Facility Footprint
- km marker
- Proposed Road

EXISTING TERRAIN STABILITY CLASS

- I Stable
- II Generally stable
- III Generally stable with minor potential for instability
- IV Potentially unstable
- V Unstable

APPLICABLE HAZARD CATEGORY (OVERLAY)

- (no fill) Slope failure potential is dominant
- Thermokarst potential is dominant
- Slope failure and thermokarst potential are co-dominant

NOTES:
1. Refer to "Terrain Stability, Hazards and Risk Code Definitions" cover pages for definitions of all terminology, and refer to Terrain Map for complete terrain polygon labels (including slope class, drainage and relative ice content of permafrost).
2. Existing terrain stability class represents current (baseline) conditions.

MAP 2B

EXISTING TERRAIN STABILITY AND HAZARDS - ACCESS ROAD CORRIDOR

KUDZ ZE KAYAH PROJECT

Scale 1:20,000

0.5 0 0.5 1 1.5 2

kilometres

Universal Transverse Mercator Projection Zone 9 N
North American Datum 1983

Bare earth hillshade generated from LiDAR-derived DEM provided by BMC Minerals.
Base mapping from Geomatics Yukon and Natural Resources Canada
Original Page Size 19.5" x 38" (includes 0.5" Margins)
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Terrain stability and hazard mapping completed by D. Sacco and R. McKillop using softcopy photo-interpretation systems at a view (zoom) scale of 1:20,000, following field reconnaissance conducted in September 2017.

Digital Cartography by B.Elder

CORE GEOSCIENCE SERVICES

PALMER ENVIRONMENTAL CONSULTING GROUP INC.

BMC MINERALS

LEGEND

EXISTING TERRAIN STABILITY CLASS

- I Stable
- II Generally stable
- III Generally stable with minor potential for instability
- IV Potentially unstable
- V Unstable

APPLICABLE HAZARD CATEGORY (OVERLAY)

- (no fill) Slope failure potential is dominant
- Thermokarst potential is dominant
- Slope failure and thermokarst potential are co-dominant

- 123 Unique polygon ID
- Thermokarst pond
- Active layer detachment
- Debris flow
- Gully
- Thermokarst gully/erosion
- km marker
- Mine Site Area (1:10,000 Mapping)
- Access Road Corridor (1:20,000 Mapping)
- Proposed Mine Facility Footprint
- Proposed Road

NOTES:
1. Refer to "Terrain Stability, Hazards and Risk Code Definitions" cover pages for definitions of all terminology, and refer to Terrain Map for complete terrain polygon labels (including slope class, drainage and relative ice content of permafrost).
2. Existing terrain stability class represents current (baseline) conditions.

412000 414000 416000 418000 420000

6836000 6834000 6832000 6830000 6828000 6826000 6824000 6822000 6820000

Robert Campbell Highway

Fireweed Creek

Grum Creek

Appendix C

Map 3 – Disturbed Terrain Stability, Hazards and Risk

C1. Map 3A – Mine Site Area
C2. Map 3B – Access Road Corridor

412000 414000 416000

6822000 6820000 6818000 6816000 6814000

Finlayson Creek
Fault Creek
Camp
Lower Water Management Pond
Seepage Collection Pond
Upper Water Management Pond
Class A Storage Facility
Process Plant and Water Treatment Facility
Overburden Stockpile
Seepage Collection Pond
Mill Site
Class B Storage Facility
Seepage Collection Pond
Pit Rim Pond
Class C Storage Facility
Open Pit
Seepage Collection Pond

MAP 3A

DISTURBED TERRAIN STABILITY, HAZARDS AND RISKS - MINE SITE AREA

KUDZ ZE KAYAH PROJECT

Scale 1:10,000

0.25 0 0.25 0.5

kilometres

Universal Transverse Mercator Projection Zone 9 N
North American Datum 1983

Bare earth hillshade generated from LiDAR-derived DEM provided by BMC Minerals.

Base mapping from Geomatics Yukon and Natural Resources Canada

Original Page Size 27" x 48" (Includes 0.5" Margins)

October 2017

BMC MINERALS

Terrain stability, hazard and risk mapping completed by D. Sacco and R. McKillop using softcopy photo-interpretation systems at a view (zoom) scale of 1:10,000, following field reconnaissance conducted in September 2017.

Digital Cartography by B.Elder

CORE GEOSCIENCE SERVICES

PALMER ENVIRONMENTAL CONSULTING GROUP INC.

LEGEND

123 Unique polygon ID

Thermokarst pond

Active layer detachment

Debris flow

Gully

Thermokarst gully/erosion

km marker

Proposed Road

Mine Site Area (1:10,000 Mapping)

Access Road Corridor (1:20,000 Mapping)

EVALUATED RISK BEFORE MITIGATION

Negligible Low Moderate High Very High

TO PROPOSED MINE INFRASTRUCTURE

TO EXISTING/PROPOSED ACCESS ROAD

DISTURBED TERRAIN STABILITY CLASS

I Stable

II Generally stable

III Generally stable with minor potential for instability

IV Potentially unstable

V Unstable

COMBINATION OF INFLUENTIAL DISTURBANCE AND APPLICABLE HAZARD CATEGORY (OVERLAY)*

(no fill) "Construction-related disturbance influence" and "Slope failure potential is dominant"

Both "Construction- and climate change-related disturbance influence" and "Thermokarst potential is dominant"

Both "Construction- and climate change-related disturbance influence" and "Slope failure and thermokarst potential are co-dominant"

*Overlays distinguish whether construction, climate change or both are likely to affect terrain stability, and whether the changes are likely to be associated with an increase in the potential for slope failure, thermokarst or both. Despite consideration of all possible combinations of influential disturbances and applicable hazard categories, only the three identified above apply to this study area.

NOTES:
1. Refer to "Terrain Stability, Hazards and Risk Code Definitions" cover pages for definitions of all terminology, and refer to Terrain Map for complete terrain polygon labels (including slope class, drainage and relative ice content of permafrost).
2. Disturbed terrain stability class represents projected conditions following disturbance to ground conditions from climate change and/or from project-related facility or road construction without mitigation.
3. Risk classifications depicted for the proposed infrastructure/facility footprints reflect the highest (most conservative) risk posed by one or more hazards. Refer to accompanying report for a full breakdown of the hazard-specific risks.

MAP 3B

DISTURBED TERRAIN STABILITY, HAZARDS AND RISKS - ACCESS ROAD CORRIDOR

KUDZ ZE KAYAH PROJECT

Scale 1:20,000

0.5 0 0.5 1 1.5 2

kilometres

Universal Transverse Mercator Projection Zone 9 N
North American Datum 1983

Bare earth hillshade generated from LiDAR-derived DEM provided by BMC Minerals.

Base mapping from Geomatics Yukon and Natural Resources Canada

Original Page Size 19.5" x 38" (includes 0.5" Margins)

October 2017

Terrain stability, hazard and risk mapping completed by D. Sacco and R. McKillop using softcopy photo-interpretation systems at a view (zoom) scale of 1:20,000, following field reconnaissance conducted in September 2017.

Digital Cartography by B.Elder

CORE GEOSCIENCE SERVICES

PALMER ENVIRONMENTAL CONSULTING GROUP INC.

BMC MINERALS

LEGEND

- 123 Unique polygon ID
- Thermokarst pond
- Active layer detachment
- Debris flow
- Gully
- Thermokarst gully/erosion
- km marker
- Proposed Road
- Mine Site Area (1:10,000 Mapping)
- Access Road Corridor (1:20,000 Mapping)

EVALUATED RISK BEFORE MITIGATION

Negligible Low Moderate High Very High

TO PROPOSED MINE INFRASTRUCTURE

TO EXISTING/PROPOSED ACCESS ROAD

DISTURBED TERRAIN STABILITY CLASS

- I Stable
- II Generally stable
- III Generally stable with minor potential for instability
- IV Potentially unstable
- V Unstable

COMBINATION OF INFLUENTIAL DISTURBANCE AND APPLICABLE HAZARD CATEGORY (OVERLAY)*

(no fill) "Construction-related disturbance influence" and "Slope failure potential is dominant"

Both "Construction- and climate change-related disturbance influence" and "Thermokarst potential is dominant"

Both "Construction- and climate change-related disturbance influence" and "Slope failure and thermokarst potential are co-dominant"

*Overlays distinguish whether construction, climate change or both are likely to affect terrain stability, and whether the changes are likely to be associated with an increase in the potential for slope failure, thermokarst or both. Despite consideration of all possible combinations of influential disturbances and applicable hazard categories, only the three identified above apply to this study area.

NOTES:
1. Refer to "Terrain Stability, Hazards and Risk Code Definitions" cover pages for definitions of all terminology, and refer to Terrain Map for complete terrain polygon labels (including slope class, drainage and relative ice content of permafrost).
2. Disturbed terrain stability class represents projected conditions following disturbance to ground conditions from climate change and/or from project-related facility or road construction without mitigation.
3. Risk classifications depicted for the proposed infrastructure/facility footprints reflect the highest (most conservative) risk posed by one or more hazards. Refer to accompanying report for a full breakdown of the hazard-specific risks.

Robert Campbell Highway

Faro

Ross River

Whitehorse

Watson Lake

Fyre Lake

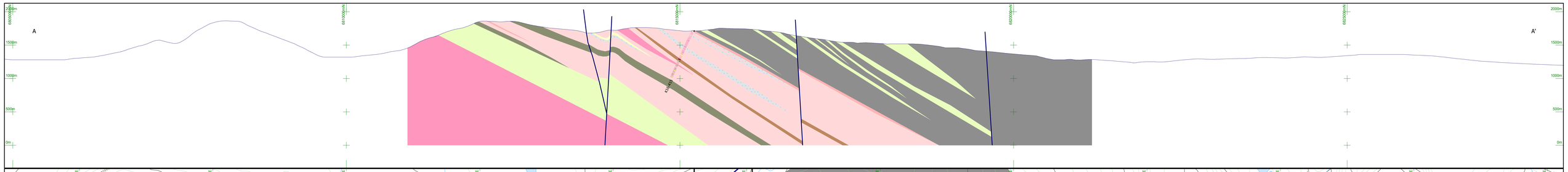
Fyre Creek

Fyre Lake Creek

Fyre Lake Creek

Fyre Lake

Appendix F: Outcrop Location Map


A
A'
2000m
1500m
1000m
500m
0m
6820000mN
6810000mN
6815000mN
6825000mN
MDU
QTZ
MAF
RHYv
MGg
MDS
SLT
CAMP
North Lakes
Legend - Interpreted Geology
OVBN: Overburden
FAULT
Grass Lakes Plutonic Suite
MGg: Grass Lakes Plutonic Suite
Wind Lake Formation
MAF: mafic volcanics
MDU: mudstone and tuffaceous mudstone
QTZ: quartzite
Kudz Ze Kayah Formation
MDSt: rhyolite tuff-dominant mudstone
MDSc: carbonaceous mudstone
MDSw: coherent rhyolite with minor carbonaceous mudstone
PEL: Pelite
Massive Sulphide
Stringer and disseminated sulphide
RHYc: undifferentiated coherent rhyolite
RHYi: aphanitic rhyolite
RHYv: undifferentiated volcaniclastic rhyolite
RHYvx: rhyolite quartz ± feldspar crystal tuff
MDS: undifferentiated mudstone
SLT: Siltstone
Fyre Lake Formation
MAF: mafic volcanic rock
Claim Outline
Fault
Tote Road
Trail
S0
S1
S2
S3
Legend - Outcrop Geology
CASN/OVBN: casing/overburden
no core
FBX: fault breccia
FLZ: fault zone
GRA: granite (Grass Lakes plutonic suite)
MAFi: mafic intrusive
MAFt: mafic volcaniclastic
MAFta: mafic volcaniclastic ash tuff
MAFw: mafic volcanic flow
MDU: mudstone and tuffaceous mudstone
MDSt: rhyolite tuff dominant mudstone
MDSc: carbonaceous mudstone
MDSw: coherent rhyolite with minor carbonaceous mudstone
MXSX: undifferentiated massive sulphide
PYX: pyroxenite
RHY: undifferentiated rhyolite
RHYc: coherent rhyolite
RHYcw: coherent rhyolite, curdy-textured and/or flow-banded
RHYcf: coherent rhyolite, feldspar ± quartz porphyry
RHYcq: coherent rhyolite, quartz porphyry
RHYi: aphanitic rhyolite
RHYif: feldspar-phyric aphanitic rhyolite
RHYv: volcaniclastic rhyolite
RHYvl: lapilli tuff
RHYva: coarse-grained to ash tuff
RHYvx: quartz ± feldspar crystal tuff
MDS: undifferentiated mudstone
SDS: sandstone
SDSc: carbonaceous sandstone
LST: limestone
SLT: siltstone
SLTc: carbonaceous siltstone
WCK: wacke
PEL: pelite
QZ
MAF
0
2000m
1 : 20000
BMC MINERALS
BMC Minerals Ltd.
KZK Project
Property Geology Map
1:20,000
Geology by: D. Baker, M. Baknes, R. Hulstein, M. Jones, M. Manor, R. Voordouw
EQUITY
Date: 27-Oct-2017
Proj: UTM 9 - NAD83
Prov: YK
Figure:

Appendix G: Field Mapping Notes

This appendix contains summaries from 2017 traverses during the Phase I and II mapping programs.

Table G-1: Traverse Summaries

Traverse Number	Summary
MBaknes2017-08-05	Wolverine Cirque, remapped the western part of the July 24 traverse and overwrote that data, archived in the MBaknes23Jul2017 folder.
MBaknes2017-07-23	West of the deposit, encountered intervals of RHYi and MAFi in contact, RHYi and MAFi. They are thin here, indicating the feathering out of the favourable elements
MBaknes2017-07-24	Wolverine Cirque, QE SDScrb and clean SDS local thin RHYcf tuffs or sills (GRApor) , up section abund seds and RHYva need to confirm may have reached Wind Lk
MBaknes2017-07-25	Wind Lk mafics crb phyllite, strong Ak alt, get to top of KZK, RHYva-QE, WCK, RHYif tuff or sills
MBaknes2017-07-26	
MBaknes2017-07-27	
MBaknes2017-07-28	Section of RHYvx and RHYcw lies between two sills or tuff horizons of RHYif, the RHYvx is pyritic and may be weakly MU altered, no clear evidence of the intrusive or tuffaceous nature of the porphyry
MBaknes2017-07-29	Bottom of RHYi section transitions into RHYva, with minor MDS and PEL, Is the Felsic section emplaced into Wind Lake ie thats why Wind Lake is on FW and HW
MBaknes2017-07-30	Down section from RHY peak, RHYi-RHYva-RHYva(crb)-MDS-Normal fault-MDS-MAFi-SED(SDS SLT SLTcrb)-Felsic section, Considered that some of RHYi textures could indicate Ignimbrite genesis, Lower felsic section is almost 200 m down section from the base of KZK
MBaknes2017-07-31	
MBaknes2017-08-01	Into intervals of RHYva MAFt,i PEL, traverse not complete, end at a very convincing fault that traces through 3 saddles
MBaknes2017-08-02	Traversed down section, through MAFt and recessive mudstones and at the bottom before hitting the GRA a conformable body of pyroxenite traceable for 1300m. Could this pyroxenite be a feeder to the MAFi footwall at ABM and\or an indicator of high temperature or structural conduit
MBaknes2017-08-03	Encountered pillowed basalt and pillow breccia within Wind Lake. Pale green chloritic schist was often marginal to the flows and probably represented more intensely altered and deformed hyaloclastite and mafic volcaniclastic. This provides evidence that mafic units within Wind Lake and the top of KZK are in fact mafic clastics. Patchy CP was noted in the Basalts. Carbonaceous sediments and clean sandstones (quartzites) are footwall to the Basalts and probably represent Wind Lake. There appears to be very little of the KZK felsic interval on this ridge. Wind lake sandstones go directly into strongly foliated feldspar porphyry (GRApor) followed by a narrow interval of tuffaceous mudstones and then GRApor for the remainder. There is little chance of outcrop further south as till appears to blanket all lower elevations.
MBaknes2017-08-04	Structurally above GP4F drilled section, mostly FD porphyry and strongly strained FD porphyry – GRApor. Many intervals of pelite, likely indicating the silling out of the Grass Lakes pluton. Good RHYi noted, which is a positive exploration criteria. The volume of GRApor sills in the hanging-wall makes me wonder about how much of the porphyry in GP4F is post mineral assuming the GRApor is post mineral (which might be incorrect).
MBaknes2017-08-05	West end of the “Wolverine” cirque, more GRApor than mapped the first time and also noted felsic tuff with distinct mudstone lapilli. Also mapped a narrow interval of RHYcw, which seems peculiar given the setting, could it be a megaclast?? The mudchip lapilli along with the preponderance of QE sandstones and carbonaceous sandstones suggest a high energy basin. Definitely get into Wind Lake so can connect with Darcy’s traverse. Continued on the south extreme of the ridge SSE of Rhyolite Peak. Noted an abundance of MAFt and also MAFi over a distance of +400 m with recessive units in between. Might this be Fire Lake stratigraphy?? A negative interp of the 200 m thick felsic section is that it

Traverse Number	Summary
	could possibly be a highly deformed GRApor and not an extrusive sequence. That would mean the interval has minimal mineralization potential.
MBaknes2017-08-06	A) South end of ridge east of Deposit valley and then north along deposit valley. Lowest part of traverse is salt and pepper felsites, confirmed to be weakly foliated, defined by BI, granite, with poorly exposed intervals of sediment. Climbing up stratigraphy, the remainder of the traverse made up of coherent rhyolite, consisting of tan coloured fine grained, granular rhyolite with rare QZ and FD phenocrysts. This unit likely a deeper and slightly more crystalline phase of RHYi. Southern end of SSE ridge off of Rhyolite Peak. Dominantly mafic rocks with some possible felsic intervals. The mafic sequence is faulted and pervaded by gossanous quartz veins. This might be part of the structural target constituting the RBI minfile occurrence 105G 126. The lowest part of the traverse encountered dark green basalt or ultramafic and one outcrop of pyroxenite similar to pyroxenites mapped on the next ridge to the west. The mafic sequence is distinct from the KZK and Wind Lake mafics and probably belongs to Fyre Lake stratigraphy, as indicated on Murphy's map.
MManor2017-08-01	First day mapping with Darcy. Traversed south to north; started in Grass Lake granite and encountered multiple sills? of biotite-carbonate-rich rock – maybe lamprophyres or pelite? Few occurrences of feldspar porphyry thought to be related to Grass Lake plutonic suite. Transitioned into sediments (sandstone and mudstone) down-dip at the end of the day.
MManor2017-08-02	Returned to traverse where left off the previous day. Began in sediments, then found a large section of feldspar porphyry dike that may be stratabound to sediments. Walked back up-ridge to find more sediments (dominantly sandstone with intercalated mudstone) and felsic volcaniclastics. Helicopter move at 2pm – top of ridge where began the previous day. Walked down south ridge; dominantly equigranular feldspar augen granites with a section of felsic volcaniclastics.
MManor2017-08-03	Traversed north to south in SE portion of property claims. The first ridge was all massive quartzite, then transitioned into felsic and mafic volcaniclastics on the first saddle. Second ridge top had large outcrop of feldspar augen porphyry (interpreted as Grass Lakes Plutonic Suite) that was strongly strained in places with elongate feldspar crystals. Down slope were more mafic tuffs and two outcrops (plus more subcrops) of massive pillow basalts. Ended the traverse with more feldspar porphyry rocks.
MManor2017-08-04	Long traverse to try finding outcrop. Began on ridge just east of ABM. Plenty of rocks on top of ridge, mainly sediments and mafic tuffs. Dropped down into valley and no outcrop until end of traverse on top of ridge directly east of camp. Mafic tuffs to end.
MManor2017-08-05	Started traverse with a lot of outcrop seen on historical maps, south to north from Repeater Mtn to camp. Many small outcrops of sediments and mafic tuffs, varying from ash to lapilli tuffs. Followed two glacial wash channels, where there was good exposure of stratigraphy, interlayering of mudstone/siltstone and mafic tuff. Ended day in valley with 25 metre-high mafic lapilli tuff outcrops and an odd occurrence of intermediate (andesite-dacite?) feldspar augen porphyry with biotite porphyroblasts; feldspar alters completely to calcite.
RHulstein2017-08-01	Traversed south to north; predominantly felsic volcaniclastics for first half of traverse to the large recessive saddle (regional fault mapped by YGS), followed by: siltstone, volcaniclastics ± qtz ± feld phenocrysts, minor pelite and feldspar porphyry.
RHulstein2017-08-02	Traversed south to north; Mostly porphyritic feldspar units (initially coded-mapped as RHYif) separated by narrower bands of PEL, MAFt and RHYv units (the MAFt is invariably found in close proximity to the PEL). The RHYif units subsequently recoded to GRA (Grass Lakes) although there is nothing homogenous or similar between the various feldspar porphyries (± minor qtz including rare 1 mm size blue qtz eyes).
RHulstein2017-08-03	Traversed west to east; outcrops consisted of genuine MDSc overlain by massive qtz veined quartzite (mapped as SDS), at approximately midway (at rock hand sample site RH17080) an outcrop of MAFw overlies a silica banded RHY unit containing traces of malachite. THIS NEEDS TO BE GEOCHEM SAMPLED. Remainder of traverse to end consists of lesser MAFw outcrops and more abundant SDS units with variable CRB and SLT.
RHulstein2017-08-04	Went from South to North: Started and stayed in Wind Lake rocks of Mafi and siltstones.
RHulstein2017-08-05	Went from South to North: started in RHYv with fairly abundant RHYi cut by meter scale qtz veins. Small patches of MDSc to north and at approximately midway a big slug of homogenous Grass Lakes porphyry followed by siltstones, RHYv and MAFi to end of traverse.

Traverse Number	Summary
RHulstein2017-08-06	First traverse on east side of property down the creek; Various types of GRA feldspar POR to end of traverse. Several Cominco outcrops not found but could be due to difficulty of finding small outcrops in thick bush. Afternoon traverse in cirque south of 6800' peak; collected pyroxenite sample, MAFt, minor thin MAFi flows and abundant micaceous thinly 'laminated' siltstone going upstream from below pyroxenite outcrop. Outcrop of GRA feldspar POR at head of cirque.
RVoordouw2017-08-02	Started in Grass Lakes Suite, followed by finely laminated sedimentary rocks (first coded as SED, then SLT) and then back into Grass Lakes. Then walked back into SED (coded as SLT) followed by RHYv at the northwestern end of the traverse. Doubled back to confirm outcrops off the side of the ridge were the same as those on top (they were) as there were some discrepancies with Cominco mapping (mostly Grass Lakes was coded as MAFi)
RHulstein2017-08-08	Traversed from highest point on LIMY claims to SE corner, up to NE and then to midpoint north of highest peak. Only grey weathering light grey fine to medium grained limestone, commonly fractured, noted, some minor calcite veining observed (10-20 cm wide and spaced 3-5+ m in south central to SE corner of the property) , no obvious bedding or S1 cleavage, crinoids noted in some samples. Collected samples D00005851 - 5862.
MManor2017-08-06	Started day mapping the tote road near weather station, and up to the weather station. Continued north past previous day's traverse end and continued back to camp. Bumped to southwest corner of property to finish off southernmost traverse in Grass Lakes pluton. More equigranular medium-coarse grained augen granite with minor fspar porphyry dikes.
MManor2017-08-08	B) Traversed from highest point on Limy claims to the west and circled back around to the south to try finding the contact of limestone and metasediments/metavolcanics. No outcrop was below 1330m contour, so no contact was determined. Continued on upper contour around base of the peak and finished in the northern part of the claims. Limestone mostly homogenous throughout area. Collected 10 samples about every 100-200 m spacing; D00005901-5910.
MManor2017-08-09	Ground truthed CSA advanced targets and fill in gaps in RHYi/RHYv units west of ABM. Checked out 3 targets north of Rhyolite peak and south of Repeater Mtn. Same traverse as RHulstein in CSA targets 007-009.
RHulstein2017-08-09	Ground truthed CSA advanced targets (KZK-007, 008 and 009) and filled in gaps - traced out RHYi units west of ABM. No outcrop or subcrop in CSA targets KZK-007 and 009, found some small scattered outcrops of SLT and one MAFt in target KZK-008.
MManor2017-08-10	Started on Rhyolite peak, worked N-NE down talus slope finding subcrops of RHYi, mapped talus distribution on slope. Sampled RHYi units down-slope for geochem/terraspec. Descended into Fault Creek valley to assess CSA early target KZK-012, mapped new RHYv+GRApor to fill in map and hope to constrain interpreted map units.
MManor2017-08-11	Dropped at bowl on top of Fault Creek. Walked up slope to find GRApor, then down the creek to fill in gaps in outcrop, but few found. Traversed NE to CSA target KZK-004, finding outcrop at margin but none inside. Collected samples for terraspec along the way and one RHYi for geochem. Finished day reassessing MAFi unit at bottom of Fault Creek, determining that it is actually intensely altered RHYv.
RHulstein2017-08-10	Started on Rhyolite peak, established minimum area of RHYi on peak, went down north slope, encountered RHYv, significant MDSc (in terms of subcrop area and carbon content) and noted start of RHYv float at lower elevation. Collected RHYi sample for whole rock analyses. Located true MAFi at end of traverse (upslope of CSA KZK-006 target).
RHulstein2017-08-11	Dropped at bowl on top of Fault Creek. Walked up slope to find GRApor, then to south and east to look for outcrop, but none found until back at ridge, on south side of Fault Creek. Traversed NE to CSA target KZK-004 examining previously mapped outcrops and locating new ones. Finished day at altered MAFt outcrop at bottom of Fault Creek near road.
MManor2017-08-12	Started day in valley on SW property claim. Mapped side of ridge for the morning, saw MAFi, MAFt, seds, and fspar porphyry. Walked S to GP3L target, found abundant GRA augen granite with siltstone and mudstone interbedded (intruded?) in central/western part but not much east in the heavy bush near old drill hole K96-171. Walked east to the creek hoping to find more outcrop but came up dry. Ended traverse by creek.
RHulstein2017-08-12	Started day in valley on SW property claim. Mapped side of ridge for morning, saw MAFi, MAFt, seds, and fspar porphyry. Walked S to GP3L target proper, found GRA-POR layered with MAFt and PEL and augen granite in central/western part; MDS and MAF below and SW of old drill hole K96-171. The later MAF unit may be a fine grained ultramafic body.

Traverse Number	Summary
MManor2017-08-13	Goal today to check off CSA advanced target KZK-002. Started at ridge and chased Wind Lake-KZK contact on top only to find frost heave(?) patches. Descended on western part of target and zig-zagged down slope. No outcrop except after noon - MAFt and RHYv/vl with some odd MAFw(?) with epidote-actinolite-garnet alteration (could this be a mafic flow top?).
MManor2017-08-14	Dropped at top of ridge and worked south along western slope of ridge. Found variety of sediments, volcaniclastics, and porphyry outcrops. Worked back north and then down slope to CSA target 001. No outcrop in target. Finished in valley.
MManor2017-08-15	Dropped at top of cirque and worked down the slope toward pond and CSA target KZK-013. Found one outcrop of MAFt and scree patches of RHYvx - close to contact? No outcrop in target. Picked up west of pond.
MManor2017-08-16	Spent the morning assessing and sampling the rocks in SW corner of property - are these related to Fire Lake Fm? Revisited ultramafic pyroxenite(?) outcrops mapped by MBaknes to collect geochemistry samples.
RHulstein2017-08-13	Goal today to check off CSA adv. target 002. Started at ridge and chased Wind Lake-KZK and GRA-POR contact on top and explored eastern side of target south and west of DDH K97-180; found frost heaves, scree and rare subcrop. Found approximate northern extent of GRA-POR and contact with KZK rocks and narrowed area where KZK – Wind Lake contact goes through.
RHulstein2017-08-14	Traversed from south end of ridge where claims abut R15 withdrawn land block to north on west facing slope above CSA KZK-001 target and then down through the target area by drill hole K98-195. Sparse float and subcrop on the ridge near the R15 block consisted of RHYvx (feldspar phyric) and RHYvl. Above the CSA target rocks consisted of GRA POR (feldspar porphyry) as previously mapped and at lower elevations sparse outcrops of RHYvx (1-2 mm feldspar phyric). No outcrop was observed while traversing through thick bush on the CSA target. Grey patches in the valley bottom noted on imagery consisted of rounded boulders of mixed lithology.
RHulstein2017-08-15	Two traverses: First one over GP4F (CSAKZK-003) target and second over CSA KZK-013 target. At the GP4F located RHY rocks below the previously mapped GRA POR and found a subcrop, possibly an outcrop of RHYvx with 5+% blue qtz eyes, a rock very similar in appearance to the Qtz eye unit found just above the mineralization in the GP4F drilling. Second traverse in the afternoon was a creek travers from east to west over the KZK-013 target. Located a couple new outcrops of Wind Lake MAFt that should help constrain the KZK – Wind Lake contact.
RHulstein2017-09-16	Two traverses: First one over GP3L target and second over the CSA KZK-012 target area on the north side of Fault Creek on the ridge west of the old Cominco camp. At the GP3L located a couple new GRA-POR outcrops and below that outcrops and float of a mafic (MAFi?) unit. Below the mafic unit there is a paucity of outcrop although some angular float of MDS was noted (at a similar elevation to a previously mapped MDS outcrop – subcrop). Second traverse in the afternoon was a in a small area just below the ridge on the east end of the CSA KZK-012 target. A 20m+ thick unit of intermittently exposed strongly musc altered RHY, cordierite altered MAF rocks and minor MDS was traced for almost 200 m. This package of rocks strikes approximately 250 degrees and dips 20 – 40 degrees north.

Appendix H: Rock Sample Descriptions

This appendix contains coordinates[1] and descriptions for all 2017 hand samples collected during the Phase I and II mapping programs. The formation (Fm.)[2] each sample is from and lithology (Lith. Code)[3] of each sample is listed.

Table H-1: Descriptions of 2017 Hand Samples

Sample ID	UTM East	UTM North	Type	Fm.	Lith. Code	Rock Description
D00005901	419809	6829891	Grab	FC	LST	Limestone
D00005902	419714	6829725	Grab	FC	LST	Massive limestone with calcite veins, crinoids?
D00005903	419788	6829669	Grab	FC	LST	Massive limestone with minor calcite veins
D00005904	420014	6829650	Grab	FC	LST	Coherent to fine grained crystalline limestone
D00005905	420100	6829815	Grab	FC	LST	Limestone with calcite veins and crinoids
D00005906	419949	6830010	Grab	FC	LST	Massive limestone
D00005907	419993	6830086	Grab	FC	LST	Limestone with calcite veins
D00005908	419965	6830165	Grab	FC	LST	Limestone with minor calcite veins and crinoids
D00005909	419840	6830187	Grab	FC	LST	Bioclastic limestone with recrystallized crinoids – marble?
D00005910	419726	6830163	Grab	FC	LST	Limestone
D00005851	419909	6829867	Grab	FC	LST	Grey weathering surface, light grey fractured limestone
D00005852	419883	6829797	Grab	FC	LST	Limestone; no obvious bedding or joints, fractured, minor limonite - Fe stain, on fractured surfaces in weakly brecciated (m scale) zone
D00005853	419887	6829682	Grab	FC	LST	Limestone; minor brecciation and coarse calcite filling, no obvious structures
D00005854	419836	6829545	Grab	FC	LST	Limestone; weakly brecciated and healed with coarse calcite and very minor Fe stained calcite
D00005855	419920	6829462	Grab	FC	LST	Minor coarse calcite veining; crinoid plates noted
D00005856	420071	6829346	Grab	FC	LST	Limestone, minor calcite veining
D00005857	420227	6829539	Grab	FC	LST	Limestone; clean looking
D00005858	420344	6829691	Grab	FC	LST	Limestone and calcite veining (<10%)
D00005859	420466	6829804	Grab	FC	LST	Limestone with minor irregular calcite veinlets and Fe color on fractures
D00005860	420384	6830032	Grab	FC	LST	Grey fine-medium grained limestone - as previous samples
D00005861	420295	6830118	Grab	FC	LST	Limestone
D00005862	420252	6830136	Grab	FC	LST	Limestone
B00267756	412075	6816320	Grab	WL	MAFt	
B00267757	412468	6813681	Float	KZK	SXSX	Baknes: 15X15 cm float cobble of massive goethite; may be boxwork after sulphide?
B00267758	420594	6816304	Grab	WL	MAFw	Pillowed basalt and pillow breccia, patchy chalcopyrite and Cu-oxides in probable pillow selvage or interstitial to fragmental basalt, minz discominz only located at this locality
D00005863	413208	6814998	Grab	KZK	RHYc, RHYi	From RHY scree patch identified by Cominco which seems correct. Fair amount of RHYi and qtz vein float. See photo DSCN2195.
D00005864	413401	6814667	Grab	KZK	RHYi	
D00005865	413618	6814759	Grab	KZK	RHYi	
D00005866	414090	6815426	Float	WL	SLT	Grey fissile calcareous quartz-feldspar-muscovite phyllite; float in scree of similar lithology; minor chlorite; weakly limonite weathering; trace disseminated pyrite
D00005867	412546	6813449	Grab	KZK	RHYi	Grab of RHYi from subcrop on Rhyolite Peak.
D00005868	412694	6814042	Float	KZK	RHYi	Finely dissemianted pyrite; RHYi float pieces less than 20 cm size on average. Pyrite-bearing RHYi usually occurs near sulphide deposits, plus carries other

Sample ID	UTM East	UTM North	Type	Fm.	Lith. Code	Rock Description
						sulphides (likely absorbed from deposits). Photo DSCN5868
D00005869	412602	6814680	Float	KZK	RHYi	Limonitic weathering foliated RHYi float in frost boils , within extensive area of same. Weakly pyritic - weathered outcrop. Photo DSCN5869.
D00005870	412377	6815033	Grab	KZK	RHYi	Looks to be a varient of RHYi- intruding RHYv? From slumped outcrop
D00005871	413870	6814846	Float	KZK	RHYi	Float from scree, approx 50% or > RHYi. Limonite weathered
D00005872	414122	6815040	Grab	KZK	RHYi	Quartz veined RHYi in contact with overlying RHYv. Photo DSCN2203
D00005873	414250	6814899	Grab	KZK	RHYi	RHYi, small subcrop on ridge crest
D00005874	414298	6814854	Grab	KZK	MAFw	Mafic feldspar porphyry
D00005876	410024	6811004	Float	FCF	FALT	Limonitic weathering calcareous fault breccia - think leakage halo
D00005877	410352	6810090	Grab	FL	MDS	Weakly limonite weathering tan and grey shale.
D00005878	414044	6814627	Float	KZK	MAFt	Mix of muscovite altered RHY, MAFt (most pyrite) and finely banded MDS. Looks like weathered equivalent of ABM horizon; subcrop
D00005911	413260	6814757	Grab	KZK	RHYvx	RHYvx with quartz eyes
D00005912	412747	6813511	Grab	KZK	RHYi	Coherent with quartz veins; large 3x3 m angular block in talus field
D00005913	412980	6813599	Grab	KZK	RHYi	
D00005914	413017	6813714	Grab	KZK	RHYi	Sericite intensity 3
D00005915	413039	6813759	Grab	KZK	RHYi	Coherent aphanitic RHYi with sericite alteration intensity 3
D00005916	413081	6813843	Grab	KZK	RHYi	Sericite alteration intensity 3
D00005917	413234	6814250	Grab	KZK	RHYi	Sericite alteration - 3
D00005918	413098	6814287	Grab	KZK	RHYi	Sericite altered 3-4
D00005919	413403	6813597	Grab	KZK	RHYi	Massive rhyolite with quartz veins
D00005920	411346	6811454	Grab	FL	PXNT	Pyroxenite with pervasive actinolite+chlorite?; may be feldspathic but too fine grained to tell; subvolcanic intrusive?
D00005921	411794	6811402	Grab	FL	PXNT	Fine grained pyroxenite? with abundant actinolite-chlorite-carbonate alteration; geochem sample
D00005922	420909	6816310	Grab	WL	MAFw	Green-light green-grey, fine to very fine grained, massive, equigranular; chlorite-epidote-actinolite-quartz (?); oxidation trace
D00005923	421486	6814822	Grab	KZK	MDS	Grey-brown-light green, very fine grained, foliated; sericite-chlorite (?)-calcite (wispy pyrite laminated)-biotite; fine grained oxidized trace pyrite; feldspar (fragmental ?/clasts)-trace limonite
D00005924	421801	6814582	Grab	GLP	GRA	Dark grey-silvery-brown, very fine grained matrix; clasts of fragmental crystals (10%); foliated; sericite-quartz-chlorite (?)-feldspar (rotated crystal or fragments, pressure shadow)-possibly fine grained biotite
D00005925	418425	6813727	Grab	GLP	GRA	Grey, fine grained matrix, biotite porphyroblasts, foliated; sericite-quartz-biotite (10%)-wispy pyrite calcite-chlorite (?)
D00005926	418425	6813727	Grab	GLP	GRA	Grey, fine grained matrix, biotite porphyroblasts, foliated; sericite-chlorite-lesser quartz-wispy pyrite, calcite
D00005927	418170	6813868	Grab	GLP	GRA	Pale orange-beige, aphanitic groundmass, age texture-gneissose; quartz (silicified ?)--lesser sericite-feldspar

Sample ID	UTM East	UTM North	Type	Fm.	Lith. Code	Rock Description
						phenocrysts-trace calcite -oxidation train (oxidized pyrite ?)-biotite trace
D00005928	416593	6814599	Grab	WL	MAFt	Grey-green, very fine grained, foliated, chlorite-sericite-calcite (foliaform)-fine grained biotite (5%)
D00005929	416146	6814300	Grab	GLP	GRA	Grey, oxidation trace, very fine grained matrix, porphyritic texture, foliated; blue rounded quartz eyes; quartz-sericite (?)-fine grained biotite-feldspar phenocryst (or fragments)-calcite in pressure shadow, fractured-rotated
D00005931	416239	6814285	Grab	GLP	GRA	Grey-moderately oxidized, very fine grained matrix, weakly foliated; quartz-limonite-sericite (?)-calcite (wispy pyrite and vienlets)-biotite (fine grained in matrix and porphyroblasts (3%))-rare rounded blue quartz eyes
D00005932	418014	6815226	Grab	WL	MAFt	Dark green-wispy pyrite calcite, fine grained matrix, foliated; chlorite-calcite (20%)-sericite (?)-lesser quartz-fine grained biotite
D00005934	414145	6817925	Grab	WL	MAFw	Dark green, fine to medium grained, equigranular-homogeneous, foliated; chlorite-calcite-fine-fine grained biotite (?); fine grained pyrrhotite disseminated along the foliation (0.5%)
D00005935	414141	6817930	Grab	WL	MAFt	Dark green-peppery biotite porphyroblasts (5%) very fine grained matrix, foliated; chlorite-pervasive calcite-biotite
D00005936	414288	6817341	Grab	WL	MAFt	Dark green, fine to medium grained, foliated; chlorite-actinolite-calcite (10%); wispy pyrite calcite, granular texture
D00005937	414542	6816765	Grab	WL	MAFt	Dark green, fine to medium grained, massive (weak fabric), granular texture; chlorite-calcite (medium grained disseminated-10%)-quartz-actinolite-possibly epidote
D00005938	414413	6818180	Grab	WL	MAFt	Dark green, fine grained matrix, foliated; chlorite-actinolite-calcite-quartz; wispy pyrite calcite-quartz
D00005939	414149	6813722	Grab	GLP	GRA	Grey-pale green, fine grained matrix, porphyritic texture, foliated; quartz-feldspar (phenocryst)-muscovite/sericite-biotite (well developed); trace fine grained pyrite, trace calcite
D00005940	414279	6813818	Grab	KZK	MAFi	Dark green, fine to medium grained, , granular texture; chlorite-actinolite-quartz-white specks (feldspar (?))-biotite (other mica?); silica flooded
D00005941	414591	6813944	Grab	GLP	GRA	Grey-pale green, very fine grained matrix, feldspar-quartz porphyries-abundant rounded blue quartz eyes; fractured phenocryst, foliated, augen texture; quartz-feldspar-biotite-sericite
D00005942	414559	6814599	Grab	KZK	MAFt	Dark green, very fine grained matrix, biotite porphyroblasts, rare rounded blue quartz eyes, foliated-decomposed; chlorite-actinolite-possibly epidote-biotite
D00005943	414686	6814642	Grab	KZK	MAFt	Green-grey, very fine grained, foliated; chlorite-actinolite-lesser biotite-trace quartz; trace disseminated pyrite
D00005944	409338	6814688	Grab	GLP	INT_F	Grey, fine to coarse grain, foliated; quartz-sericite-biotite-feldspar (?)
D00005945	410011	6810961	Grab	FL	MAFt	Dark green-grey, fine grained, foliated, weakly deformed; chlorite-silvery mica (sericite/muscovite?-possibly talc)-biotite

Sample ID	UTM East	UTM North	Type	Fm.	Lith. Code	Rock Description
D00005946	409780	6810139	Grab	GLP	GRA	Grey-beige, very coarse grained, 20% micaceous medium grained groundmass, poorly sorted-deformed, foliated, megacrystic-clastic; quartz-mica-trace calcite
D00005947	410397	6810194	Grab	FL	MAFw	Dark green-pale green, breccia, clast supported (clast up to 4 cm wide), fine grained groundmass; actinolite-chlorite-calcite-epidote; flow breccia
D00005948	411772	6812130	Grab	FL	MAFw	Dark green, fine to medium grained, foliated, heterogeneous, chlorite-actinolite-feldspar (?)-quartz=black mica (biotite?); trace pyrite
D00005951	413649	6815592	Grab	WL	MAFt	Dark green, very fine grained, thinly foliated; chlorite-actinolite-epidote-wispy pyrite calcite (5-10%)-biotite
D00005952	412424	6814361	Grab	KZK	MAFi	Ddark green, fine to medium grained, weakly foliated, granular texture,; chlorite-actinolite-calcite-lesser quartz-fine grained biotite-rare biotite porphyroblasts
D00005953	411919	6814733	Grab	GLP	GRA	Beige-pale orange, fine grained groundmass (5%) clasts o quartz-feldspar porphyry, poorly foliated,, oxidation trace; quartz (dominant)-feldspar-biotite (porphyroblasts-randomly oriented)-lesser mica; trace fine grained pyrite and trace oxidatiom (possibly pyrite)
D00005954	411797	6814756	Grab	GLP	GRA	Grey, very fine grained to aphanitic groundmass, porphyritic or clastic, foliated; quartz-feldspar (?)-biotite-mica-calcite (clots)
D00005955	412073	6816375	Grab	WL	MAFt	Green-grey-white dots, fine grained matrix/groundmass, poorly foliated; chlorite-actinolite-epidote-calcite; possibly amygdaloidal calcite infill
MB17-01	414496	6815097	Grab	KZK	RHYi	RHYi, blocky, 3% disseminated PY, massive, aphanitic
MB17-03	414346	6815230	Grab	KZK	RHYi	RHYi, >20% 0.5-2mm ovoid quartz phenos
MB17-05	414241	6814894	Grab	KZK	RHYi	RHYi, quartz porphyritic, glassy groundmass, 20% 0.5-2mm ovoid recrystalized quartz phenocrysts
MB17-13	411358	6815606	Grab	GLP	GRApor	QZ BI MU FD augen schists, border phase of feldspar porphyry? (GRApor)
MB17-17	410608	6816553	Grab	WL	SLTcrb	Carbonaceous siltstone (SLTcrb), Wind Lakes
MB17-18	413745	6814452	Grab	KZK	RHYcw	Possible RHYcw
MB17-21	413222	6813979	Grab	KZK	RHYi	Aphanitic rhyolite, RHYi
MB17-22	415448	6815262	Grab	WL	SLT	Tan, QZ MU phyllite, likely siltstone, feldspathic siltstone, reworked KZK? (SLT-WCK)
MB17-23	415424	6815251	Grab	WL	SDS	Grey resistant weakly carbonaceous quartz sandstone with adjacent grey phyllite-mudstone (SDS)
MB17-24	415407	6815201	Grab	GLP	GRA	Possible dike cutting Wind Lake mafic tuff (MAFt). Felsic medium grained equigranular with folioform biotite, likely grass lakes granite (GRA)
MB17-25	415919	6814480	Grab	WL	WCK	Contact between Wind Lake and KZK, Wacke (WCK) and feldspar porphyry (GRApor) and RHYva
MB17-26	416127	6814301	Grab	GLP	GRApor	Feldspar Porphyry, (GRApor) adjacent outcrop RHYva with quartz eyes
MB17-27	417408	6812860	Grab	KZK	RHYi	RHYi, local suspected flow banding
MB17-29	417241	6812847	Grab	KZK	RHYcw	RHYcw
MB17-31	412992	6813635	Grab	KZK	RHYi	RHYi with spherulites
MB17-32	412699	6813191	Grab	KZK	RHYi	Tan glassy RHYi, interbanded with carbonaceous units, contamination of RHY as sills encounter sediments??
MB17-33	412552	6813447	Grab	KZK	RHYi	Top of Rhyolite Peak, aphyric, aphanitic RHYi with 2% 1mm euhedral feldspar (silica replaced?) and ovoid quartz phenocrysts
MB17-45	411335	6811447	Grab	FL	PXNT	Coarse grained pyroxenite, 1-3cm sub-euhedral pyroxene phenocrysts in a schistose matrix

Sample ID	UTM East	UTM North	Type	Fm.	Lith. Code	Rock Description
MB17-46	411693	6811404	Grab	FL	RHYv	Pseudo lapilli texture, siliceous sediment with deformed quartz stringers some of which are segmented forming a pseudofragmental texture
MB17-47	411788	6811406	Grab	FL	PNXT	Pyroxenite, pyroxene-actinolite-serpentine
MB17-49	420578	6816325	Grab	WL	MAFw	Resistant outcrop, weakly foliated possible pillow basalt
MB17-51	421713	6815908	Grab	KZK	SDS	Grey translucent quartzite (SDSsil), note significant amount of associated bull quartz (romobilized silica)
MB17-52	418141	6813854	Grab	GLP	GRApor	Granite porphyry, aphanitic RHYi-like groundmass
MB17-54	410727	6816140	Grab	GLP	GRApor	Feldspar porphyry, GRApor, 5% FD megacrysts in a fine grained siliceous groundmass
MB17-56	413676	6811691	Grab	GLP	GRA	Equigranular granite intrudes MAFi
MB17-57	417218	6812448	Grab	GLP	GRAmg	Granitic felsite (GRAmg), medium grained equigranular, rare 1-5mm feldspar phenocrysts and 1-2mm grey quartz eyes
MB17-58	416098	6813252	Grab	KZK	RHYc	RHYc, fine grained sugary\granular groundmass (RHYi aphanitic) possible recrystalized (adjacent to batholith) or more deeply emplaced RHYi
MM17001	413307	6814761	Grab	KZK	RHYva	Qtz-ser schist
MM17003	413489	6814696	Grab	KZK	RHYi	
MM17004	413585	6814651	Grab	KZK	RHYvl	
MM17005	413954	6815290	Grab	WL	MDSc	Carbonaceous mudstone
MM17006	414151	6815424	Grab	WL	MDSc	Intercalated siltstone and carbonaceous mudstone
MM17007	412899	6814059	Grab	KZK	RHYv	Sericite alteration intensity 2
MM17008	414079	6814584	Grab	KZK	RHYv	Sericite altered RHYv
MM17009	414078	6814586	Grab	KZK	RHYv	Muscovite/fuchsite-altered RHYv
MM17010	414093	6814628	Grab	KZK	RHYv	Intense alteration to muscovite/sericite
MM17011	414131	6814699	Grab	KZK	MAFt	
MM17012	414128	6814698	Grab	KZK	RHYv	
MM17013	414118	6814736	Grab	KZK	MAFt	
MM17014	413106	6813586	Grab	GLP	GRApor	Quartz-feldspar porphyry on talus slope
MM17015	413724	6813685	Grab	KZK	RHYi	
MM17016	413781	6813622	Grab	KZK	RHYi	RHYi with sericite alteration; above Fault Creek
MM17017	414596	6813943	Grab	GLP	GRApor	
MM17018	414565	6814085	Grab	KZK	RHY	Fine grained feldspathic rock with sericite-ankerite-chlorite alteration
MM17019	414568	6814090	Grab	KZK	MAFt	Mafic tuff?
MM17020	414579	6814135	Grab	KZK	RHYv	
MM17021	414628	6814343	Grab	KZK	RHYvl	In cluster of RHYv outcrops at eastern margin of target
MM17022	409688	6811242	Grab	FL	MAFi	Outcrop with layer of MAFt
MM17023	409689	6811242	Grab	FL	MAFt	Bed in MAFi?
MM17024	409679	6811255	Grab	GLP	GRApor	Porphyritic dyke with 5% feldspar phenocrysts cuts other porphyritic unit with 30% feldspar phenocrysts
MM17025	409653	6811154	Grab	FL	MAFi	Feldspathic mafic intrusive with abundant chlorite (replacing pyroxine/hornblende?) and biotite porphyroblasts; local calcite veins
MM17026	416629	6814007	Grab	KZK	RHYc	RHYc? Taken from frost patch on top of ridge; all angular blocks of same rock
MM17027	418011	6815320	Grab	WL	MAFw	MAFw with epidote-actinolite-carbonate-garnet? Is this a flow top/autobreccia
MM17028	418015	6815191	Grab	KZK	RHYv	
MM17029	418022	6815307	Grab	WL	MAFt	
MM17030	421586	6814626	Grab	GLP	RHYvx	RHYvx? with <15mm feldspar phenocrysts
MM17031	421731	6814533	Grab	GLP	RHYif	Feldspar-quartz porphyry (GRApor/RHYif) OR RHYvx
MM17032	421176	6814832	Grab	KZK	RHYv	RHYv with RHYvx and RHYvl

Sample ID	UTM East	UTM North	Type	Fm.	Lith. Code	Rock Description
MM17033	421155	6814853	Grab	KZK	SLT	SLT?
MM17034	421137	6814828	Grab	KZK	RHYv	RHYvx-RHYvl? Crystal to lapilli tuff with biotite-sericite-ankerite
MM17035	421125	6814822	Grab	KZK	RHYvx	
MM17036	412074	6816374	Grab	WL	MAFt	Feldspar mafic crystal tuff (MAFt); feldspar phenocrysts weakly altered to carbonate
RH17008	413719	6813616	Grab	KZK	WCK	Biotite-feldspar schist, 3% pyrrhotite
RH17009	413727	6813623	Grab	KZK	MDS	MDS with cordierite
RH17010	414145	6813697	Grab	KZK	PEL	Pelite with bedding and feldspar crystals
RH17011	414145	6813711	Grab	GLP	RHYif	RHYif, feldspar and qaurtz phenocrysts
RH17012	414281	6813818	Grab	KZK	MAFi	
RH17013	414333	6813839	Grab	KZK	RHYvl	RHYvl, head of dip slope of slabby subcrop
RH17014	414303	6814016	Grab	GLP	RHYif	RHYif, feldspar & quartz phenocrysts
RH17015	413524	6813692	Grab	KZK	RHYi	
RH17016	413631	6813898	Grab	KZK	RHYc	
RH17018	414562	6813858	Grab	KZK	RHYi	
RH17019	414547	6813561	Grab	KZK	RHYc	
RH17022	414595	6812942	Grab	KZK	RHYvl	
RH17024	414560	6812882	Grab	KZK	PEL	
RH17025	414560	6812891	Grab	KZK	RHYva	
RH17027	410504	6812944	Grab	KZK	RHYv	
RH17028	410502	6812956	Grab	KZK	RHYc	
RH17030	410500	6812987	Grab	KZK	RHYva	
RH17031	410479	6813007	Grab	KZK	RHYv	
RH17032	410402	6813289	Grab	KZK	RHYv	
RH17033	410379	6813499	Grab	KZK	RHYv	
RH17035	410359	6813561	Grab	KZK	RHYv	
RH17036	410346	6813654	Grab	KZK	RHYc	
RH17037	410167	6813790	Grab	KZK	MDS	
RH17038	410177	6813822	Grab	KZK	RHYvq	RHYvq quartz eye tuff
RH17039	410119	6813912	Grab	KZK	SLT	
RH17040	410113	6813944	Grab	KZK	RHYv	
RH17041	410109	6813988	Grab	KZK	RHYv	
RH17042	410074	6814032	Grab	KZK	RHYv	
RH17043	410060	6814056	Grab	KZK	RHYv	
RH17044	410044	6814075	Grab	KZK	RHYvq	
RH17045	410038	6814082	Grab	KZK	RHYvl	
RH17046	410024	6814115	Grab	KZK	RHYc	
RH17047	410006	6814149	Grab	KZK	PEL	
RH17048	409974	6814186	Grab	KZK	RHYvq	
RH17049	409953	6814211	Grab	KZK	RHYva	
RH17050	409940	6814222	Grab	KZK	RHYvl	
RH17051	409905	6814253	Grab	KZK	RHYvl	
RH17052	409852	6814303	Grab	KZK	RHYvl	
RH17053	409803	6814338	Grab	KZK	RHYvl	
RH17055	409496	6814582	Grab	GLP	RHYif	
RH17056	409401	6814642	Grab	GLP	PEL	
RH17057	409336	6814695	Grab	GLP	RHYif	
RH17058	409235	6814805	Grab	GLP	RHYif	
RH17059	409220	6814818	Grab	KZK	RHYvq	059a and 059b
RH17060	409192	6814854	Grab	KZK	RHYvfq	
RH17061	409151	6814893	Grab	GLP	GRA	
RH17062	409115	6814926	Grab	GLP	GRA	

Sample ID	UTM East	UTM North	Type	Fm.	Lith. Code	Rock Description
RH17063	409086	6814956	Grab	KZK	MAFt	
RH17064	409059	6814983	Grab	KZK	RHYvl	
RH17065	409069	6814972	Grab	KZK	RHY	
RH17066	409016	6815015	Grab	KZK	RHYvl	
RH17067	409001	6815025	Grab	GLP	GRApor	
RH17068	408896	6815145	Grab	KZK	PEL	
RH17069	408783	6815220	Grab	KZK	RHYv	
RH17070	408674	6815343	Grab	GLP	GRApor	
RH17071	408648	6815408	Grab	GLP	GRApor	
RH17072	408640	6815456	Grab	GLP	GRApor	Quartz feldspar-muscovite schist with <5%, 5 mm quartz eyes.
RH17073	408599	6815499	Grab	GLP	GRA	
RH17074	408521	6815530	Grab	GLP	GRA	
RH17075	422519	6818492	Grab	WL	MDSc	
RH17076	423367	6818612	Grab	WL	SDS	Quartzite
RH17077	423382	6818489	Grab	WL	SDS	Grey quartzite
RH17078	423626	6818219	Grab	WL	MDSc	MDSc with sandstone lenses
RH17079	424426	6817603	Grab	WL	MAFi	
RH17080	424500	6817591	Grab	KZK	RHY	RHY, bleached altered mafic
RH17081	424927	6817679	Grab	WL	SDS	Tan - dark grey banded sandstone - siltstone
RH17082	425103	6817649	Grab	WL	MAFt	
RH17083	425131	6817596	Grab	WL	SLT	
RH17084	425248	6817576	Grab	WL	SLT	Dark grey siltstone
RH17085	425765	6817242	Grab	WL	MAFt	
RH17086	425944	6817165	Grab	WL	MDSc	
RH17087	426224	6817109	Grab	WL	SDS	SDS - SLT with carbonate bands
RH17088	416531	6813853	Grab	KZK	RHYv	RHYv, siliceous, fine grained granular, rare ash, lapilli
RH17089	416587	6814599	Grab	WL	MAFt	
RH17090	416912	6814732	Grab	WL	MDS	
RH17091	416873	6814683	Grab	WL	WCK	
RH17092	417017	6814775	Grab	KZK	RHYvx	RHYvx with blue quartz eyes
RH17093	417127	6814869	Grab	KZK	RHY	RHY: RHYv (rare quartz eye-feldspar) or Felsite? sill?
RH17094	418046	6814465	Grab	KZK	SLT	
RH17095	418067	6814500	Grab	KZK	SLT	
RH17096	416793	6815992	Grab	KZK	RHYw	
RH17097	416942	6816123	Grab	WL	MDSc	
RH17098	413331	6814662	Grab	KZK	RHYi	
RH17099	413207	6814692	Grab	KZK	RHY	
RH17100	413403	6814690	Grab	KZK	RHY	Muscovite - sericite altered RHY
RH17102	412762	6814975	Float	KZK	MDSc	MDSc float
RH17103	412330	6814947	Grab	KZK	SLT	SLT with carboante (or MDSc with not a lot of carbonate)
RH17104	412075	6814694	Grab	KZK	RHYvl	RHYvl - ash
RH17105	411924	6814735	Grab	GLP	GRA	GRA: Feldspar - quartz rhyolite porphyry, micaceous
RH17107	411800	6814759	Grab	GLP	GRA	
RH17108	410890	6815206	Grab	KZK	MDSt	
RH17109	410760	6815038	Grab	KZK	RHYv	Rusty muscovite phyllite
RH17110	410393	6815213	Grab	KZK	RHYvx	RHYvx (QE)
RH17111	410037	6815478	Grab	KZK	MAFt	
RH17112	417550	6814179	Grab	GLP	GRApor	
RH17113	417593	6814100	Grab	GLP	GRA	Grey finer grained well foliated GRA below coarse POR
RH17114	417629	6814055	Grab	KZK	RHYc	
RH17115	417645	6814019	Grab	KZK	PEL	

Sample ID	UTM East	UTM North	Type	Fm.	Lith. Code	Rock Description
RH17116	417695	6813581	Grab	GLP	GRA	GRA, feldspar phyric; rounded feldspar.
RH17117	411778	6812124	Grab	FL	PXNT	Pyroxinite
RH17118	411747	6812339	Grab	FL	MAFw	
RH17119	411693	6812367	Grab	FL	SLT	Finely laminate siltstone
RH17120	411287	6812153	Grab	FL	RHYvx	
RH17121	411229	6812161	Grab	GLP	GRApor	
RH17122	411062	6812548	Grab	FL	MAFt	
RH17123	411559	6815492	Grab	KZK	RHYvl	Likely collected by DBaker on July 24, 2017; Point entered by RHulstein
RH17124	411991	6815891	Grab	KZK	RHYvx	Sample likely collected by DBaker on July 24, 2017, point entered by RHulstein
RH17125	411925	6815675	Grab	KZK	RHYvl	Sample likely collected by DBaker July 24, 2017. Point entered by RHulstein
RH17126	413648	6815590	Grab	WL	MAFt	Has feldspar crystals, granular, carbonate rich
RH17127	413177	6815013	Grab	KZK	RHY	RHY; RHYi - RHYv (lapilli and ash). Patch of RHY in scree, not far from source?
RH17128	413237	6814623	Grab	KZK	RHYv	
RH17129	413457	6814713	Grab	KZK	RHYv	Banded ash? slabby stacked scree down slope of large area of RHYi subcrop
RH17130	414000	6815332	Grab	WL	SLT	Grey fissile calcareous quartz-feldspar-muscovite phyllite
RH17131	414081	6815399	Grab	WL	SLT	Grey fissile calcareous quartz-feldspar-muscovite phyllite
RH17132	414243	6815492	Float	KZK	RHYqf	Quartz-feldspar porphyry
RH17133	412456	6813791	Grab	KZK	MDSc	MDSc and Quartz vein (- Quartzite?); from small knoll of subcrop
RH17134	412423	6814355	Float	KZK	MAFi	Sample site marks first appearance of MAF unit
RH17135	412572	6814618	Float	KZK	RHYi	South side of large area of subcropping RHYi exposed in frost boils and scree
RH17136	412517	6814966	Float	KZK	RHYc	RHYc or varient of RHYi?
RH17137	413938	6815152	Grab	KZK	RHYv	Could be a RHYc or even a RHYi varient
RH17138	414298	6814875	Float	KZK	MAFt	Small (<2x5m) subcrop of MAFt
RH17139	413548	6813602	Grab	KZK	RHYcf	
RH17140	413899	6813086	Grab	KZK	RHYi	Bleached 'chalky looking' RHYi
RH17141	413572	6813526	Grab	KZK	RHYv	
RH17142	413608	6813548	Grab	KZK	RHYi	
RH17143	413626	6813548	Grab	KZK	RHYi	Bleached, not glassy aphanitic
RH17144	413672	6813582	Grab	KZK	RHYi	
RH17145	413718	6813617	Float	KZK	RHYv	Sericite-muscovite rich well foliated light green weakly pyritic quartz muscovite schist
RH17146	414300	6814060	Float	KZK	WCK	Subcrop
RH17147	414353	6814143	Grab	KZK	MAFt	Crenulated
RH17148	414389	6814158	Grab	KZK	MAFt	
RH17149	414370	6814149	Grab	KZK	RHYv	RHYv (possible ash and lapilli?): quartz muscovite schist
RH17150	414407	6814199	Float	KZK	RHYv	Subcrop
RH17151	414406	6814309	Float	KZK	RHYv	No outcrop, numerous angular quartz-feldspar-muscovite schist boulders, (1) 2 mm blue quartz eye noted.
RH17152	414632	6814342	Float	KZK	RHYv	Blocky talus boulders, sample is micaceous (4)
RH17153	414680	6814643	Grab	KZK	MAFt	Well foliated quartz-muscovite-chlorite (minor) schist, sericite altered (5) MAFt (?). MM says it is a RHYv....
RH17154	410007	6810964	Grab	FL	PEL	PEL-MAFt; oriented with structure measurement
RH17155	409999	6810984	Grab	GLP	GRApor	

Sample ID	UTM East	UTM North	Type	Fm.	Lith. Code	Rock Description
RH17156	409618	6811144	Grab	FL	MAFw	MAFw or MAFi (fine grained)
RH17156A	409781	6810137	Grab	GLP	GRApor	Feldspar-quartz augen porphyry
RH17157	410215	6810063	Grab	FL	PEL	Outcrop
RH17159	410389	6810148	Grab	FL	MAFw	MAF(w?) outcrop
RH17160	410393	6810194	Grab	FL	MAFt	MAF breccia outcrop
RH17161	416855	6814348	Float	KZK	RHYv	<1% 1 mm or less blue QE, slabby float, monolitholic, likely not too far removed from source.
RH17162	416908	6814203	Float	GLP	GRApor	Large angular slabby boulders, mostly of same rock type, likely not far from source
RH17163	417076	6814047	Float	KZK	RHYvl	15x20 m boulder field of very angular RHYvl
RH17164	417182	6813971	Float	KZK	RHYvx	Feldspar phenocrysts; angular float boulder field
RH17165	417227	6813844	Float	KZK	RHYv	Dirty RHY with 5% biotite
RH17166	418246	6814455	Float	KZK	RHYvl	looks like sample RH17165; subcrop
RH17167	418310	6814666	Grab	KZK	RHYvl	
RH17168	418259	6814942	Grab	WL	SLT	SLT - SDS - crb
RH17169	418142	6815086	Float	KZK	RHYvl	
RH17170	418167	6814678	Grab	KZK	MAFt	
RH17171	418202	6815068	Float	WL	SDS	SDS - 5+% biotite; small patch of float, SDS as not an intrusive, a MAF or a RHY....
RH17172	422374	6813548	Float	KZK	RHYvl	5% biotite
RH17173	422020	6813972	Grab	KZK	RHYvx	5% 1-2 mm feldspar phenocrysts; white quartz-feldspar-muscovite schist.
RH17174	421964	6814018	Float	GLP	GRApor	<5% 10mm feldspar phenocrysts in rhyolite that look very much like RH17173 (RHYvx).
RH17175	421008	6814771	Float	GLP	GRApor	Possible subcrop: green grey fine crystalline matrix with 15% </=15mm feld phenos
RH17176	421017	6815259	Float	KZK	RHYvx	Subcrop
RH17178	420261	6814293	Float	WL	PXNT	Magnetite ultramafic
RH17179	418731	6813359	Grab	KZK	RHYv	RHYv with biotite
RH17180	418791	6813263	Grab	KZK	RHYvx	RHYvx feldspar phenocrysts
RH17181	418868	6813193	Grab	KZK	RHYvl	RHYvl with biotite
RH17182	418895	6813141	Grab	KZK	RHYvx	RHYvx 8% 2-3 mm blue quartz eyes
RH17190	410244	6810169	Grab	GLP	GRApor	Not megacrystic feldspar variety, medium grain crystalline
RH17191	410237	6810110	Grab	FL	MAFt	MAFt and RHYv
RH17193	410828	6810209	Grab	FL	MAFt	Pyritic MAF
RH17194	414004	6814680	Grab	KZK	RHYv	
RH17195	414044	6814629	Grab	KZK	MDS	MDS and muscovite altered RHY
RH17196	414097	6814648	Float	KZK	RHY	Limonite weathering brecciated muscovite-cordierite altered RHY; subcrop patch of angular scree - likey not far from source; minor MDS.
RH17197	414113	6814655	Grab	KZK	RHY	Siliceous RHY with specks of malachite
RH17198	414113	6814668	Grab	KZK	RHY	Siliceous altered RHY with malachite
RH17199	414152	6814734	Grab	KZK	MAFt	Mineralized MAF

[1] Easting and Northing coordinates are presented in UTM Zone 9, NAD83 projection

[2] FC = Finlayson Creek Formation; FCF = Fault Creek Fault; FL = Fyre Lake Formation; GLP = Grass Lakes Plutonic Suite; KZK = Kudz Ze Kayah Formation; WL = Wind Lake Formation

[3] See table 9 of main text for rock code descriptions

Appendix I: Rock Sample Certificates of Analysis

This appendix contains all of the certificates of analysis (COA) pertaining to grab samples collected during mapping at the KZK Project during 2017. COAs are listed in alphanumeric order, with the first page of each COA indicated in the Page Number column in Table I-1 below.

Table I-1: Table of contents for COAs in this appendix

Certificate	Elements Assayed	Prospect	Analysis	Samples (#)	Page Number
VC172816	LOI, SiO_2, Al_2O_3, Fe_2O_3, MgO, CaO, K_2O, Na_2O, TiO_2, MnO, P_2O_5, Cr_2O_3, V_2O_5, Ag, Al, Ba, Ca, Cr, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, S, Sr, Ti, V, Zn, Zr, As, Be, Bi, Cd, Ce, Co, Cs, Ga, Hf, In, La, Lu, Mo, Nb, Pb, Rb, Sb, Sc, Se, Sn, Ta, Tb, Te, Th, Tl, U, W, Y, Yb	Limy	Whole Rock	22	1
VC172818	Au, Ag, Al, As, Ba, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, Sb, Sc, Sn, Sr, Th, Ti, Tl, U, V, W, Y, Zn, LOI, SiO_2, Al_2O_3, Fe_2O_3, MgO, CaO, K_2O, Na_2O, TiO_2, MnO, P_2O_5, Cr_2O_3, V_2O_5	KZK	Whole Rock	22	10
VC173046	Au, Ag, Al, As, Ba, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, Sb, Sc, Sn, Sr, Th, Ti, Tl, U, V, W, Y, Zn, LOI, SiO_2, Al_2O_3, Fe_2O_3, MgO, CaO, K_2O, Na_2O, TiO_2, MnO, P_2O_5, Cr_2O_3, V_2O_5	KZK	Whole Rock	6	18
VC173727	LOI, SiO_2, Al_2O_3, Fe_2O_3, MgO, CaO, K_2O, Na_2O, TiO_2, MnO, P_2O_5, Cr_2O_3, V_2O_5, Ag, Al, Ba, Ca, Cr, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, S, Sr, Ti, V, Zn, Zr, As, Be, Bi, Cd, Ce, Co, Cs, Ga, Hf, In, La, Lu, Mo, Nb, Pb, Rb, Sb, Sc, Se, Sn, Ta, Tb, Te, Th, Tl, U, W, Y, Yb	KZK	Whole Rock	58	26

Certificate of Analysis
Work Order : VC172816
[Report File No.: 0000024828]

Date: September 21, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01006
Project No.: KZK
Samples: 22
Received: Aug 28, 2017
Pages: Page 1 to 9
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
22	G_LOG02	Pre-preparation processing, sorting, logging, boxing
22	G_WGH79	Weighing of samples and reporting of weights
22	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
22	GO_XRF76V	Ore grade Borate fusion, XRF
22	GE_IC40A	Multi-acid (4-acid) digestion/ICP-AES finish
22	GE_IC40M	Multi-acid (4-acid) digestion/ICP-MS finish

Storage: Pulp & Reject

PULP STORAGE : STORE FOR 90 DAYS
REJECT STORAGE : STORE FOR 30 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@LOI	@SiO2	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O
Method	G_WGH79	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	-10.000	0.01	0.01	0.01	0.01	0.01	0.01
Units	kg	%	%	%	%	%	%	%
D00005851	2.495	43.2	0.67	0.21	0.12	0.46	55.4	0.05
D00005852	2.220	43.4	0.52	0.14	0.12	0.45	55.5	0.04
D00005853	2.595	43.5	0.26	0.07	0.07	0.41	55.8	0.01
D00005854	2.135	43.1	1.41	0.12	0.12	0.36	55.0	0.03
D00005855	3.090	43.0	1.63	0.10	0.05	0.42	55.3	0.02
D00005856	2.670	40.8	6.70	0.12	0.07	0.45	52.3	0.03
D00005857	2.245	43.3	0.70	0.09	0.04	0.47	55.5	0.02
D00005858	2.595	43.3	0.86	0.09	0.08	0.66	55.2	0.02
D00005859	2.685	42.8	1.75	0.29	0.13	0.47	54.8	0.05
D00005860	2.075	42.8	1.46	0.33	0.14	0.53	54.7	0.09
D00005861	2.750	43.5	0.34	0.05	0.04	0.39	55.8	<0.01
D00005862	1.920	43.4	0.55	0.06	0.06	0.36	55.6	<0.01
D00005901	2.215	43.4	0.42	0.12	0.07	0.43	55.6	0.02
D00005902	2.020	43.1	0.77	0.10	0.05	0.52	55.4	0.02
D00005903	2.320	43.0	1.20	0.10	0.08	0.40	55.3	0.02
D00005904	2.585	43.3	0.52	0.09	0.09	0.41	55.7	0.01
D00005905	2.080	43.4	0.23	0.05	0.07	0.35	55.9	<0.01
D00005906	2.635	43.2	0.13	0.05	0.06	0.40	55.9	<0.01
D00005907	2.810	43.3	1.38	0.16	0.13	3.64	51.2	0.05
D00005908	2.835	43.0	1.11	0.16	0.10	0.47	55.3	0.03
D00005909	2.595	42.6	2.48	0.25	0.12	0.45	54.8	0.06
D00005910	2.210	43.5	0.33	0.14	0.12	0.43	55.6	0.04
*Rep D00005856		40.7	6.74	0.12	0.09	0.45	52.1	0.03
*Std SX18-02		30.9	8.73	2.63	8.14	13.3	26.8	1.37
*Blk BLANK		>99.9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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Element	@Na2O	@TiO2	@MnO	@P2O5	@Cr2O3	@V2O5	Sum	@Ag
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GE_ICM40B
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0	0.02
Units	%	%	%	%	%	%	%	ppm
D00005851	<0.01	<0.01	0.02	0.10	<0.01	<0.01	100.2	0.07
D00005852	<0.01	<0.01	0.01	0.13	<0.01	<0.01	100.2	0.08
D00005853	<0.01	<0.01	0.01	0.09	<0.01	<0.01	100.2	0.09
D00005854	<0.01	<0.01	0.03	0.03	<0.01	<0.01	100.2	0.06
D00005855	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	100.6	0.06
D00005856	<0.01	<0.01	0.01	0.02	<0.01	<0.01	100.4	0.04
D00005857	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	100.2	0.09
D00005858	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	100.2	0.05
D00005859	<0.01	<0.01	0.02	0.04	<0.01	<0.01	100.3	0.03
D00005860	<0.01	<0.01	0.01	0.12	<0.01	<0.01	100.2	0.02
D00005861	<0.01	<0.01	0.02	0.04	<0.01	<0.01	100.1	0.07
D00005862	<0.01	<0.01	0.02	0.05	<0.01	<0.01	100.1	0.06
D00005901	<0.01	<0.01	0.01	0.06	<0.01	<0.01	100.2	<0.02
D00005902	<0.01	<0.01	0.03	0.07	<0.01	<0.01	100.0	0.12
D00005903	<0.01	<0.01	0.04	0.05	<0.01	<0.01	100.2	0.09
D00005904	<0.01	<0.01	0.02	0.07	<0.01	<0.01	100.2	0.05
D00005905	<0.01	<0.01	0.01	0.02	<0.01	<0.01	100.1	0.04
D00005906	<0.01	<0.01	0.02	0.15	<0.01	<0.01	100.0	0.02
D00005907	<0.01	<0.01	0.02	0.16	<0.01	<0.01	100.0	0.03
D00005908	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	100.2	0.02
D00005909	<0.01	<0.01	0.02	0.04	<0.01	<0.01	100.9	<0.02
D00005910	<0.01	<0.01	0.02	0.07	<0.01	<0.01	100.2	0.09
*Rep D00005856	<0.01	<0.01	0.01	0.02	<0.01	<0.01	100.3	
*Std SX18-02	0.11	0.22	0.82	3.90	<0.01	0.02	97.0	
*Blk BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	100.0	
*Rep D00005906								0.02
*Std OREAS907								1.21
*Blk BLANK								<0.02

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Element	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K	@Li
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	1	0.01	1	0.5	0.01	0.01	1
Units	%	ppm	%	ppm	ppm	%	%	ppm
D00005851	0.11	27	>15.0	<1	5.4	0.08	0.05	<1
D00005852	0.07	10	>15.0	<1	5.2	0.08	0.04	<1
D00005853	0.03	16	>15.0	2	3.3	0.04	0.02	<1
D00005854	0.06	30	>15.0	2	1.0	0.08	0.03	<1
D00005855	0.04	20	>15.0	4	<0.5	0.03	0.02	<1
D00005856	0.06	6	>15.0	<1	<0.5	0.04	0.03	<1
D00005857	0.04	7	>15.0	<1	0.6	0.02	0.02	<1
D00005858	0.05	12	>15.0	<1	<0.5	0.04	0.03	<1
D00005859	0.14	12	>15.0	<1	1.8	0.08	0.04	1
D00005860	0.16	23	>15.0	<1	0.6	0.09	0.09	1
D00005861	0.02	36	>15.0	3	1.3	0.02	<0.01	<1
D00005862	0.02	24	>15.0	1	0.5	0.04	0.01	<1
D00005901	0.05	12	>15.0	<1	0.7	0.04	0.03	<1
D00005902	0.06	13	>15.0	1	1.2	0.04	0.03	1
D00005903	0.05	32	>15.0	2	1.2	0.05	0.02	<1
D00005904	0.05	23	>15.0	2	2.9	0.05	0.02	<1
D00005905	0.02	14	>15.0	4	<0.5	0.04	<0.01	<1
D00005906	0.02	12	>15.0	<1	1.0	0.03	0.01	<1
D00005907	0.09	18	>15.0	<1	0.6	0.08	0.05	<1
D00005908	0.08	15	>15.0	<1	<0.5	0.06	0.04	<1
D00005909	0.12	19	>15.0	<1	1.0	0.08	0.06	1
D00005910	0.07	18	>15.0	1	1.7	0.08	0.04	<1
*Rep D00005906	0.02	11	>15.0	<1	1.2	0.03	0.01	<1
*Std OREAS907	6.53	2260	0.47	<1	6090	8.29	2.49	17
*Blk BLANK	<0.01	<1	<0.01	<1	<0.5	<0.01	<0.01	<1

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Element	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	0.01	0.5	0.005	0.01	0.5	0.01
Units	%	ppm	%	ppm	%	%	ppm	%
D00005851	0.23	121	0.01	4.8	0.045	<0.01	207	<0.01
D00005852	0.24	69	0.01	3.6	0.051	<0.01	171	<0.01
D00005853	0.21	88	0.01	1.1	0.044	<0.01	196	<0.01
D00005854	0.18	175	<0.01	2.9	0.015	<0.01	263	<0.01
D00005855	0.21	54	<0.01	0.6	0.014	<0.01	236	<0.01
D00005856	0.24	69	0.01	0.9	0.014	<0.01	200	<0.01
D00005857	0.25	53	<0.01	<0.5	0.014	<0.01	207	<0.01
D00005858	0.37	44	0.01	<0.5	<0.005	<0.01	233	<0.01
D00005859	0.25	116	0.01	3.0	0.023	<0.01	173	<0.01
D00005860	0.29	77	<0.01	3.7	0.057	<0.01	184	<0.01
D00005861	0.19	138	<0.01	1.5	0.029	<0.01	131	<0.01
D00005862	0.18	142	<0.01	2.3	0.024	<0.01	178	<0.01
D00005901	0.22	96	0.01	0.7	0.023	<0.01	182	<0.01
D00005902	0.27	234	0.01	2.2	0.035	<0.01	375	<0.01
D00005903	0.21	300	<0.01	1.5	0.023	<0.01	252	<0.01
D00005904	0.21	127	0.01	1.4	0.031	<0.01	239	<0.01
D00005905	0.17	67	<0.01	0.7	0.014	<0.01	200	<0.01
D00005906	0.21	106	<0.01	3.7	0.064	<0.01	112	<0.01
D00005907	2.17	142	0.01	4.2	0.069	<0.01	150	<0.01
D00005908	0.24	75	<0.01	1.5	0.021	<0.01	224	<0.01
D00005909	0.24	137	<0.01	1.9	0.017	<0.01	182	<0.01
D00005910	0.22	168	0.01	1.3	0.028	<0.01	193	<0.01
*Rep D00005906	0.21	105	<0.01	3.6	0.072	<0.01	110	<0.01
*Std OREAS907	0.42	349	2.14	4.3	0.033	0.08	138	0.11
*Blk BLANK	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5	<0.01

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Element	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd	@Ce
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	2	1	0.5	1	0.1	0.04	0.02	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00005851	9	14	3.7	<1	<0.1	<0.04	2.13	1.01
D00005852	10	15	3.3	2	<0.1	<0.04	2.24	1.21
D00005853	8	16	4.0	1	<0.1	<0.04	1.96	0.89
D00005854	8	18	2.7	1	<0.1	<0.04	1.29	0.99
D00005855	7	10	2.3	2	<0.1	<0.04	0.89	0.84
D00005856	7	10	2.4	<1	<0.1	<0.04	0.98	0.81
D00005857	6	8	1.9	<1	<0.1	<0.04	0.91	0.94
D00005858	8	8	1.2	2	<0.1	<0.04	0.80	0.88
D00005859	9	26	2.2	<1	<0.1	<0.04	0.85	1.76
D00005860	7	14	3.4	3	<0.1	<0.04	2.63	1.16
D00005861	8	13	1.0	<1	<0.1	<0.04	1.93	1.89
D00005862	7	12	1.1	<1	<0.1	<0.04	2.30	1.07
D00005901	8	16	2.0	<1	<0.1	<0.04	1.91	0.80
D00005902	12	11	2.3	<1	<0.1	<0.04	0.81	0.49
D00005903	8	14	4.7	1	<0.1	<0.04	1.52	0.42
D00005904	8	10	3.4	<1	<0.1	<0.04	1.91	0.58
D00005905	6	12	1.0	<1	<0.1	<0.04	0.89	0.52
D00005906	6	12	2.2	1	<0.1	<0.04	3.65	1.18
D00005907	7	27	1.8	<1	<0.1	0.04	2.22	1.62
D00005908	7	14	1.3	2	<0.1	<0.04	1.89	0.63
D00005909	5	15	2.4	<1	<0.1	<0.04	0.97	2.12
D00005910	6	15	1.8	<1	<0.1	<0.04	1.50	1.17
*Rep D00005906	6	13	2.1	<1	<0.1	<0.04	3.60	1.27
*Std OREAS907	10	216	253	37	2.2	21.7	0.50	83.3
*Blk BLANK	<2	<1	<0.5	<1	<0.1	<0.04	<0.02	<0.05

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Element	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu	@Mo
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	1	0.1	0.02	0.02	0.1	0.01	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00005851	1.9	<1	0.2	0.05	<0.02	3.3	0.09	<0.05
D00005852	1.3	<1	0.2	0.04	<0.02	2.7	0.07	0.05
D00005853	1.3	<1	<0.1	0.03	<0.02	2.6	0.06	<0.05
D00005854	0.9	<1	0.1	0.03	<0.02	1.7	0.06	0.12
D00005855	0.9	<1	<0.1	0.03	<0.02	2.7	0.05	<0.05
D00005856	0.7	<1	0.1	0.03	<0.02	1.6	0.05	0.08
D00005857	0.7	<1	<0.1	<0.02	<0.02	3.1	0.04	0.09
D00005858	0.8	<1	<0.1	<0.02	<0.02	2.3	0.05	0.09
D00005859	1.0	<1	0.2	0.06	<0.02	4.1	0.09	0.05
D00005860	1.5	<1	0.3	0.07	<0.02	3.4	0.09	0.48
D00005861	1.3	<1	<0.1	<0.02	<0.02	3.8	0.08	0.18
D00005862	1.3	<1	<0.1	<0.02	<0.02	2.7	0.06	0.09
D00005901	1.1	<1	0.1	0.03	<0.02	3.3	0.07	<0.05
D00005902	1.2	<1	<0.1	<0.02	<0.02	1.2	0.05	0.06
D00005903	0.9	<1	<0.1	0.05	<0.02	1.2	0.01	0.07
D00005904	1.4	<1	0.1	0.03	<0.02	2.7	0.08	<0.05
D00005905	0.9	<1	<0.1	<0.02	<0.02	1.8	0.05	0.05
D00005906	2.1	<1	<0.1	0.02	<0.02	5.1	0.06	0.09
D00005907	3.4	<1	0.2	0.04	<0.02	4.6	0.11	<0.05
D00005908	1.4	<1	0.2	<0.02	<0.02	1.1	0.03	0.27
D00005909	1.5	<1	0.3	0.06	<0.02	5.2	0.08	0.16
D00005910	1.6	<1	0.2	<0.02	<0.02	2.8	0.06	0.08
*Rep D00005906	2.2	<1	<0.1	0.03	<0.02	5.0	0.07	0.12
*Std OREAS907	42.7	6	31.6	6.89	2.58	41.3	0.14	5.75
*Blk BLANK	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01	<0.05

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Element	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn	@Ta
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	0.5	0.2	0.05	0.5	2	0.3	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00005851	0.2	1.1	1.8	0.33	0.5	<2	<0.3	<0.05
D00005852	0.1	0.7	1.3	0.18	<0.5	<2	<0.3	<0.05
D00005853	<0.1	1.0	0.6	0.34	<0.5	<2	<0.3	<0.05
D00005854	<0.1	1.0	1.1	0.29	<0.5	<2	<0.3	<0.05
D00005855	<0.1	0.8	0.7	0.14	<0.5	<2	<0.3	<0.05
D00005856	<0.1	1.2	1.1	0.15	<0.5	<2	<0.3	<0.05
D00005857	<0.1	0.6	0.5	0.11	<0.5	<2	<0.3	<0.05
D00005858	<0.1	0.9	0.7	0.15	<0.5	<2	<0.3	<0.05
D00005859	0.1	1.2	1.8	0.12	<0.5	<2	<0.3	<0.05
D00005860	0.2	0.8	3.4	0.14	0.6	<2	<0.3	<0.05
D00005861	<0.1	1.1	0.3	0.13	<0.5	<2	<0.3	<0.05
D00005862	<0.1	1.4	0.5	0.20	<0.5	<2	<0.3	<0.05
D00005901	<0.1	0.9	1.1	0.55	0.6	<2	<0.3	<0.05
D00005902	<0.1	1.2	0.7	0.36	<0.5	<2	<0.3	<0.05
D00005903	<0.1	0.7	0.7	0.24	<0.5	<2	<0.3	<0.05
D00005904	<0.1	0.9	0.8	0.16	<0.5	<2	<0.3	<0.05
D00005905	<0.1	1.2	0.2	0.10	<0.5	<2	<0.3	<0.05
D00005906	<0.1	0.9	0.3	0.15	<0.5	<2	<0.3	<0.05
D00005907	0.1	2.5	2.0	0.36	0.7	<2	<0.3	<0.05
D00005908	<0.1	1.4	1.6	0.14	<0.5	<2	<0.3	<0.05
D00005909	0.2	1.7	3.3	6.75	0.7	<2	1.0	<0.05
D00005910	0.1	1.2	1.5	0.12	0.5	<2	<0.3	<0.05
*Rep D00005906	<0.1	1.5	0.3	0.12	0.5	<2	<0.3	<0.05
*Std OREAS907	15.9	45.6	119	3.55	4.2	10	5.3	1.28
*Blk BLANK	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3	<0.05

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Element	@Tb	@Te	@Th	@Tl	@U	@W	@Y	@Yb
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.2	0.02	0.05	0.1	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00005851	0.11	<0.05	<0.2	0.07	0.14	0.6	10.2	0.5
D00005852	0.08	<0.05	<0.2	0.07	0.13	<0.1	7.7	0.4
D00005853	0.06	<0.05	<0.2	0.04	0.20	<0.1	6.7	0.3
D00005854	<0.05	<0.05	<0.2	0.02	2.90	0.2	8.3	0.4
D00005855	0.08	<0.05	<0.2	<0.02	0.47	<0.1	7.0	0.3
D00005856	0.05	<0.05	<0.2	0.02	2.63	<0.1	5.7	0.3
D00005857	0.08	<0.05	<0.2	<0.02	0.51	<0.1	7.2	0.3
D00005858	0.06	<0.05	<0.2	<0.02	0.91	<0.1	5.4	0.2
D00005859	0.11	<0.05	<0.2	0.04	0.56	<0.1	11.6	0.5
D00005860	0.10	<0.05	<0.2	0.17	0.31	0.1	10.8	0.6
D00005861	0.14	<0.05	<0.2	0.04	0.27	<0.1	11.9	0.5
D00005862	0.08	0.05	<0.2	0.06	0.17	<0.1	6.8	0.3
D00005901	0.09	<0.05	<0.2	0.05	0.09	0.1	7.2	0.4
D00005902	0.05	<0.05	<0.2	0.02	2.19	<0.1	6.2	0.3
D00005903	<0.05	<0.05	<0.2	0.02	2.22	<0.1	3.1	0.1
D00005904	0.07	<0.05	<0.2	0.07	0.17	<0.1	8.4	0.5
D00005905	0.05	<0.05	<0.2	<0.02	0.39	<0.1	6.8	0.3
D00005906	0.13	<0.05	<0.2	0.05	0.14	<0.1	7.7	0.5
D00005907	0.15	0.10	<0.2	0.05	0.14	<0.1	13.5	0.7
D00005908	<0.05	<0.05	<0.2	0.07	0.13	<0.1	3.3	0.2
D00005909	0.15	0.12	0.2	0.03	0.13	1.3	9.1	0.5
D00005910	0.07	<0.05	<0.2	0.06	0.12	<0.1	6.7	0.4
*Rep D00005906	0.13	<0.05	<0.2	0.06	0.15	<0.1	7.8	0.4
*Std OREAS907	0.83	0.29	13.1	0.65	4.50	3.5	14.8	0.8
*Blk BLANK	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1	<0.1

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Certificate of Analysis
Work Order : VC172818
[Report File No.: 0000024919]

Date: September 26, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

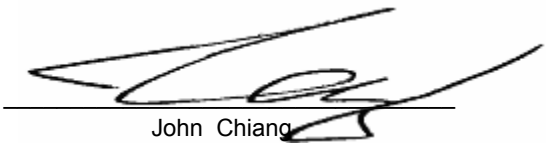
P.O. No.: PO# BMC17-01014
Project No.: KZK
Samples: 22
Received: Aug 28, 2017
Pages: Page 1 to 8
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
22	G_LOG02	Pre-preparation processing, sorting, logging, boxing
22	G_WGH79	Weighing of samples and reporting of weights
22	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
22	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
22	GE_IMS14B	Aqua Regia digestion/ICP-MS package
22	GO_XRF76V	Ore grade Borate fusion, XRF

Storage: Pulp & Reject

PULP STORAGE : STORE FOR 90 DAYS
REJECT STORAGE : STORE FOR 30 DAYS

Certified By : 
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00005863	1.425	<5	0.24	0.18	6	86	0.25	0.33
D00005864	2.285	<5	0.12	0.14	4	122	0.17	0.28
D00005865	2.615	10	1.47	0.14	18	121	0.19	0.36
D00005867	2.110	<5	0.11	0.16	3	94	0.10	0.01
D00005869	1.865	<5	0.26	0.17	10	985	0.16	<0.01
D00005870	1.765	<5	0.11	0.20	<1	72	0.11	0.01
D00005871	2.230	<5	0.17	0.14	11	167	0.23	0.03
D00005872	2.095	8	0.34	0.12	8	100	0.20	<0.01
D00005873	1.945	<5	0.28	0.51	3	>10000	0.65	0.02
D00005874	2.670	<5	0.48	0.69	<1	422	1.34	1.31
D00005911	2.145	<5	0.07	0.16	<1	65	0.20	0.43
D00005912	1.985	<5	0.33	0.21	3	96	0.24	0.03
D00005913	2.150	<5	0.14	0.22	3	58	0.31	0.04
D00005914	1.915	<5	0.04	0.23	1	109	0.08	0.04
D00005915	2.480	<5	0.09	0.20	<1	61	0.15	0.30
D00005916	2.425	<5	0.10	0.24	<1	66	0.18	0.07
D00005917	2.825	<5	0.09	0.19	3	134	1.43	0.03
D00005918	1.985	<5	0.06	0.20	7	397	0.17	<0.01
D00005919	2.105	<5	0.07	0.25	<1	37	0.79	0.27
D00005920	2.515	<5	<0.01	0.87	5	17	0.12	2.11
D00005921	2.875	<5	<0.01	0.85	13	260	0.08	4.28
B00267756	1.350	<5	0.02	4.38	14	23	<0.02	3.47
*Rep B00267756			<0.01	4.15	15	23	<0.02	3.50
*Blk BLANK			<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00005874		<5						
*Std OXN117		7620						
*Blk BLANK		<5						
*Std OREAS209			0.25	1.12	1080	68	0.06	1.40

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00005863	0.09	10.4	0.4	9	1.0	0.62	0.7	0.02
D00005864	0.02	40.8	0.2	8	1.6	0.71	1.1	0.02
D00005865	0.04	30.2	0.6	9	2.4	0.78	0.8	0.05
D00005867	0.05	73.3	0.2	11	1.7	0.53	1.3	<0.01
D00005869	0.03	70.1	0.2	8	1.6	0.69	1.4	0.02
D00005870	0.69	75.5	0.5	9	2.8	0.92	1.5	0.01
D00005871	0.03	55.8	0.4	18	1.4	0.70	1.0	0.02
D00005872	0.02	65.1	0.1	11	1.9	0.62	0.9	0.05
D00005873	0.06	16.0	0.4	12	5.9	0.75	1.5	0.63
D00005874	2.96	232	2.7	5	5.3	1.95	3.9	0.02
D00005911	0.26	93.4	1.0	7	2.0	0.41	1.6	0.01
D00005912	0.24	73.4	0.7	9	1.9	0.44	1.6	0.04
D00005913	0.38	71.7	0.5	11	1.7	0.41	1.4	0.15
D00005914	0.33	74.7	0.7	9	2.1	0.45	1.5	0.03
D00005915	0.91	87.4	1.1	9	2.4	0.37	1.6	0.02
D00005916	0.59	85.1	1.2	9	3.5	0.39	1.9	0.02
D00005917	0.05	107	0.4	16	1.4	0.66	1.8	0.01
D00005918	0.03	67.5	0.2	14	1.1	0.78	1.4	0.01
D00005919	0.18	75.6	0.7	9	3.6	0.43	1.5	<0.01
D00005920	0.13	14.9	5.9	46	5.6	1.02	2.9	0.01
D00005921	0.10	35.1	10.5	49	6.7	1.20	2.8	0.01
B00267756	0.13	37.2	30.0	117	8.6	8.21	18.8	<0.01
*Rep B00267756	0.12	37.4	28.9	117	9.3	8.30	19.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Std OREAS209	0.07	26.8	30.2	40	77.0	5.93	3.6	0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00005863	0.23	5.1	0.01	48	2.37	0.02	1.6	120
D00005864	0.20	18.3	<0.01	37	2.26	0.03	1.2	70
D00005865	0.20	15.0	<0.01	47	3.12	0.03	2.6	80
D00005867	0.18	35.8	<0.01	40	1.74	0.03	1.5	150
D00005869	0.20	34.9	<0.01	36	2.33	0.02	1.2	<50
D00005870	0.23	37.7	<0.01	237	1.27	0.03	2.0	90
D00005871	0.21	24.6	<0.01	45	3.69	0.02	2.0	<50
D00005872	0.20	32.0	<0.01	38	3.47	0.02	1.1	60
D00005873	0.28	9.1	<0.01	50	2.56	0.03	2.0	90
D00005874	0.23	87.6	0.33	1180	2.27	0.05	4.7	830
D00005911	0.15	45.7	<0.01	140	0.71	0.04	2.5	140
D00005912	0.21	27.6	<0.01	44	1.29	0.03	2.1	150
D00005913	0.20	33.1	<0.01	45	1.39	0.03	2.5	130
D00005914	0.19	35.2	<0.01	56	1.08	0.04	2.3	170
D00005915	0.18	42.2	<0.01	168	0.90	0.03	4.7	150
D00005916	0.24	41.2	0.01	63	1.10	0.03	3.9	150
D00005917	0.24	54.9	<0.01	87	10.7	0.03	1.7	120
D00005918	0.25	31.6	<0.01	57	3.11	0.03	1.5	130
D00005919	0.17	35.3	0.01	93	1.00	0.02	1.6	60
D00005920	<0.01	4.3	0.35	251	0.40	0.03	12.4	1240
D00005921	0.10	21.7	0.35	560	0.62	0.02	25.9	1970
B00267756	0.07	17.4	3.13	1130	1.15	0.04	35.0	1770
*Rep B00267756	0.07	17.3	3.00	1120	1.24	0.04	33.2	1660
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Std OREAS209	0.07	13.9	2.44	1380	2.03	0.16	119	1630

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00005863	6.4	6.7	0.15	0.5	0.3	4.9	8.3	<0.01
D00005864	5.8	5.5	0.44	0.4	0.6	4.4	10.5	<0.01
D00005865	42.8	5.2	2.72	0.4	<0.3	4.6	13.0	<0.01
D00005867	9.5	6.6	0.24	0.4	<0.3	2.6	19.6	<0.01
D00005869	42.7	8.6	0.26	0.3	0.4	2.6	13.8	<0.01
D00005870	46.7	12.6	0.10	0.5	0.4	1.3	19.1	<0.01
D00005871	4.1	6.7	0.44	0.4	<0.3	4.5	7.2	<0.01
D00005872	44.8	5.0	0.79	0.3	<0.3	4.0	10.9	<0.01
D00005873	11.1	5.9	0.34	0.5	<0.3	11.6	9.9	<0.01
D00005874	45.2	10.3	0.06	1.7	<0.3	19.4	24.3	<0.01
D00005911	2.6	4.2	0.09	0.5	<0.3	10.5	17.3	<0.01
D00005912	5.2	7.8	0.97	0.5	<0.3	2.7	17.8	<0.01
D00005913	3.1	7.2	0.14	0.4	<0.3	2.2	16.6	<0.01
D00005914	2.9	8.0	0.30	0.4	<0.3	3.3	17.2	<0.01
D00005915	4.4	7.2	0.13	0.4	<0.3	6.0	16.8	<0.01
D00005916	1.9	11.0	0.21	0.4	<0.3	2.7	17.7	<0.01
D00005917	3.3	9.0	0.34	0.6	0.8	3.2	15.7	<0.01
D00005918	3.4	8.3	0.10	0.5	<0.3	7.4	17.1	<0.01
D00005919	4.1	4.7	<0.05	0.3	0.4	5.2	19.4	<0.01
D00005920	3.1	0.5	0.12	3.6	0.7	118	1.9	0.48
D00005921	3.5	4.2	0.06	3.7	0.7	139	1.1	0.51
B00267756	4.0	5.6	<0.05	28.0	0.6	136	3.1	0.36
*Rep B00267756	3.8	5.6	<0.05	26.4	0.6	125	3.1	0.37
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Std OREAS209	3.2	3.8	1.07	3.7	0.8	58.1	2.3	0.15

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Element	Tl	U	V	W	Y	Zn	@LOI	@SiO2
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GO_XRF76V	GO_XRF76V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	-10.000	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%
D00005863	0.12	2.01	<1	0.5	6.61	8	0.910	75.2
D00005864	0.04	1.20	<1	0.5	3.61	4	1.11	75.9
D00005865	0.19	1.30	<1	0.7	4.88	7	1.08	74.7
D00005867	0.09	4.04	<1	0.7	10.0	7	0.220	77.1
D00005869	0.05	0.85	<1	0.3	3.62	10	0.650	78.1
D00005870	0.07	2.97	<1	0.1	3.92	207	0.800	76.3
D00005871	0.06	0.98	<1	4.3	3.12	6	0.570	77.5
D00005872	0.12	1.04	<1	0.3	3.31	13	0.230	77.2
D00005873	0.10	0.67	<1	0.2	1.98	45	0.400	77.7
D00005874	0.07	1.26	2	0.2	18.1	264	3.52	67.9
D00005911	0.06	2.48	<1	0.2	13.2	14	0.720	77.5
D00005912	0.04	2.84	<1	0.3	10.4	368	0.390	75.9
D00005913	0.04	1.83	<1	0.6	8.87	680	0.350	77.3
D00005914	0.04	1.37	<1	0.2	7.75	90	0.450	76.6
D00005915	0.04	1.39	<1	0.1	9.75	263	1.08	75.0
D00005916	0.05	1.56	<1	1.1	7.36	303	0.570	75.9
D00005917	0.09	4.32	<1	1.1	5.78	17	0.350	76.9
D00005918	0.05	1.67	1	0.1	3.45	5	0.730	75.3
D00005919	0.04	4.07	<1	0.3	14.7	27	1.16	79.7
D00005920	<0.02	0.51	34	0.4	7.62	23	2.49	45.0
D00005921	0.02	0.75	42	0.4	6.27	26	4.85	40.9
B00267756	0.05	0.19	261	<0.1	14.7	143	6.78	48.5
*Rep B00267756	0.05	0.20	250	<0.1	15.1	137		
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1		
*Rep D00005921							4.83	40.6
*Std RM183-89							0.750	41.8
*Blk BLANK							N.A.	<0.01
*Std OREAS209	0.03	0.45	43	0.4	13.1	80		

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Element	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O	@Na2O	@TiO2	@MnO
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Units	%	%	%	%	%	%	%	%
D00005863	12.1	1.16	0.15	0.51	8.96	0.61	0.27	0.01
D00005864	11.4	1.14	0.02	0.42	7.81	1.43	0.27	<0.01
D00005865	11.5	1.23	0.07	0.53	8.19	1.28	0.27	<0.01
D00005867	12.0	0.91	0.04	0.03	7.99	1.58	0.29	<0.01
D00005869	11.2	1.29	0.05	<0.01	7.93	0.55	0.18	<0.01
D00005870	11.3	1.67	0.08	0.02	7.36	1.37	0.19	0.03
D00005871	11.1	1.09	0.06	0.04	9.15	0.29	0.28	<0.01
D00005872	11.0	0.92	0.05	<0.01	9.26	0.27	0.26	0.01
D00005873	9.61	1.18	0.05	0.03	5.91	0.35	0.22	0.01
D00005874	14.6	4.11	1.10	1.98	2.98	3.28	0.58	0.15
D00005911	11.5	0.76	0.06	0.65	5.76	2.67	0.28	0.02
D00005912	12.3	0.80	0.03	0.05	8.15	1.38	0.29	<0.01
D00005913	11.9	0.72	0.03	0.06	8.17	1.18	0.29	<0.01
D00005914	12.3	0.77	0.04	0.06	7.79	1.65	0.30	0.01
D00005915	12.2	0.75	0.05	0.46	7.95	1.46	0.29	0.03
D00005916	12.8	0.85	0.05	0.11	8.08	1.46	0.31	<0.01
D00005917	11.4	1.20	0.06	0.06	8.20	1.05	0.27	0.01
D00005918	12.3	1.39	0.02	0.01	8.19	1.32	0.28	0.01
D00005919	10.6	0.80	0.10	0.41	6.63	0.30	0.14	0.01
D00005920	14.2	10.5	6.44	18.2	0.09	0.70	2.32	0.20
D00005921	12.7	10.8	5.71	21.1	0.26	0.39	3.11	0.23
B00267756	13.9	12.7	5.36	6.20	0.11	3.36	2.62	0.16
*Rep D00005921	12.6	10.8	5.70	21.0	0.26	0.40	3.11	0.23
*Std RM183-89	1.68	49.7	0.06	0.02	0.37	<0.01	0.06	0.07
*Blk BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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Final : VC172818 Order: PO# BMC17-01014

Report File No.: 0000024919

Element	@P2O5	@Cr2O3	@V2O5	Sum
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	0.01	0.01	0
Units	%	%	%	%
D00005863	0.03	<0.01	<0.01	100.0
D00005864	0.02	<0.01	<0.01	99.6
D00005865	0.02	<0.01	<0.01	98.9
D00005867	0.04	0.01	<0.01	100.3
D00005869	0.01	<0.01	<0.01	99.9
D00005870	0.03	<0.01	<0.01	99.1
D00005871	0.02	0.01	<0.01	100.1
D00005872	0.02	<0.01	<0.01	99.3
D00005873	0.03	<0.01	<0.01	95.5
D00005874	0.19	<0.01	<0.01	100.4
D00005911	0.04	<0.01	<0.01	100.0
D00005912	0.04	<0.01	<0.01	99.3
D00005913	0.04	<0.01	<0.01	100.0
D00005914	0.04	<0.01	<0.01	100.0
D00005915	0.03	<0.01	<0.01	99.3
D00005916	0.04	<0.01	<0.01	100.3
D00005917	0.03	<0.01	<0.01	99.5
D00005918	0.03	0.01	<0.01	99.6
D00005919	0.02	<0.01	<0.01	99.9
D00005920	0.30	0.05	0.05	100.6
D00005921	0.49	0.05	0.06	100.6
B00267756	0.40	0.02	0.06	100.2
*Rep D00005921	0.47	0.05	0.05	100.2
*Std RM183-89	0.04	<0.01	<0.01	94.6
*Blk BLANK	<0.01	<0.01	<0.01	N.A.

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Certificate of Analysis
Work Order : VC173046
[Report File No.: 0000025434]

Date: October 20, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01013
Project No.: KZK
Samples: 6
Received: Aug 28, 2017
Pages: Page 1 to 8
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
6	G_LOG02	Pre-preparation processing, sorting, logging, boxing
6	G_WGH79	Weighing of samples and reporting of weights
6	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
6	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
6	GE_IMS14B	Aqua Regia digestion/ICP-MS package
6	GO_XRF76V	Ore grade Borate fusion, XRF

Storage: Pulp & Reject

PULP STORAGE	:	STORE FOR 90 DAYS
REJECT STORAGE	:	STORE FOR 30 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00005866	1.715	<5	0.50	4.12	10	82	0.29	0.51
D00005868	1.525	9	0.63	1.18	47	266	0.37	<0.01
D00005876	1.295	<5	0.06	0.22	<1	126	0.12	>15.0
D00005877	1.660	7	0.31	0.86	11	488	0.27	0.64
D00005878	1.455	142	>10.0	0.28	349	155	62.3	0.35
B00267757	0.545	48	>10.0	0.46	196	123	0.56	<0.01
*Rep D00005868		7						
*Blk BLANK		<5						
*Rep B00267757			>10.0	0.48	203	127	0.58	<0.01
*Std OREAS209			0.24	1.11	960	65	0.06	1.43
*Blk BLANK			<0.01	<0.01	<1	<5	<0.02	<0.01
*Std OREAS151B		70						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00005866	45.3	53.1	58.4	2	279	9.36	12.3	0.02
D00005868	0.09	26.1	1.8	10	11.1	3.78	4.7	0.02
D00005876	0.04	46.9	6.2	2	6.3	7.78	0.8	<0.01
D00005877	0.17	27.9	1.6	68	54.5	3.79	4.6	<0.01
D00005878	52.1	18.1	13.2	10	5030	5.47	1.1	0.47
B00267757	2.99	31.3	6.7	15	306	>15.0	2.3	32.3
*Rep B00267757	3.20	32.6	7.0	15	316	>15.0	2.3	33.1
*Std OREAS209	0.07	25.5	27.3	34	76.3	6.05	3.5	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00005866	0.18	23.2	3.02	836	1.68	0.05	26.3	2090
D00005868	0.56	11.2	<0.01	85	3.30	0.03	5.1	50
D00005876	0.06	24.4	4.14	1300	0.33	0.01	26.5	380
D00005877	0.57	17.9	0.60	133	6.34	0.04	4.8	2280
D00005878	0.22	9.6	0.13	991	16.1	0.02	18.1	150
B00267757	0.15	13.9	0.01	93	19.1	0.01	17.4	1660
*Rep B00267757	0.15	14.7	0.01	94	19.7	0.01	17.7	1740
*Std OREAS209	0.06	13.0	2.15	1230	1.90	0.17	105	1480
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00005866	7.9	6.4	0.09	6.1	<0.3	18.2	3.9	0.16
D00005868	42.5	10.3	0.91	0.9	<0.3	10.9	5.7	<0.01
D00005876	35.2	2.9	0.13	3.7	<0.3	486	3.4	<0.01
D00005877	1.4	18.7	0.12	5.4	0.4	17.3	5.7	0.27
D00005878	871	9.1	0.55	0.8	2.4	9.9	5.4	<0.01
B00267757	153	5.1	12.8	1.5	1.0	3.0	7.7	<0.01
*Rep B00267757	160	5.3	13.4	1.5	1.0	3.0	8.0	<0.01
*Std OREAS209	3.1	3.6	1.14	3.6	0.8	58.4	1.9	0.14
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn	@LOI	@SiO2
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GO_XRF76V	GO_XRF76V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	-10.000	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%
D00005866	0.05	0.77	99	<0.1	13.1	6260	4.76	45.9
D00005868	0.46	0.69	<1	<0.1	2.53	25	3.30	72.7
D00005876	0.05	1.60	13	<0.1	28.0	14	36.4	11.6
D00005877	0.14	3.16	82	0.2	8.11	49	4.37	68.0
D00005878	0.16	7.94	63	0.2	5.87	4920	3.40	77.4
B00267757	0.09	6.64	5	0.2	8.48	1240	6.60	51.5
*Rep B00267757	0.09	6.91	5	0.2	8.79	1180		
*Std OREAS209	0.03	0.43	40	0.4	12.7	72		
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1		
*Rep D00005868							3.30	72.3
*Std SX18-02							30.7	8.79
*Blk BLANK							N.A.	<0.01

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Final : VC173046 Order: PO# BMC17-01013

Report File No.: 0000025434

Element	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O	@Na2O	@TiO2	@MnO
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Units	%	%	%	%	%	%	%	%
D00005866	18.3	14.4	5.21	0.72	1.26	4.73	3.24	0.17
D00005868	7.68	5.37	0.04	0.01	3.74	0.17	0.21	<0.01
D00005876	2.03	10.6	7.31	31.2	0.43	0.02	0.07	0.19
D00005877	10.4	6.00	1.97	2.44	2.46	1.55	1.24	0.04
D00005878	5.43	8.56	0.62	0.52	1.70	0.23	0.07	0.15
B00267757	7.79	29.4	0.14	0.02	2.87	0.13	0.72	0.02
*Rep D00005868	7.59	5.33	0.03	0.01	3.74	0.15	0.21	0.01
*Std SX18-02	2.64	8.13	13.4	26.9	1.38	0.11	0.23	0.82
*Blk BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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Final : VC173046 Order: PO# BMC17-01013

Report File No.: 0000025434

Element	@P2O5	@Cr2O3	@V2O5	Sum
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	0.01	0.01	0
Units	%	%	%	%
D00005866	0.51	<0.01	0.04	99.3
D00005868	0.02	<0.01	<0.01	93.3
D00005876	0.09	<0.01	<0.01	100.0
D00005877	0.61	0.03	0.05	99.1
D00005878	0.05	<0.01	0.12	98.2
B00267757	0.42	0.02	0.02	99.6
*Rep D00005868	0.03	<0.01	<0.01	92.7
*Std SX18-02	3.90	<0.01	0.03	97.0
*Blk BLANK	<0.01	<0.01	<0.01	N.A.

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Certificate of Analysis
Work Order : VC173727
[Report File No.: 0000026400]

Date: December 01, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01020
Project No.: KZK
Samples: 58
Received: Oct 11, 2017
Pages: Page 1 to 17
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
58	G_LOG02	Pre-preparation processing, sorting, logging, boxing
58	G_WGH79	Weighing of samples and reporting of weights
58	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
58	GO_XRF76V	Ore grade Borate fusion, XRF
58	GE_IC40A	Multi-acid (4-acid) digestion/ICP-AES finish
58	GE_IC40M	Multi-acid (4-acid) digestion/ICP-MS finish

Storage: Pulp & Reject

PULP STORAGE : STORE FOR 90 DAYS
REJECT STORAGE : DISPOSE AFTER 30 DAYS

Certified By :
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@LOI	@SiO2	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O
Method	G_WGH79	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	-10.000	0.01	0.01	0.01	0.01	0.01	0.01
Units	kg	%	%	%	%	%	%	%
B00233851	0.325	4.84	44.9	14.4	15.9	5.22	5.32	1.18
B00233853	0.395	5.58	47.6	12.1	15.5	4.05	6.49	1.49
B00233854	0.590	1.49	72.9	13.2	3.12	0.63	1.09	1.99
B00233855	0.435	1.11	74.0	12.8	3.06	0.36	0.91	1.23
B00233856	0.355	3.11	65.2	14.3	5.15	0.87	3.06	3.32
B00233857	0.605	2.85	56.6	12.7	11.1	2.82	3.69	3.67
B00233858	0.455	1.59	75.7	12.3	1.98	0.29	0.90	1.52
B00233861	0.655	6.84	47.9	15.0	10.8	6.14	3.89	2.99
B00233862	0.725	9.31	56.6	8.59	9.51	3.27	7.15	0.78
B00233863	0.600	5.33	48.6	12.3	14.6	3.91	6.70	0.88
B00233864	0.505	3.98	51.0	13.6	11.8	4.38	5.66	0.59
B00233865	0.495	2.40	64.2	16.1	3.38	2.22	2.37	4.80
B00233866	0.395	4.52	48.6	12.1	15.4	3.62	6.82	1.60
B00233867	0.300	1.02	51.1	13.0	15.0	3.98	6.86	1.11
B00233868	0.485	1.93	69.7	14.3	3.22	0.43	1.61	1.99
B00233869	0.440	2.39	67.0	15.9	1.85	0.50	3.05	0.77
B00233870	0.565	2.39	47.6	14.6	12.7	6.80	8.31	2.57
B00233871	0.565	11.9	32.8	13.5	11.2	6.23	16.8	2.85
B00233872	0.625	6.62	44.4	16.0	9.38	3.63	9.29	1.09
B00233873	0.425	1.67	52.3	13.0	14.9	3.17	5.28	3.32
B00233874	0.520	2.42	50.3	13.7	13.5	4.68	7.29	0.59
B00233875	0.330	1.40	66.7	16.3	1.84	0.44	2.22	0.69
B00233876	0.380	4.81	51.6	14.0	5.28	5.40	9.09	4.68
B00233877	0.440	2.55	50.8	12.9	14.6	4.38	6.65	0.87
B00233878	0.345	1.42	69.8	14.8	2.37	0.67	1.81	1.33
B00233879	0.505	2.01	65.5	15.0	5.45	0.85	1.96	2.04
B00233880	0.420	6.29	48.5	12.4	13.2	4.91	7.32	1.26
B00233884	0.465	6.54	42.9	16.0	10.9	9.34	9.30	1.50
B00233885	0.360	7.27	39.5	15.3	11.2	7.54	15.5	0.40
B00233886	0.495	3.80	47.3	14.8	13.0	6.80	6.42	2.12
D00005922	0.770	2.21	41.1	14.4	14.0	4.77	19.7	0.07
D00005923	0.860	2.41	70.4	14.9	2.61	0.76	0.71	7.03
D00005924	0.935	1.71	69.8	14.1	3.64	0.93	0.35	7.86
D00005925	1.265	3.15	70.7	13.8	3.76	1.27	1.48	5.02
*Dup D00005925	N.A.	3.25	70.3	13.9	3.72	1.28	1.66	5.06
D00005926	0.690	3.93	63.9	16.2	4.62	1.68	2.20	6.12
D00005927	0.870	1.35	69.2	14.6	2.57	0.27	0.30	9.69
D00005928	0.690	10.7	43.6	13.0	11.8	4.39	10.0	0.72
D00005929	0.850	1.69	71.9	13.4	3.35	0.39	0.43	7.90
D00005931	0.875	3.07	65.6	13.9	4.10	0.57	2.68	8.91

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Element	WtKg	@LOI	@SiO2	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O
Method	G_WGH79	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	-10.000	0.01	0.01	0.01	0.01	0.01	0.01
Units	kg	%	%	%	%	%	%	%
D00005932	0.550	11.0	42.8	14.7	9.51	7.56	8.86	0.06
D00005934	0.495	8.70	47.2	11.8	13.0	4.04	8.24	0.07
D00005936	0.610	6.55	45.5	15.7	14.0	3.81	5.92	0.14
D00005937	0.555	6.55	50.5	13.0	13.3	4.16	5.75	0.06
D00005938	0.770	5.03	53.9	14.1	11.5	4.35	3.71	0.15
D00005939	0.880	1.27	74.4	13.1	3.22	1.07	0.44	2.87
D00005940	0.830	1.13	48.2	16.1	10.1	8.66	10.1	0.95
D00005941	0.605	1.06	73.8	12.8	3.15	0.65	0.29	7.56
D00005943	0.665	3.81	63.5	16.5	6.23	3.67	0.60	4.19
D00005944	0.535	1.05	68.6	14.9	4.65	0.87	0.28	5.92
D00005945	0.685	4.00	53.8	20.3	8.07	5.84	0.77	4.78
D00005946	0.775	0.850	74.7	12.7	2.09	0.18	0.51	5.57
D00005947	0.915	12.9	31.0	7.16	10.4	11.7	24.7	0.16
D00005948	0.810	1.68	42.4	15.1	14.2	4.89	14.3	1.08
D00005951	0.910	10.2	44.9	12.8	14.3	3.87	8.88	1.37
D00005952	0.705	9.22	45.3	14.5	9.57	5.80	12.6	0.06
D00005953	0.565	1.30	68.0	15.6	2.63	0.66	0.33	8.83
D00005954	0.750	2.34	66.2	14.4	4.43	0.73	2.06	7.50
D00005955	0.485	5.29	53.5	13.7	11.7	3.92	4.67	0.10
*Rep B00233872		6.29	44.5	16.1	9.44	3.61	9.38	1.08
*Rep D00005925		3.20	70.6	13.8	3.77	1.27	1.49	5.02
*Rep D00005948		1.66	42.3	15.0	14.2	4.90	14.3	1.08
*Std OREAS45E		9.07	40.3	13.0	35.3	0.29	0.10	0.41
*Std SRM88B		46.7	1.11	0.32	0.29	21.2	30.1	0.10
*Blk BLANK		N.A.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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Element	@Na2O	@TiO2	@MnO	@P2O5	@Cr2O3	@V2O5	Sum	@Ag
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GE_ICM40B
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0	0.02
Units	%	%	%	%	%	%	%	ppm
B00233851	2.81	4.34	0.18	0.52	<0.01	0.07	99.7	<0.02
B00233853	2.24	3.28	0.22	0.72	<0.01	0.05	99.3	0.14
B00233854	4.63	0.28	0.03	0.11	<0.01	<0.01	99.5	0.03
B00233855	5.65	0.26	0.03	0.10	<0.01	<0.01	99.5	<0.02
B00233856	3.20	0.61	0.09	0.19	<0.01	<0.01	99.2	0.07
B00233857	2.81	2.11	0.13	0.39	0.01	0.04	98.9	0.26
B00233858	4.70	0.16	0.01	0.08	<0.01	<0.01	99.2	0.07
B00233861	0.72	2.19	0.05	0.30	0.02	0.06	96.9	1.48
B00233862	0.44	1.93	0.15	1.63	0.01	0.08	99.4	0.17
B00233863	2.88	3.41	0.22	0.52	<0.01	0.08	99.5	0.07
B00233864	3.66	2.77	0.13	0.27	0.01	0.07	97.9	0.27
B00233865	1.32	1.74	0.04	0.42	0.03	0.04	99.1	<0.02
B00233866	2.07	3.01	0.21	0.97	<0.01	0.04	99.0	0.06
B00233867	3.84	3.44	0.23	0.55	<0.01	0.07	100.2	0.03
B00233868	5.30	0.35	0.03	0.12	<0.01	<0.01	99.0	<0.02
B00233869	8.07	0.20	0.05	0.08	<0.01	<0.01	99.8	<0.02
B00233870	2.36	2.15	0.17	0.28	0.04	0.07	100.1	<0.02
B00233871	1.14	2.98	0.27	0.55	<0.01	0.06	100.3	0.05
B00233872	5.11	3.21	0.17	0.99	<0.01	0.05	100.0	0.08
B00233873	2.49	2.27	0.23	0.94	0.01	0.06	99.6	0.03
B00233874	3.53	2.98	0.18	0.42	0.02	0.07	99.7	<0.02
B00233875	8.58	0.20	0.03	0.08	0.02	<0.01	98.5	<0.02
B00233876	0.27	2.31	0.10	0.57	0.04	0.06	98.2	<0.02
B00233877	3.20	3.23	0.20	0.57	0.01	0.07	100.0	0.03
B00233878	6.22	0.54	0.02	0.15	<0.01	<0.01	99.2	<0.02
B00233879	5.55	0.62	0.05	0.20	<0.01	0.01	99.3	<0.02
B00233880	2.14	3.04	0.23	0.54	<0.01	0.06	99.9	<0.02
B00233884	2.07	1.32	0.14	0.15	0.05	0.04	100.2	0.30
B00233885	1.56	1.13	0.20	0.12	0.05	0.04	99.8	0.58
B00233886	3.30	2.22	0.15	0.29	0.02	0.06	100.3	0.05
D00005922	0.29	2.83	0.23	0.30	0.08	0.03	100.0	<0.02
D00005923	0.18	0.44	0.05	0.13	<0.01	0.01	99.6	<0.02
D00005924	0.25	0.41	0.04	0.13	<0.01	<0.01	99.2	<0.02
D00005925	0.16	0.43	0.03	0.13	<0.01	<0.01	99.9	<0.02
*Dup D00005925	0.14	0.44	0.03	0.14	<0.01	<0.01	99.9	<0.02
D00005926	0.14	0.62	0.05	0.19	<0.01	<0.01	99.7	<0.02
D00005927	0.42	0.35	0.04	0.11	<0.01	<0.01	98.9	<0.02
D00005928	2.73	2.54	0.17	0.40	<0.01	0.06	100.2	0.25
D00005929	0.22	0.35	0.06	0.13	<0.01	<0.01	99.9	<0.02
D00005931	0.26	0.56	0.04	0.18	0.01	<0.01	99.9	<0.02

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Element	@Na2O	@TiO2	@MnO	@P2O5	@Cr2O3	@V2O5	Sum	@Ag
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GE_ICM40B
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0	0.02
Units	%	%	%	%	%	%	%	ppm
D00005932	3.79	1.34	0.16	0.26	0.03	0.04	100.2	0.37
D00005934	3.00	2.89	0.25	0.38	<0.01	0.06	99.7	0.17
D00005936	5.17	2.46	0.24	0.83	<0.01	0.01	100.3	0.25
D00005937	3.49	2.72	0.19	0.48	<0.01	0.05	100.2	0.20
D00005938	4.44	2.09	0.16	0.45	0.03	0.04	100.0	0.14
D00005939	3.67	0.30	0.02	0.09	<0.01	<0.01	100.4	0.11
D00005940	3.02	1.54	0.15	0.16	0.07	0.05	100.1	0.03
D00005941	1.10	0.31	0.03	0.09	<0.01	<0.01	100.8	<0.02
D00005943	0.28	0.71	0.08	0.23	<0.01	<0.01	99.8	<0.02
D00005944	3.03	0.51	0.04	0.15	<0.01	<0.01	100.0	<0.02
D00005945	1.43	0.68	0.09	0.08	0.02	0.01	99.9	<0.02
D00005946	2.75	0.12	0.03	0.10	0.01	<0.01	99.7	<0.02
D00005947	0.37	1.68	0.16	0.21	0.26	0.06	100.8	0.29
D00005948	1.77	3.66	0.28	0.72	0.01	0.06	100.2	0.33
D00005951	1.08	1.98	0.22	0.30	<0.01	0.05	99.9	0.09
D00005952	1.60	1.47	0.14	0.16	0.04	0.04	100.5	0.04
D00005953	1.91	0.39	0.02	0.12	<0.01	<0.01	99.8	0.02
D00005954	1.52	0.52	0.07	0.16	<0.01	<0.01	99.9	<0.02
D00005955	4.02	2.51	0.14	0.39	<0.01	0.07	100.1	0.06
*Rep B00233876								0.04
*Rep D00005936								0.26
*Std OREAS601								51.1
*Std OREAS601								49.6
*Blk BLANK								0.02
*Rep B00233872	5.11	3.22	0.18	1.01	<0.01	0.04	99.9	
*Rep D00005925	0.14	0.43	0.03	0.13	<0.01	<0.01	99.9	
*Rep D00005948	1.78	3.64	0.27	0.73	0.02	0.06	100.0	
*Std OREAS45E	0.08	0.99	0.07	0.08	0.16	0.06	99.9	
*Std SRM88B	0.04	<0.01	0.02	<0.01	0.02	<0.01	99.9	
*Blk BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N.A.	
*Blk BLANK								<0.02

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Element	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K	@Li
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	1	0.01	1	0.5	0.01	0.01	1
Units	%	ppm	%	ppm	ppm	%	%	ppm
B00233851	7.48	2170	3.82	<1	<0.5	10.7	0.98	28
B00233853	6.13	268	4.51	20	<0.5	10.1	1.21	24
B00233854	6.45	1010	0.79	4	29.0	2.17	1.55	8
B00233855	6.51	842	0.67	3	4.3	2.12	0.99	7
B00233856	7.11	1650	2.27	5	6.9	3.51	2.67	15
B00233857	6.55	1140	2.66	10	40.3	7.34	3.05	31
B00233858	6.43	900	0.68	6	16.4	1.36	1.21	12
B00233861	7.75	149	2.86	72	677	7.15	2.44	44
B00233862	4.53	615	5.25	33	92.4	6.51	0.66	21
B00233863	6.30	604	4.83	8	1.7	9.60	0.74	17
B00233864	6.86	219	4.03	36	5.7	7.59	0.50	21
B00233865	8.22	3710	1.75	78	<0.5	2.33	3.91	12
B00233866	6.27	540	4.92	9	18.6	10.3	1.34	22
B00233867	6.74	528	4.97	4	6.9	9.96	0.93	14
B00233868	6.92	1150	1.14	3	20.6	2.22	1.54	9
B00233869	7.74	572	2.20	3	18.9	1.25	0.62	5
B00233870	7.61	705	5.83	124	<0.5	8.29	2.15	24
B00233871	7.19	1050	11.9	6	<0.5	7.38	2.47	28
B00233872	8.44	593	6.59	8	<0.5	6.28	0.90	24
B00233873	6.63	1010	3.76	20	7.3	9.87	2.75	24
B00233874	6.96	149	5.18	25	12.7	8.71	0.50	10
B00233875	8.33	540	1.59	1	20.4	1.27	0.55	5
B00233876	7.24	2370	6.32	230	215	3.58	3.89	13
B00233877	6.47	441	4.61	18	11.2	9.35	0.73	20
B00233878	7.65	1160	1.35	4	28.3	1.57	1.06	7
B00233879	7.58	1410	1.40	6	14.9	3.83	1.64	14
B00233880	6.34	483	5.11	30	8.7	8.57	1.04	23
B00233884	8.31	663	6.52	211	62.4	7.05	1.25	40
B00233885	8.17	443	10.8	204	164	7.38	0.34	17
B00233886	7.62	1300	4.59	64	90.2	8.53	1.78	24
D00005922	7.59	33	14.2	300	22.3	9.07	0.06	3
D00005923	7.17	876	0.50	4	3.5	1.79	5.16	16
D00005924	6.57	2130	0.26	7	2.3	2.48	4.47	26
D00005925	6.64	1290	1.04	3	1.1	2.52	3.98	14
*Dup D00005925	6.61	1300	1.15	2	1.4	2.48	3.93	14
D00005926	8.23	1230	1.60	5	7.3	3.20	4.53	17
D00005927	7.45	1050	0.23	6	3.3	1.78	3.60	13
D00005928	7.02	339	7.13	18	125	7.72	0.61	26
D00005929	7.14	1170	1.98	10	0.9	2.77	3.85	16
D00005931	7.25	1220	2.00	6	0.8	2.83	4.27	16

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Element	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K	@Li
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	1	0.01	1	0.5	0.01	0.01	1
Units	%	ppm	%	ppm	ppm	%	%	ppm
D00005932	7.91	37	6.50	129	100	6.17	0.05	29
D00005934	6.23	20	6.00	11	57.4	8.35	0.06	21
D00005936	8.53	135	4.26	<1	13.0	9.13	0.12	19
D00005937	7.13	20	4.14	47	2.2	8.96	0.05	17
D00005938	7.53	93	2.73	71	<0.5	7.59	0.13	17
D00005939	6.62	564	0.32	9	11.5	2.19	2.23	16
D00005940	8.67	166	7.16	285	82.2	6.42	0.80	27
D00005941	6.48	645	0.22	9	0.7	2.21	3.33	30
D00005943	8.63	1060	0.43	7	6.5	4.11	3.37	25
D00005944	7.68	1010	0.21	7	2.9	3.03	3.40	17
D00005945	10.6	1080	0.53	72	<0.5	5.27	2.94	36
D00005946	6.44	261	0.37	11	3.3	1.43	3.17	13
D00005947	3.73	196	>15.0	1210	169	6.56	0.14	11
D00005948	8.25	1050	9.97	47	<0.5	9.27	0.91	20
D00005951	6.81	2770	5.98	2	<0.5	9.14	1.14	22
D00005952	7.96	126	8.93	174	10.4	6.20	0.06	58
D00005953	7.96	1150	0.25	5	5.2	1.76	3.41	16
D00005954	7.41	1120	1.50	6	1.4	2.89	3.57	22
D00005955	7.39	56	3.34	22	6.1	7.71	0.08	20
*Rep B00233876	6.95	2360	6.20	221	210	3.57	3.75	13
*Rep D00005936	8.42	134	4.22	<1	14.1	8.99	0.12	19
*Std OREAS601	6.22	428	1.43	27	983	2.50	2.13	20
*Std OREAS601	6.24	382	1.35	39	950	2.47	1.98	20
*Blk BLANK	0.01	<1	<0.01	<1	<0.5	<0.01	<0.01	<1
*Blk BLANK	0.01	<1	<0.01	<1	<0.5	<0.01	<0.01	<1

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Element	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	0.01	0.5	0.005	0.01	0.5	0.01
Units	%	ppm	%	ppm	%	%	ppm	%
B00233851	3.22	1250	2.03	0.9	0.216	<0.01	137	2.46
B00233853	2.42	1580	1.61	12.7	0.305	0.32	127	1.77
B00233854	0.33	189	2.99	3.4	0.046	0.31	50.3	0.14
B00233855	0.20	266	3.66	2.3	0.045	0.11	58.2	0.14
B00233856	0.47	698	2.16	4.6	0.081	0.34	97.9	0.34
B00233857	1.74	987	1.97	5.5	0.158	0.65	133	1.17
B00233858	0.14	155	3.13	1.8	0.033	0.38	57.3	0.09
B00233861	3.78	353	0.50	46.1	0.125	3.34	90.4	0.97
B00233862	2.01	1170	0.32	46.0	0.568	0.39	168	0.84
B00233863	2.37	1530	2.07	16.8	0.213	0.14	197	1.94
B00233864	2.69	888	2.58	4.0	0.109	1.15	185	1.53
B00233865	1.28	236	0.91	41.6	0.172	0.01	170	0.97
B00233866	2.15	1540	1.48	6.3	0.405	0.36	149	1.68
B00233867	2.41	1610	2.74	15.1	0.220	0.15	207	1.95
B00233868	0.21	224	3.43	2.9	0.051	0.43	101	0.18
B00233869	0.27	354	5.42	2.3	0.033	0.19	124	0.10
B00233870	4.24	1240	1.70	45.9	0.112	0.02	464	1.17
B00233871	3.87	1960	0.83	35.9	0.230	<0.01	322	1.67
B00233872	2.11	1280	3.60	44.8	0.412	0.11	287	1.77
B00233873	1.81	1600	1.77	9.8	0.381	0.22	347	1.26
B00233874	2.79	1290	2.52	9.6	0.176	0.27	295	1.65
B00233875	0.23	258	5.64	2.5	0.027	0.18	269	0.11
B00233876	3.22	710	0.20	104	0.223	0.55	149	1.23
B00233877	2.62	1380	2.24	18.7	0.236	0.14	208	1.77
B00233878	0.35	182	4.20	4.5	0.063	0.28	108	0.30
B00233879	0.47	391	3.78	4.7	0.084	0.16	126	0.33
B00233880	2.91	1610	1.51	13.5	0.218	0.16	141	1.65
B00233884	5.50	999	1.50	86.1	0.059	0.02	255	0.74
B00233885	4.50	1410	1.12	84.5	0.043	0.20	445	0.64
B00233886	4.23	1030	2.37	61.0	0.118	<0.01	201	1.25
D00005922	2.88	1650	0.13	157	0.122	<0.01	1320	1.58
D00005923	0.41	383	0.11	4.8	0.053	0.01	17.9	0.21
D00005924	0.50	289	0.16	5.2	0.051	<0.01	31.8	0.21
D00005925	0.69	223	0.08	2.0	0.053	<0.01	29.5	0.21
*Dup D00005925	0.69	231	0.08	2.1	0.052	<0.01	29.3	0.20
D00005926	0.94	368	0.08	2.8	0.078	<0.01	34.2	0.33
D00005927	0.13	332	0.28	2.5	0.044	0.03	27.0	0.18
D00005928	2.63	1240	2.13	39.6	0.163	<0.01	230	1.31
D00005929	0.28	275	0.18	3.7	0.081	0.01	40.6	0.28
D00005931	0.29	284	0.18	3.0	0.081	0.01	41.0	0.28

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Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	0.01	0.5	0.005	0.01	0.5	0.01
Units	%	ppm	%	ppm	%	%	ppm	%
D00005932	4.75	1090	2.94	121	0.115	<0.01	338	0.47
D00005934	2.48	1780	2.35	8.1	0.160	0.27	170	1.50
D00005936	2.32	1790	4.02	<0.5	0.364	0.01	177	1.32
D00005937	2.59	1430	2.70	17.0	0.209	0.02	141	1.53
D00005938	2.71	1110	3.36	16.3	0.194	<0.01	98.3	1.12
D00005939	0.60	180	2.59	1.9	0.042	0.04	22.9	0.16
D00005940	5.14	1040	2.38	137	0.071	0.09	472	0.87
D00005941	0.36	231	0.77	2.5	0.036	<0.01	24.4	0.16
D00005943	2.28	629	0.19	2.9	0.100	0.10	28.4	0.20
D00005944	0.48	294	2.16	3.2	0.067	<0.01	48.0	0.29
D00005945	3.60	643	1.02	47.1	0.033	<0.01	84.1	0.37
D00005946	0.08	171	1.91	1.9	0.045	0.01	87.9	0.07
D00005947	6.78	1120	0.28	361	0.084	<0.01	226	0.94
D00005948	2.92	2000	1.38	55.9	0.306	<0.01	628	2.01
D00005951	2.36	1520	0.81	18.0	0.125	<0.01	198	1.08
D00005952	3.58	1050	1.24	66.2	0.069	<0.01	339	0.85
D00005953	0.35	121	1.35	2.4	0.052	0.02	39.6	0.22
D00005954	0.39	454	1.09	2.9	0.064	<0.01	53.2	0.28
D00005955	2.44	1030	3.13	4.0	0.174	<0.01	122	1.37
*Rep B00233876	3.18	707	0.19	101	0.224	0.52	141	1.22
*Rep D00005936	2.33	1770	3.97	<0.5	0.348	0.01	177	1.32
*Std OREAS601	0.38	477	1.41	21.5	0.041	1.09	225	0.17
*Std OREAS601	0.38	482	1.42	22.0	0.046	1.09	232	0.16
*Blk BLANK	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5	<0.01
*Blk BLANK	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5	<0.01

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Element	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd	@Ce
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	2	1	0.5	1	0.1	0.04	0.02	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
B00233851	327	177	71.5	21	1.2	<0.04	0.11	76.6
B00233853	266	218	35.4	104	0.2	<0.04	0.11	75.0
B00233854	10	26	89.7	<1	1.3	<0.04	0.07	117
B00233855	9	24	82.6	<1	1.1	0.05	0.03	113
B00233856	27	239	121	<1	2.0	<0.04	0.85	165
B00233857	195	377	75.7	<1	1.5	0.30	0.23	90.6
B00233858	4	8	74.5	<1	1.2	<0.04	0.03	79.6
B00233861	281	136	102	<1	2.1	<0.04	0.70	44.3
B00233862	393	154	29.8	<1	1.1	0.35	0.16	51.9
B00233863	370	127	45.8	<1	1.4	0.05	0.11	72.4
B00233864	346	232	35.4	<1	0.4	0.07	0.24	60.2
B00233865	162	27	108	69	5.0	0.12	<0.02	116
B00233866	189	118	31.0	<1	0.6	0.15	0.13	87.4
B00233867	390	130	47.5	<1	1.5	0.11	0.15	72.2
B00233868	13	13	57.9	<1	1.8	0.11	0.06	190
B00233869	26	12	55.8	<1	1.3	0.04	0.06	24.4
B00233870	282	107	33.1	18	1.0	0.34	0.16	39.4
B00233871	279	104	32.7	<1	1.5	0.15	0.21	139
B00233872	217	112	31.6	7	0.9	0.44	0.26	163
B00233873	224	171	31.9	<1	1.0	0.28	0.14	93.9
B00233874	312	117	33.3	<1	1.2	0.12	0.16	67.8
B00233875	28	7	30.9	<1	1.3	0.06	0.03	27.0
B00233876	256	43	81.7	32	1.8	0.17	0.20	80.6
B00233877	339	143	41.0	<1	1.2	0.17	0.12	71.4
B00233878	19	26	117	<1	1.5	0.22	0.06	223
B00233879	26	54	76.4	<1	1.5	0.26	0.06	175
B00233880	308	104	39.6	<1	0.4	0.09	0.15	68.1
B00233884	204	91	11.8	4	0.9	<0.04	0.14	25.4
B00233885	183	90	13.5	645	0.4	0.15	1.07	20.8
B00233886	266	84	21.5	3	0.8	0.40	0.22	43.5
D00005922	135	2030	80.4	7	0.8	3.58	16.4	88.8
D00005923	18	17	156	3	2.6	0.09	0.08	206
D00005924	17	47	157	<1	2.0	0.10	0.09	197
D00005925	17	35	198	<1	2.5	<0.04	0.07	194
*Dup D00005925	17	29	193	<1	2.5	0.07	<0.02	191
D00005926	24	42	205	1	2.8	0.24	0.05	202
D00005927	11	12	72.9	<1	2.2	0.17	0.07	219
D00005928	274	128	42.9	20	0.6	<0.04	0.30	59.9
D00005929	24	8	146	<1	1.9	0.09	0.03	162
D00005931	23	8	146	<1	2.1	0.08	0.02	161

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Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	2	1	0.5	1	0.1	0.04	0.02	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00005932	160	67	29.1	4	0.3	<0.04	0.15	40.5
D00005934	312	170	33.9	8	0.3	<0.04	0.47	56.1
D00005936	41	151	39.8	<1	0.4	<0.04	0.34	109
D00005937	300	178	68.3	33	0.6	<0.04	0.26	65.0
D00005938	200	165	63.2	9	0.5	<0.04	0.15	68.1
D00005939	16	22	106	<1	1.9	0.07	0.03	85.3
D00005940	201	63	22.2	<1	0.6	0.14	0.09	24.1
D00005941	16	35	116	<1	2.5	0.25	0.07	83.3
D00005943	32	239	173	<1	2.7	<0.04	0.08	193
D00005944	22	59	63.1	<1	2.3	<0.04	0.06	208
D00005945	77	90	6.5	5	3.5	0.05	<0.02	117
D00005946	3	21	11.5	2	2.9	0.17	0.04	67.9
D00005947	262	98	26.7	<1	0.6	<0.04	0.34	34.2
D00005948	293	150	93.2	29	1.6	0.56	0.14	74.3
D00005951	239	154	27.4	16	1.5	<0.04	0.21	46.3
D00005952	222	548	16.7	2	0.2	<0.04	2.64	23.3
D00005953	15	245	61.4	<1	2.3	0.11	1.03	135
D00005954	20	100	132	<1	2.4	<0.04	0.59	195
D00005955	291	123	83.8	15	0.2	<0.04	0.19	66.8
*Rep B00233876	254	41	80.7	31	1.8	0.17	0.18	79.6
*Rep D00005936	41	152	49.5	<1	0.4	<0.04	0.34	108
*Std OREAS601	26	1300	163	326	1.8	21.4	8.12	64.2
*Std OREAS601	26	1330	163	315	2.1	19.9	7.92	58.2
*Blk BLANK	<2	<1	<0.5	<1	<0.1	<0.04	<0.02	<0.05
*Blk BLANK	<2	<1	<0.5					
*Blk BLANK				<1	<0.1	<0.04	<0.02	<0.05

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Element	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu	@Mo
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	1	0.1	0.02	0.02	0.1	0.01	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
B00233851	39.6	6	27.1	1.52	0.12	38.7	0.35	1.03
B00233853	32.1	4	24.8	0.45	0.13	36.0	0.65	1.93
B00233854	3.9	2	21.5	2.60	0.03	60.2	0.47	2.60
B00233855	2.2	1	20.4	2.48	0.07	58.7	0.50	2.36
B00233856	5.5	3	27.6	2.74	0.17	82.9	0.50	2.65
B00233857	22.3	14	23.6	1.43	0.11	45.9	0.46	2.44
B00233858	2.0	2	20.4	2.74	<0.02	40.6	0.45	2.89
B00233861	33.9	3	22.5	2.42	0.04	20.5	0.45	1.42
B00233862	19.2	6	17.2	0.52	0.06	26.0	0.42	5.05
B00233863	36.1	9	25.9	1.01	0.13	34.1	0.53	2.06
B00233864	29.0	4	21.7	0.64	0.07	28.7	0.41	0.94
B00233865	39.4	4	31.3	3.11	0.11	62.2	0.47	7.04
B00233866	30.0	4	24.3	0.41	0.16	40.9	0.74	2.24
B00233867	34.4	4	25.5	1.07	0.12	34.0	0.51	2.14
B00233868	3.7	1	23.7	1.54	0.07	95.1	0.46	2.21
B00233869	2.9	<1	25.7	1.52	0.03	13.1	0.08	0.41
B00233870	43.3	3	24.0	0.59	0.10	17.6	0.37	1.10
B00233871	24.2	3	24.2	0.33	0.10	73.7	0.22	1.83
B00233872	22.8	1	24.3	0.54	0.18	90.4	0.28	0.50
B00233873	18.3	11	29.2	0.47	0.14	45.3	0.61	5.09
B00233874	35.0	1	23.4	0.62	0.11	31.7	0.45	1.77
B00233875	2.0	<1	25.6	0.88	0.02	14.5	0.11	0.31
B00233876	56.3	2	21.8	1.69	0.08	43.9	0.25	2.10
B00233877	34.7	2	24.5	0.97	0.11	35.0	0.49	2.08
B00233878	4.1	2	21.6	2.30	0.06	114	0.44	2.78
B00233879	6.0	3	24.7	1.22	0.07	88.1	0.39	2.58
B00233880	29.3	3	22.3	0.64	0.11	31.6	0.46	2.80
B00233884	42.5	3	17.3	0.33	0.07	12.0	0.31	0.50
B00233885	39.5	<1	20.0	0.30	0.06	9.6	0.25	0.89
B00233886	38.6	4	20.6	0.54	0.11	20.3	0.24	1.37
D00005922	29.6	<1	31.5	2.28	0.23	49.4	0.22	1.26
D00005923	3.2	1	25.1	4.63	0.07	105	0.26	1.15
D00005924	3.7	3	23.9	4.06	0.08	101	0.28	0.96
D00005925	2.6	1	23.4	4.27	0.08	101	0.34	0.73
*Dup D00005925	2.5	1	23.8	4.32	0.08	99.4	0.35	0.90
D00005926	5.4	2	27.6	4.12	0.09	105	0.39	1.77
D00005927	3.6	2	22.4	1.97	0.09	115	0.40	2.56
D00005928	36.7	<1	17.4	0.43	0.08	31.4	0.22	0.84
D00005929	3.6	2	20.9	3.72	0.08	83.5	0.36	1.68
D00005931	3.6	2	21.2	3.69	0.08	82.7	0.38	1.59

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Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	1	0.1	0.02	0.02	0.1	0.01	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00005932	43.1	<1	15.5	0.61	0.06	22.7	0.19	0.63
D00005934	34.1	<1	19.3	0.55	0.11	28.2	0.43	1.53
D00005936	18.5	<1	25.6	0.44	0.06	54.6	0.34	1.58
D00005937	31.2	<1	22.1	1.26	0.10	32.7	0.44	1.39
D00005938	26.2	<1	21.4	0.99	0.10	34.3	0.30	0.58
D00005939	2.6	1	20.1	2.59	0.04	44.7	0.38	1.21
D00005940	49.9	2	17.5	0.86	0.07	10.4	0.35	0.59
D00005941	2.7	2	19.0	3.36	0.06	36.8	0.46	1.57
D00005943	4.6	2	25.3	4.20	0.10	98.7	0.28	2.43
D00005944	3.4	3	23.4	1.42	0.09	111	0.20	0.84
D00005945	21.6	2	25.8	0.16	0.08	62.7	0.34	0.27
D00005946	1.4	1	20.1	0.57	0.03	39.2	0.56	1.65
D00005947	73.1	<1	11.1	0.94	0.05	16.4	0.13	0.16
D00005948	49.3	2	23.7	2.21	0.16	36.3	0.29	1.44
D00005951	39.6	1	19.1	0.50	0.09	25.5	0.31	0.91
D00005952	39.8	<1	16.8	0.41	0.07	12.4	0.30	0.33
D00005953	1.4	1	22.9	1.57	0.09	64.7	0.44	1.86
D00005954	3.4	1	22.2	3.23	0.09	106	0.55	0.69
D00005955	27.6	<1	21.1	1.31	0.09	35.7	0.44	0.69
*Rep B00233876	55.3	2	21.4	1.64	0.07	43.8	0.24	2.18
*Rep D00005936	18.5	<1	25.5	0.47	0.06	54.5	0.33	1.61
*Std OREAS601	5.8	7	21.9	4.47	1.78	32.9	0.09	3.87
*Std OREAS601	5.8	7	20.2	4.41	1.80	32.2	0.10	3.94
*Blk BLANK	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01	<0.05
*Blk BLANK	<0.1	<1	<0.1	<0.02	<0.02	0.1	<0.01	<0.05

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Element	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn	@Ta
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	0.5	0.2	0.05	0.5	2	0.3	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
B00233851	56.7	3.8	41.6	0.33	24.8	<2	2.5	3.39
B00233853	31.9	3.1	81.8	0.29	31.6	<2	2.4	1.90
B00233854	31.5	3.7	58.9	<0.05	6.3	<2	3.0	2.11
B00233855	30.5	3.3	38.3	0.05	5.8	<2	4.3	1.92
B00233856	44.4	6.1	104	0.05	11.9	<2	5.1	2.27
B00233857	31.2	8.2	145	0.14	23.8	<2	3.6	1.85
B00233858	26.9	3.0	41.0	0.08	4.4	<2	2.4	1.85
B00233861	18.6	2.9	100.0	0.59	40.7	15	2.0	0.92
B00233862	5.2	5.0	28.8	0.14	19.3	<2	1.4	0.31
B00233863	29.9	4.6	41.5	0.25	35.8	<2	2.5	1.81
B00233864	18.2	6.5	20.5	0.10	36.8	3	1.5	1.18
B00233865	59.5	6.3	120	0.11	22.1	<2	6.2	3.24
B00233866	32.7	4.6	65.6	0.11	29.3	<2	2.7	2.05
B00233867	30.6	6.7	35.2	0.22	34.7	<2	2.5	1.82
B00233868	33.3	6.0	55.6	0.07	7.8	<2	3.8	2.00
B00233869	10.3	3.8	19.7	<0.05	2.7	<2	0.9	0.40
B00233870	17.3	9.1	86.2	0.24	38.9	<2	1.6	1.00
B00233871	113	6.9	89.9	0.20	16.5	<2	2.8	6.26
B00233872	110	19.2	28.0	0.28	17.7	<2	9.2	6.50
B00233873	36.1	9.5	122	0.22	25.4	<2	3.2	2.07
B00233874	28.7	7.2	19.9	0.24	32.3	<2	2.3	1.64
B00233875	11.2	4.7	16.8	<0.05	2.3	<2	1.4	0.48
B00233876	50.8	9.2	113	0.13	24.5	<2	2.1	3.11
B00233877	30.3	5.9	29.1	0.27	33.1	<2	2.4	1.76
B00233878	44.6	4.2	35.0	0.06	12.1	<2	3.1	2.32
B00233879	44.2	6.3	73.1	0.08	12.1	<2	3.2	2.31
B00233880	29.1	6.1	47.5	0.11	27.4	<2	2.2	1.71
B00233884	11.1	13.9	43.9	1.77	32.4	<2	0.9	0.73
B00233885	9.6	38.7	15.0	9.52	29.5	<2	0.8	0.56
B00233886	27.7	5.8	75.9	0.17	30.6	<2	2.0	1.56
D00005922	49.1	24.0	0.7	2.42	26.9	<2	5.2	2.78
D00005923	34.7	4.7	171	0.15	10.1	<2	4.6	1.75
D00005924	35.9	19.2	121	0.10	9.5	<2	4.4	1.92
D00005925	40.7	4.8	148	<0.05	12.7	<2	4.0	1.93
*Dup D00005925	43.5	5.2	151	<0.05	12.7	<2	4.0	2.12
D00005926	48.2	7.7	180	0.06	14.8	<2	4.5	2.28
D00005927	37.9	17.0	92.6	0.09	9.6	<2	5.3	2.44
D00005928	35.8	17.6	22.5	0.27	24.9	<2	1.5	2.22
D00005929	37.8	8.7	85.4	0.10	10.2	<2	3.9	2.36
D00005931	37.6	8.8	93.1	0.09	10.4	<2	3.9	2.19

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Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	0.5	0.2	0.05	0.5	2	0.3	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00005932	18.2	7.9	1.6	0.22	29.5	<2	0.5	1.21
D00005934	22.5	8.9	1.8	0.07	28.5	<2	0.7	1.45
D00005936	73.4	6.0	4.3	0.07	7.0	<2	1.2	4.62
D00005937	26.2	1.9	1.5	0.15	30.3	<2	2.1	1.73
D00005938	27.9	2.5	4.4	0.06	25.3	<2	2.1	1.67
D00005939	21.1	7.5	59.6	0.07	5.2	<2	4.9	1.48
D00005940	8.9	7.7	35.9	0.08	32.4	<2	1.5	0.58
D00005941	22.0	26.5	102	<0.05	5.1	<2	5.1	1.60
D00005943	15.3	6.5	122	0.14	13.2	<2	4.1	0.97
D00005944	42.8	5.6	126	0.07	12.5	<2	4.5	2.32
D00005945	17.5	2.2	104	<0.05	18.9	<2	2.8	1.26
D00005946	22.1	18.6	122	<0.05	3.8	<2	6.2	1.84
D00005947	23.9	4.5	2.3	0.78	45.4	<2	1.0	1.46
D00005948	75.7	13.1	24.8	0.50	20.6	<2	3.8	4.94
D00005951	31.7	6.2	44.1	0.09	25.0	<2	1.8	1.81
D00005952	10.3	14.8	3.1	0.97	33.6	<2	1.0	0.64
D00005953	36.7	15.4	82.5	0.06	8.8	<2	5.5	2.32
D00005954	40.6	2.9	121	<0.05	11.1	<2	4.9	2.44
D00005955	20.4	4.0	4.8	0.21	34.4	<2	1.7	1.34
*Rep B00233876	56.6	9.1	112	0.14	24.0	<2	2.0	3.28
*Rep D00005936	73.7	6.0	4.4	0.08	6.9	<2	1.2	4.60
*Std OREAS601	13.7	340	98.6	31.6	5.2	14	4.2	0.96
*Std OREAS601	13.1	331	89.7	31.2	4.9	12	4.3	0.93
*Blk BLANK	<0.1	0.5	<0.2	<0.05	<0.5	<2	<0.3	<0.05
*Blk BLANK	<0.1	0.5	0.3	<0.05	<0.5	<2	<0.3	<0.05

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Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.2	0.02	0.05	0.1	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
B00233851	1.45	<0.05	4.1	0.27	0.56	1.0	37.0	2.7
B00233853	1.95	<0.05	4.6	1.33	0.67	0.5	58.4	4.9
B00233854	1.33	<0.05	25.7	0.34	4.42	1.2	33.3	3.3
B00233855	1.46	<0.05	25.4	0.23	5.18	0.6	38.9	3.8
B00233856	1.75	<0.05	27.1	0.69	3.36	1.5	43.4	3.6
B00233857	1.71	<0.05	10.8	1.32	1.87	0.7	49.8	3.8
B00233858	1.00	<0.05	21.3	0.20	5.83	0.9	27.7	3.1
B00233861	1.09	0.13	2.9	0.60	1.83	3.1	33.2	2.9
B00233862	1.06	<0.05	4.5	0.15	3.94	10.7	34.5	2.9
B00233863	1.63	<0.05	5.5	0.29	1.19	1.3	48.8	4.0
B00233864	1.10	<0.05	6.2	0.13	0.99	0.6	33.7	2.9
B00233865	1.61	<0.05	14.4	0.55	4.30	4.6	41.5	3.4
B00233866	2.30	<0.05	5.0	0.42	0.93	0.7	69.6	5.6
B00233867	1.63	<0.05	5.5	0.23	1.21	0.8	49.1	3.9
B00233868	1.97	<0.05	37.4	0.23	4.64	1.3	46.0	3.7
B00233869	0.28	<0.05	2.6	0.10	2.58	1.2	9.0	0.7
B00233870	1.09	<0.05	1.9	0.45	0.51	0.8	34.4	2.9
B00233871	1.33	<0.05	9.8	0.45	2.69	1.3	28.9	1.8
B00233872	1.78	<0.05	9.5	0.15	2.23	3.0	38.4	2.5
B00233873	2.16	<0.05	6.6	0.77	2.06	0.6	63.4	4.9
B00233874	1.45	<0.05	5.3	0.12	1.37	0.8	43.9	3.5
B00233875	0.27	<0.05	4.4	0.08	1.92	0.4	9.3	0.8
B00233876	1.01	<0.05	6.2	0.45	2.97	3.9	24.8	1.9
B00233877	1.58	<0.05	5.6	0.17	1.24	1.1	47.3	3.7
B00233878	2.00	<0.05	35.4	0.15	3.75	1.1	45.3	3.5
B00233879	1.89	<0.05	27.1	0.39	3.28	0.9	43.1	3.1
B00233880	1.44	<0.05	4.8	0.31	1.09	1.8	41.3	3.4
B00233884	0.81	0.05	1.5	0.68	0.28	0.6	23.9	2.2
B00233885	0.60	<0.05	1.3	2.32	0.24	0.8	19.2	1.7
B00233886	0.89	<0.05	1.8	0.38	0.31	1.7	23.2	1.7
D00005922	1.12	<0.05	3.9	<0.02	0.81	2.7	24.4	1.7
D00005923	1.36	<0.05	36.4	0.71	3.44	1.6	16.9	1.6
D00005924	1.28	<0.05	34.3	0.72	2.71	2.1	15.8	1.7
D00005925	1.64	<0.05	32.1	0.45	2.21	1.7	26.2	2.3
*Dup D00005925	1.65	<0.05	31.9	0.46	2.23	1.9	27.3	2.4
D00005926	1.77	<0.05	32.7	0.56	2.10	2.7	31.4	2.6
D00005927	1.90	<0.05	44.4	0.94	8.71	1.7	33.0	2.7
D00005928	1.04	<0.05	4.4	0.13	0.24	0.6	22.8	1.5
D00005929	1.35	<0.05	26.1	0.66	2.69	0.9	20.1	2.2
D00005931	1.35	<0.05	25.9	0.66	2.69	0.9	20.1	2.2

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Element	@Tb	@Te	@Th	@Tl	@U	@W	@Y	@Yb
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.2	0.02	0.05	0.1	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D00005932	0.63	<0.05	3.2	<0.02	0.39	0.6	17.0	1.3
D00005934	1.31	<0.05	4.5	<0.02	0.49	0.5	34.4	3.1
D00005936	1.56	<0.05	6.5	0.02	0.69	0.3	34.4	2.4
D00005937	1.49	<0.05	6.1	<0.02	1.09	0.5	37.5	3.2
D00005938	1.26	<0.05	6.5	0.02	0.83	0.3	26.8	2.3
D00005939	0.97	<0.05	23.1	0.18	3.91	1.9	23.8	2.4
D00005940	0.85	<0.05	2.2	0.23	0.39	0.4	25.2	2.3
D00005941	1.02	<0.05	21.5	0.85	4.27	1.4	25.3	2.8
D00005943	1.40	<0.05	30.3	0.66	3.37	1.2	13.0	1.6
D00005944	1.52	<0.05	35.7	0.84	2.23	1.2	16.4	1.3
D00005945	1.00	<0.05	14.6	0.47	2.09	2.6	24.0	2.3
D00005946	1.48	<0.05	18.7	0.59	5.95	1.7	46.4	3.8
D00005947	0.55	<0.05	2.0	<0.02	1.09	0.5	11.7	0.9
D00005948	1.32	<0.05	6.1	0.14	1.90	2.8	28.5	2.0
D00005951	0.91	<0.05	3.3	0.37	0.39	0.9	24.7	2.1
D00005952	0.80	<0.05	1.1	0.03	0.27	0.4	24.6	2.1
D00005953	1.59	<0.05	41.2	0.82	4.00	0.9	40.3	3.4
D00005954	2.15	<0.05	34.3	0.86	2.89	1.2	50.0	4.1
D00005955	1.26	<0.05	8.7	0.03	1.19	0.2	35.1	3.0
*Rep B00233876	0.99	<0.05	6.0	0.45	2.89	4.0	24.8	1.8
*Rep D00005936	1.56	<0.05	6.4	<0.02	0.71	0.3	34.4	2.5
*Std OREAS601	0.60	15.8	10.7	1.17	3.78	5.7	12.0	0.7
*Std OREAS601	0.61	15.9	11.3	1.21	3.98	5.7	11.7	0.7
*Blk BLANK	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1	<0.1
*Blk BLANK	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1	<0.1

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Appendix J: Hyperspectral Imaging Data from Hand Samples

This appendix contains short wave infrared (SWIR) spectral data for 2017 hand samples collected the Phase I and II mapping programs.

Table J-1: Hand Sample TerraSpec interpreted mineralogy (The Spectral Assisstant)

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
D00005863	413207.8	6814998	1724.251	RHulstein	RHYc, RHYi	HANDSAMP.253.sco	Phengite	1	NULL	NULL	NULL	0.238	110.84
D00005864	413400.7	6814667	1761.539	RHulstein	RHYi	HANDSAMP.254.sco	Muscovite	0.629	Kaolinite-WX	0.22	Jarosite	0.19	58.446
D00005865	413618.1	6814759	1731.518	RHulstein	RHYi	HANDSAMP.255.sco	Muscovite	0.722	Jarosite	0.278	NULL	0.35	137.39
D00005866	414090.4	6815426	1608.59	RHulstein	grey fissile calcareous qtz-feld-musc phyllite:SLT	HANDSAMP.256.sco	Chlorite-FeMg	0.722	Phengite	0.278	NULL	0.282	166.25
D00005867	412546.5	6813449	2036.731	RHulstein	RHYi	HANDSAMP.257.sco	Muscovite	1	NULL	NULL	NULL	0.0697	127.96
D00005869	412602	6814680	1769.441	RHulstein	RHYi	HANDSAMP.258.sco	MuscoviticIllite	1	NULL	NULL	NULL	0.0448	102.48
D00005870	412377.3	6815033	1737.759	RHulstein	RHYi from slumped outcrop	HANDSAMP.259.sco	Phengite	1	NULL	NULL	NULL	0.192	116.15
D00005871	413869.8	6814846	1691.937	RHulstein	RHYi	HANDSAMP.260.sco	Phengite	1	NULL	NULL	NULL	0.22	115.48
D00005873	414249.7	6814899	1552.61	RHulstein	RHYi - subcrop	HANDSAMP.261.sco	Phengite	0.78	Diaspore	0.22	NULL	0.0971	35.832
D00005911	413259.8	6814757	1752.156	MManor	RHYvx with qtz eyes	HANDSAMP.262.sco	Phengite	1	NULL	NULL	NULL	0.041	81.18
D00005915	413039	6813759	1889.854	MManor	RHYi	HANDSAMP.263.sco	Muscovite	1	NULL	NULL	NULL	0.118	128.71
D00005916	413081.5	6813843	1884.773	MManor	RHYi	HANDSAMP.264.sco	MuscoviticIllite	1	NULL	NULL	NULL	0.0754	134.55
D00005917	413234.2	6814250	1816.427	MManor	RHYi	HANDSAMP.265.sco	Phengite	1	NULL	NULL	NULL	0.167	174.38
D00005919	413402.9	6813597	1714.055	MManor	RHYi	HANDSAMP.266.sco	MuscoviticIllite	0.765	Kaolinite-WX	0.235	NULL	0.117	133.17
D00005922	420909	6816310	1551.98	TNewkirk	Wind Lake(lower) Far east MAFw	HANDSAMP.270.sco	Hornblende	0.513	Epidote	0.487	NULL	0.12	99.789
D00005923	421486.3	6814822	1663.029	TNewkirk	KZK(upper) Far east MDS	HANDSAMP.271.sco	Phengite	1	NULL	NULL	NULL	0.0893	69.175
D00005924	421800.9	6814582	1667.053	TNewkirk	GLPEast GP4F GRA Far east GRA	HANDSAMP.272.sco	Phengite	1	NULL	NULL	NULL	0.22	409.57
D00005925	418425.2	6813727	1617.16	TNewkirk	GLP Middle GRA East GRA	HANDSAMP.273.sco	Phengite	1	NULL	NULL	NULL	0.113	147.97

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
D00005926	418425.3	6813727	1617.15	TNewkirk	GLP Middle GRA East GRA	HANDSAMP.274.sco	Phengite	1	NULL	NULL	NULL	0.144	215.45
D00005927	418170.3	6813868	1642.537	TNewkirk	GLP Middle GRA East GRA	HANDSAMP.275.sco	Phengite	1	NULL	NULL	NULL	0.0632	56.443
D00005928	416593	6814599	1740	TNewkirk	Wind Lake (lower - base) East MAFt	HANDSAMP.276.sco	Chlorite-FeMg	0.849	Phengite	0.151	NULL	0.0893	84.33
D00005929	416146.3	6814300	1721.137	TNewkirk	GLP Upper GRA East GRA	HANDSAMP.277.sco	Phengite	1	NULL	NULL	NULL	0.176	36.373
D00005931	416239.4	6814285	1739.851	TNewkirk	GLP Upper GRA East GRA	HANDSAMP.278.sco	Phengite	1	NULL	NULL	NULL	0.163	234.51
D00005932	418014.3	6815226	1541.97	TNewkirk	Wind Lake(lower) East MAFt	HANDSAMP.279.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.0946	103.68
D00005934	414145	6817925	1476.995	TNewkirk	Wind Lake(middle)Northwest MAFw	HANDSAMP.280.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.13	63.092
D00005935	414141	6817930	1477.164	TNewkirk	Wind Lake (middle) Northwest MAFt	HANDSAMP.281.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.167	265.16
D00005936	414288.4	6817341	1469.976	TNewkirk	Wind Lake(middle)Northwest MAFt	HANDSAMP.282.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.221	381.47
D00005937	414542.4	6816765	1456.149	TNewkirk	Wind Lake(middle)Northwest MAFt	HANDSAMP.283.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.12	171.3
D00005938	414413	6818180	1422.205	TNewkirk	Wind Lake(middle)Northwest MAFt	HANDSAMP.284.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.154	68.634
D00005939	414149.4	6813722	1700.293	TNewkirk	GLP Middle GRA ABM/central GRA	HANDSAMP.285.sco	PhengiticIllite	1	NULL	NULL	NULL	0.117	159.97
D00005940	414278.9	6813818	1664.049	TNewkirk	KZK (middle) ABM/central MAFi	HANDSAMP.286.sco	Hornblende	0.376	Biotite	0.373	Chlorite-FeMg	0.19	54.09

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
D00005941	414591	6813944	1549.951	TNewkirk	GLP Middle GRA ABM/central GRA	HANDSAMP.287.sco	Phengite	1	NULL	NULL	NULL	0.152	310.17
D00005943	414685.9	6814642	1433.313	TNewkirk	KZK (middle)ABM/central MAFt	HANDSAMP.288.sco	Chlorite-FeMg	0.541	Muscovite	0.459	NULL	0.165	192.64
D00005944	409338	6814688	1800	TNewkirk	GLP Middle GRA West INT_F	HANDSAMP.289.sco	Phengite	1	NULL	NULL	NULL	0.17	350.85
D00005945	410011	6810961	1642.067	TNewkirk	Fyre Lake(middle)Southwest MAFt	HANDSAMP.290.sco	Chlorite-FeMg	0.536	Muscovite	0.464	NULL	0.17	148.54
D00005946	409780	6810139	1620.945	TNewkirk	GLP Lower GRA Southwest GRA	HANDSAMP.291.sco	Phengite	1	NULL	NULL	NULL	0.13	214.56
D00005947	410397	6810194	1523.586	TNewkirk	Fyre Lake (lower)Southwest MAFw	HANDSAMP.292.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.226	199.85
D00005948	411772	6812130	1627.298	TNewkirk	Fyre Lake (upper) Southwest MAFw	HANDSAMP.293.sco	Chlorite-FeMg	0.72	Riebeckite	0.28	NULL	0.372	241.48
D00005951	413649	6815592	1749.977	JDePasquale	Wind Lake (lower) ABM/central MAFt	HANDSAMP.294.sco	Chlorite-FeMg	0.806	Phengite	0.194	NULL	0.114	66.626
D00005952	412424	6814361	1792.472	JDePasquale	KZK (middle) West MAFi	HANDSAMP.295.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.0882	108.34
D00005953	411919	6814733	1698.035	JDePasquale	GLPMiddle GRAWestGRA	HANDSAMP.296.sco	Phengite	1	NULL	NULL	NULL	0.103	177.28
D00005954	411797	6814756	1679.273	JDePasquale	GLPMiddle GRAWestGRA	HANDSAMP.297.sco	Phengite	1	NULL	NULL	NULL	0.212	444.96
D00005955	412073	6816375	1542.185	JDePasquale	Wind Lake (lower - base) West MAFt	HANDSAMP.298.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.0953	149.29
MB17-01	414496.1	6815097	1483.094	MBaknes		HANDSAMP.224.sco	Phengite	1	NULL	NULL	NULL	0.147	76.081
MB17-03	414346.1	6815230	1525.998	MBaknes		HANDSAMP.225.sco	Muscovite	1	NULL	NULL	NULL	0.151	150.02

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
MB17-05	414241.4	6814894	1555.921	MBaknes		HANDSAMP.226.sco	Muscovite	0.523	Jarosite	0.477	NULL	0.399	39.083
MB17-13	411358.3	6815606	1677.982	MBaknes		HANDSAMP.227.sco	Phengite	1	NULL	NULL	NULL	0.0973	248.42
MB17-17	410608.1	6816553	1539.812	MBaknes		HANDSAMP.230.sco	Phengite	1	NULL	NULL	NULL	0.104	159.97
MB17-18	413744.9	6814452	1689.324	MBaknes		HANDSAMP.231.sco	Phengite	0.787	Chlorite-Mg	0.213	NULL	0.154	166.05
MB17-21	413221.5	6813979	1831.811	MBaknes		HANDSAMP.234.sco	Montmorillonite	0.538	Paragonite	0.462	NULL	0.133	81.808
MB17-22	415447.6	6815262	1555.512	MBaknes		HANDSAMP.235.sco	Chlorite-Fe	0.546	Phengite	0.454	NULL	0.0926	123.6
MB17-23	415424.4	6815251	1545.482	MBaknes		HANDSAMP.236.sco	Aspectral	1	NULL	NULL	NULL	0.231	342.25
MB17-24	415406.9	6815201	1531.591	MBaknes		HANDSAMP.237.sco	Chlorite-FeMg	0.556	Phengite	0.444	NULL	0.242	152.5
MB17-25	415919.5	6814480	1673.583	MBaknes		HANDSAMP.238.sco	Biotite	1	NULL	NULL	NULL	0.294	121.6
MB17-26	416126.5	6814301	1717.216	MBaknes		HANDSAMP.239.sco	Phengite	1	NULL	NULL	NULL	0.139	144.02
MB17-27	417407.6	6812860	1546.955	MBaknes		HANDSAMP.240.sco	Phengite	1	NULL	NULL	NULL	0.0597	109.61
MB17-29	417240.5	6812847	1577.949	MBaknes		HANDSAMP.242.sco	Phengite	1	NULL	NULL	NULL	0.0969	193.68
MB17-31	412991.6	6813635	1897.784	MBaknes		HANDSAMP.243.sco	Muscovite	1	NULL	NULL	NULL	0.031	151.23
MB17-32	412699	6813191	1950.877	MBaknes		HANDSAMP.244.sco	Phengite	0.677	Siderite	0.323	NULL	0.182	108.38
MB17-33	412551.6	6813447	2037.508	MBaknes		HANDSAMP.245.sco	Muscovite	1	NULL	NULL	NULL	0.139	129.89
MB17-45	411334.6	6811447	1864.596	MBaknes		HANDSAMP.246.sco	Actinolite	0.76	Epidote	0.24	NULL	0.101	126
MB17-47	411788.3	6811406	1821.91	MBaknes		HANDSAMP.247.sco	Hornblende	0.531	Epidote	0.469	NULL	0.167	181.53
MB17-51	421713.2	6815908	1625.412	MBaknes		HANDSAMP.248.sco	Aspectral	1	NULL	NULL	NULL	0.414	260.04
MB17-52	418140.5	6813854	1642.667	MBaknes		HANDSAMP.249.sco	Phengite	1	NULL	NULL	NULL	0.103	127.32
MB17-54	410726.7	6816140	1725.632	MBaknes		HANDSAMP.250.sco	Phengite	1	NULL	NULL	NULL	0.084	150.7
MB17-56	413676.1	6811691	1788.368	MBaknes		HANDSAMP.251.sco	Biotite	0.817	Epidote	0.183	NULL	0.274	124.16
MB17-58	416098.2	6813252	1523.16	MBaknes		HANDSAMP.252.sco	Phengite	1	NULL	NULL	NULL	0.104	149.37
MM17001	413306.5	6814761	1747.585	MManor	RHYva - qtz-ser schist	HANDSAMP.184.sco	Phengite	1	NULL	NULL	NULL	0.065	138.35
MM17003	413488.6	6814696	1750.564	MManor	RHYi	HANDSAMP.186.sco	Phengite	1	NULL	NULL	NULL	0.0565	128.3
MM17004	413585.3	6814651	1743.689	MManor	RHYvl	HANDSAMP.187.sco	Phengite	1	NULL	NULL	NULL	0.0562	126.37
MM17005	413954	6815290	1651.5	MManor	carb mudstone	HANDSAMP.188.sco	Aspectral	1	NULL	NULL	NULL	0.339	149.54

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MM17006	414151.2	6815424	1582.596	MManor	intercalated siltstone and carb mudstone	HANDSAMP.189.sco	Aspectral	1	NULL	NULL	NULL	0.269	291.79
MM17007	412898.8	6814059	1884.451	MManor	RHYv	HANDSAMP.190.sco	Phengite	1	NULL	NULL	NULL	0.0568	131.74
MM17008	414079.3	6814584	1606.405	MManor	ser-altered RHYv	HANDSAMP.191.sco	Phengite	1	NULL	NULL	NULL	0.0747	131.72
MM17009	414078.3	6814586	1607.674	MManor	ms/fuch-altered RHYv	HANDSAMP.192.sco	Phengite	0.79	Chlorite-Mg	0.21	NULL	0.0944	188.7
MM17010	414093	6814628	1612.728	MManor	RHYv	HANDSAMP.193.sco	Chlorite-FeMg	0.765	Muscovite	0.235	NULL	0.133	121.12
MM17011	414131	6814699	1610.466	MManor	MAFt	HANDSAMP.194.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.105	156.57
MM17012	414128	6814698	1611.752	MManor	RHYv	HANDSAMP.197.sco	Chlorite-FeMg	0.564	Phengite	0.436	NULL	0.199	282.18
MM17013	414117.9	6814736	1619.995	MManor	MAFt	HANDSAMP.198.sco	Chlorite-FeMg	0.674	Muscovite	0.326	NULL	0.135	175.44
MM17014	413106.3	6813586	1830.76	MManor	GRApor	HANDSAMP.199.sco	PhengiticIllite	1	NULL	NULL	NULL	0.0426	104.4
MM17015	413723.6	6813685	1670.623	MManor	RHYi	HANDSAMP.200.sco	Phengite	1	NULL	NULL	NULL	0.072	109.03
MM17016	413780.7	6813622	1714.909	MManor	RHYi with sericite alteration	HANDSAMP.201.sco	Muscovite	0.693	Montmorillonite	0.307	NULL	0.162	57.366
MM17017	414595.9	6813943	1548.521	MManor	GRApor	HANDSAMP.202.sco	Phengite	1	NULL	NULL	NULL	0.0755	108.7
MM17018	414564.6	6814085	1542.18	MManor	f gr feldspathic rock with ser-ank-chl alteration	HANDSAMP.203.sco	Phengite	1	NULL	NULL	NULL	0.0791	169.58
MM17019	414568.3	6814090	1541.241	MManor	MAFt?	HANDSAMP.204.sco	Phengite	0.579	Chlorite-FeMg	0.421	NULL	0.153	194.46
MM17020	414579.1	6814135	1534.342	MManor	RHYv	HANDSAMP.205.sco	Muscovite	0.637	Chlorite-FeMg	0.363	NULL	0.143	322.24
MM17021	414627.9	6814343	1490.082	MManor	RHYvl	HANDSAMP.206.sco	Phengite	1	NULL	NULL	NULL	0.065	130.38
MM17022	409687.7	6811242	1697.826	MManor	MAFi	HANDSAMP.207.sco	Actinolite	0.426	Chlorite-FeMg	0.397	Epidote	0.164	105.58
MM17023	409688.6	6811242	1697.401	MManor	MAFt	HANDSAMP.208.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.104	117.71
MM17024	409679.2	6811255	1702.748	MManor	GRApor	HANDSAMP.209.sco	Phengite	1	NULL	NULL	NULL	0.0852	235.4
MM17025	409652.6	6811154	1714.234	MManor	MAFi	HANDSAMP.210.sco	Chlorite-FeMg	0.763	Epidote	0.237	NULL	0.18	152.49
MM17026	416628.6	6814007	1740	MManor	RHYc?	HANDSAMP.211.sco	Phengite	1	NULL	NULL	NULL	0.0803	172.95

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
MM17027	418010.8	6815320	1525.535	MManor	MAFw with ep-act-carb-garnet?	HANDSAMP.212.sco	Epidote	0.476	Riebeckite	0.282	Calcite	0.102	85.465
MM17028	418015.1	6815191	1550.185	MManor	RHYv	HANDSAMP.213.sco	Phengite	1	NULL	NULL	NULL	0.0632	127.92
MM17029	418022.1	6815307	1525.807	MManor	MAFt	HANDSAMP.214.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.132	278.13
MM17030	421586	6814626	1653.211	MManor	RHYvx? with <15mm fspar phenos	HANDSAMP.215.sco	Phengite	1	NULL	NULL	NULL	0.132	345.74
MM17031	421731.3	6814533	1651.485	MManor	fspar-qtz porphyry (GRApor/RHYif) OR RHYvx	HANDSAMP.216.sco	Phengite	1	NULL	NULL	NULL	0.108	211.85
MM17032	421175.7	6814832	1624.349	MManor	RHYv with RHYvx and RHYvl	HANDSAMP.217.sco	Phengite	1	NULL	NULL	NULL	0.0471	108.82
MM17033	421155.3	6814853	1621.694	MManor	SLT?	HANDSAMP.218.sco	Phengite	1	NULL	NULL	NULL	0.0631	141.09
MM17034	421136.8	6814828	1612.017	MManor	RHYvx-RHYvl?	HANDSAMP.219.sco	Phengite	1	NULL	NULL	NULL	0.0479	107.33
MM17035	421125.1	6814822	1606.876	MManor	RHYvx	HANDSAMP.220.sco	Phengite	1	NULL	NULL	NULL	0.0761	162.11
MM17036	412074.1	6816374	1542.694	MManor	fspar mafic crystal tuff (MAFt)	HANDSAMP.221.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.116	152.27
RH17008	413719	6813616	1704.747		biot-feldspar schist, 3% pyrrhotite	HANDSAMP.001.sco	Phengite	1	NULL	NULL	NULL	0.0773	134.97
RH17009	413726.9	6813623	1704.538		MDS with cordierite	HANDSAMP.002.sco	Phengite	1	NULL	NULL	NULL	0.284	777.06
RH17010	414145.1	6813697	1709.931		pelite with bedding and feldspar crystals	HANDSAMP.003.sco	Phengite	0.766	Biotite	0.234	NULL	0.259	155.18
RH17011	414145	6813711	1704.366		RHYif, feld and qtz phenos	HANDSAMP.004.sco	Phengite	1	NULL	NULL	NULL	0.0595	105.06
RH17012	414280.7	6813818	1663.746		MAFI	HANDSAMP.005.sco	Hornblende	0.551	Chlorite-FeMg	0.449	NULL	0.21	172.74
RH17014	414302.7	6814016	1597.302		RHYif, feld & qtz phenos	HANDSAMP.007.sco	Phengite	1	NULL	NULL	NULL	0.087	186.62
RH17015	413523.6	6813692	1670.937		RHYi	HANDSAMP.006.sco	Muscovite	1	NULL	NULL	NULL	0.0956	103.74
RH17016	413630.7	6813898	1682.145		RHYc	HANDSAMP.008.sco	Kaolinite-WX	0.473	Paragonite	0.312	Calcite	0.177	64.415

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
RH17018	414562.2	6813858	1569.113		rhyi	HANDSAMP.009.sco	Phengite	0.842	Dickite	0.158	NULL	0.181	60.073
RH17019	414547.2	6813561	1619.459		rhyc	HANDSAMP.010.sco	Phengite	1	NULL	NULL	NULL	0.0526	73.599
RH17022	414595	6812942	1650.769		rhyvl	HANDSAMP.011.sco	Phengite	1	NULL	NULL	NULL	0.0851	170.2
RH17024	414560.2	6812882	1651.593		pel	HANDSAMP.012.sco	Phengite	1	NULL	NULL	NULL	0.26	167.59
RH17027	410504	6812944	2038.523		RHYv	HANDSAMP.013.sco	Phengite	1	NULL	NULL	NULL	0.0662	109.57
RH17028	410501.9	6812956	2034.367		RHYc	HANDSAMP.014.sco	Phengite	1	NULL	NULL	NULL	0.0376	76.205
RH17030	410500.4	6812987	2023.903			HANDSAMP.015.sco	Phengite	1	NULL	NULL	NULL	0.198	479.5
RH17031	410478.9	6813007	2018.717		RHYv	HANDSAMP.016.sco	Phengite	1	NULL	NULL	NULL	0.0463	68.906
RH17032	410402.4	6813289	1964.763		RHYv	HANDSAMP.017.sco	Phengite	1	NULL	NULL	NULL	0.0866	164.79
RH17033	410379.5	6813499	1908.473		RHYv	HANDSAMP.018.sco	Phengite	1	NULL	NULL	NULL	0.0975	171.15
RH17035	410359.2	6813561	1903.578		RHYv	HANDSAMP.019.sco	Phengite	1	NULL	NULL	NULL	0.0914	133.95
RH17036	410345.7	6813654	1893.826			HANDSAMP.020.sco	Phengite	1	NULL	NULL	NULL	0.0746	173.25
RH17037	410166.8	6813790	1826.155			HANDSAMP.021.sco	Biotite	0.757	Epidote	0.243	NULL	0.409	151.38
RH17038	410177	6813822	1823.314		RHYvq qtz eye tuff	HANDSAMP.022.sco	Phengite	1	NULL	NULL	NULL	0.183	421.21
RH17039	410119.2	6813912	1822.238		slt	HANDSAMP.023.sco	Phengite	1	NULL	NULL	NULL	0.207	127.09
RH17040	410113.4	6813944	1825.178			HANDSAMP.024.sco	Muscovite	0.514	Chlorite-Fe	0.486	NULL	0.217	173.36
RH17041	410109.3	6813988	1825.806			HANDSAMP.025.sco	Phengite	1	NULL	NULL	NULL	0.153	288.42
RH17042	410073.7	6814032	1832.143			HANDSAMP.026.sco	Phengite	0.709	Chlorite-FeMg	0.291	NULL	0.203	178.52
RH17043	410060.4	6814056	1836.142			HANDSAMP.027.sco	Phengite	1	NULL	NULL	NULL	0.269	98.6
RH17044	410043.8	6814075	1840		RHYvq	HANDSAMP.028.sco	Phengite	0.737	Wood	0.263	NULL	0.159	177.69
RH17045	410037.9	6814082	1840			HANDSAMP.029.sco	Chlorite-FeMg	0.526	Phengite	0.474	NULL	0.301	117.89
RH17046	410023.9	6814115	1840			HANDSAMP.030.sco	Muscovite	1	NULL	NULL	NULL	0.0909	202.05
RH17047	410006	6814149	1840		PEL	HANDSAMP.031.sco	Biotite	0.805	Hornblende	0.195	NULL	0.328	170.51
RH17048	409974.2	6814186	1840		RHYvq	HANDSAMP.032.sco	Phengite	1	NULL	NULL	NULL	0.113	116.52
RH17049	409952.6	6814211	1840			HANDSAMP.033.sco	Phengite	1	NULL	NULL	NULL	0.0443	100.32
RH17050	409939.9	6814222	1840			HANDSAMP.034.sco	Phengite	1	NULL	NULL	NULL	0.128	299.95

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
RH17051	409905	6814253	1840			HANDSAMP.035.sco	Phengite	1	NULL	NULL	NULL	0.0286	62.193
RH17052	409851.9	6814303	1840			HANDSAMP.036.sco	Phengite	1	NULL	NULL	NULL	0.106	247.05
RH17053	409803.1	6814338	1840			HANDSAMP.037.sco	Phengite	1	NULL	NULL	NULL	0.133	303.99
RH17055	409495.6	6814582	1803.311		RHYif	HANDSAMP.038.sco	Phengite	1	NULL	NULL	NULL	0.0917	242.97
RH17056	409401.1	6814642	1800		PEL	HANDSAMP.039.sco	Phengite	1	NULL	NULL	NULL	0.248	92.996
RH17058	409234.5	6814805	1789.95		RHYif	HANDSAMP.040.sco	Phengite	1	NULL	NULL	NULL	0.0812	160.3
RH17059	409220.5	6814818	1789.247		RHYvq	HANDSAMP.041.sco	Phengite	1	NULL	NULL	NULL	0.0804	121.5
RH17060	409192	6814854	1785.549		RHYvfq	HANDSAMP.042.sco	Phengite	1	NULL	NULL	NULL	0.159	326.09
RH17061	409151.1	6814893	1781.754			HANDSAMP.043.sco	Phengite	0.776	Chlorite-Fe	0.224	NULL	0.171	226.01
RH17062	409114.7	6814926	1773.922			HANDSAMP.044.sco	Chlorite-FeMg	0.712	Phengite	0.288	NULL	0.382	370.82
RH17063	409085.9	6814956	1767.355			HANDSAMP.045.sco	Chlorite-FeMg	0.656	Biotite	0.344	NULL	0.135	22.387
RH17064	409058.5	6814983	1764.208			HANDSAMP.046.sco	Phengite	1	NULL	NULL	NULL	0.0856	127.01
RH17065	409069	6814972	1765.273			HANDSAMP.047.sco	Phengite	1	NULL	NULL	NULL	0.0756	174.86
RH17066	409015.7	6815015	1761.906			HANDSAMP.048.sco	Phengite	1	NULL	NULL	NULL	0.107	262.57
RH17067	409000.7	6815025	1761.232			HANDSAMP.049.sco	Phengite	1	NULL	NULL	NULL	0.134	318.36
RH17068	408896.4	6815145	1733.798			HANDSAMP.050.sco	Phengite	0.574	Wood	0.426	NULL	0.402	84.577
RH17069	408782.6	6815220	1732.663			HANDSAMP.051.sco	Phengite	1	NULL	NULL	NULL	0.0825	158.95
RH17070	408674.1	6815343	1720.663			HANDSAMP.052.sco	Phengite	1	NULL	NULL	NULL	0.193	169.84
RH17071	408648.3	6815408	1702.257			HANDSAMP.053.sco	Phengite	1	NULL	NULL	NULL	0.149	356.77
RH17072	408640.4	6815456	1683.932		qtz feld-musc schist with <5% 5 mm qtz eyes.	HANDSAMP.054.sco	Phengite	0.766	Wood	0.234	NULL	0.171	204
RH17073	408598.5	6815499	1678.419			HANDSAMP.055.sco	Phengite	1	NULL	NULL	NULL	0.0896	165.58
RH17074	408520.6	6815530	1683.669			HANDSAMP.059.sco	Phengite	1	NULL	NULL	NULL	0.105	218.03
RH17075	422519.2	6818492	1437.267		MDSc	HANDSAMP.060.sco	Aspectral	1	NULL	NULL	NULL	0.242	1000
RH17076	423367	6818612	1540.988		quartzite	HANDSAMP.061.sco	Muscovite	1	NULL	NULL	NULL	0.24	94.257

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
RH17078	423625.8	6818219	1633.529		MDSc with sandst lenses	HANDSAMP.062.sco	Aspectral	1	NULL	NULL	NULL	0.214	142.11
RH17079	424426.2	6817603	1564.506		MAFi	HANDSAMP.063.sco	Hornblende	0.49	Chlorite-FeMg	0.268	Epidote	0.131	113.45
RH17081	424926.9	6817679	1540		tan - dark grey banded sandstone - siltstone	HANDSAMP.064.sco	Tremolite	1	NULL	NULL	NULL	0.222	100.67
RH17082	425102.7	6817649	1540		MAFt	HANDSAMP.065.sco	Hornblende	0.712	Epidote	0.288	NULL	0.0884	118.9
RH17083	425130.7	6817596	1535.922			HANDSAMP.066.sco	Calcite	1	NULL	NULL	NULL	0.292	24.555
RH17084	425247.7	6817576	1532.805		dark grey siltstone	HANDSAMP.067.sco	Aspectral	1	NULL	NULL	NULL	0.233	306.97
RH17085	425764.9	6817242	1520		MAFt	HANDSAMP.068.sco	Chlorite-FeMg	0.573	Hornblende	0.275	Epidote	0.166	75.426
RH17086	425944.3	6817165	1520			HANDSAMP.069.sco	Aspectral	1	NULL	NULL	NULL	0.247	1000
RH17087	426223.8	6817109	1478.224		SDS - SLT with crb bands	HANDSAMP.070.sco	Muscovite	1	NULL	NULL	NULL	0.0621	173.16
RH17088	416530.9	6813853	1740		rhyv, silic, fine grained granular, rare ash, lpl	HANDSAMP.071.sco	Phengite	1	NULL	NULL	NULL	0.076	154.13
RH17089	416587.5	6814599	1740		MAFt	HANDSAMP.072.sco	Chlorite-FeMg	0.764	Phengite	0.236	NULL	0.101	106.79
RH17090	416912.4	6814732	1715.637		MDS	HANDSAMP.073.sco	Aspectral	1	NULL	NULL	NULL	0.314	333.98
RH17091	416872.7	6814683	1721.068			HANDSAMP.074.sco	Chlorite-FeMg	0.597	Phengite	0.247	Ankerite	0.215	111.38
RH17092	417016.8	6814775	1702.576		RHYvx with blue qtz eyes	HANDSAMP.075.sco	Aspectral	1	NULL	NULL	NULL	0.265	243.54
RH17093	417127	6814869	1686.641		RHY: RHYv (rare qtz eye-feld) or Felsite? sill?	HANDSAMP.076.sco	Phengite	0.743	Biotite	0.257	NULL	0.1	148.96
RH17094	418045.5	6814465	1636.132			HANDSAMP.077.sco	Phengite	0.553	Calcite	0.447	NULL	0.248	130.98
RH17095	418067.3	6814500	1628.156			HANDSAMP.078.sco	Phengite	1	NULL	NULL	NULL	0.104	125.05
RH17097	416942.1	6816123	1520.388		MDSc	HANDSAMP.079.sco	Aspectral	1	NULL	NULL	NULL	0.263	445.84
RH17098	413330.9	6814662	1763.786		RHYi	HANDSAMP.080.sco	Muscovite	0.819	Jarosite	0.181	NULL	0.116	84.188
RH17099	413206.6	6814692	1763.883		RHY	HANDSAMP.081.sco	Phengite	1	NULL	NULL	NULL	0.0451	84.099

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
RH17100	413403.2	6814690	1757.636		musc - sericite alt RHY	HANDSAMP.082.sco	Phengite	1	NULL	NULL	NULL	0.0865	163.93
RH17102	412762.4	6814975	1735.149		MDSc float	HANDSAMP.084.sco	Aspectral	1	NULL	NULL	NULL	0.34	483.31
RH17103	412330.4	6814947	1740.485		SLT with crb (or MDSc with not a lot of crb)	HANDSAMP.085.sco	Vegetation-Dry	1	NULL	NULL	NULL	0.192	197.55
RH17104	412074.9	6814694	1715.596		RHYvl - ash	HANDSAMP.086.sco	Phengite	1	NULL	NULL	NULL	0.12	297.2
RH17105	411923.8	6814735	1699.102		GRA: Feld - qtz rhy porphyry, micaceous	HANDSAMP.087.sco	Phengite	1	NULL	NULL	NULL	0.0489	80.415
RH17107	411800.3	6814759	1680.155		GRA	HANDSAMP.089.sco	Phengite	1	NULL	NULL	NULL	0.137	369.21
RH17108	410890.5	6815206	1621.444		MDSt	HANDSAMP.090.sco	Phengite	1	NULL	NULL	NULL	0.258	61.733
RH17109	410759.7	6815038	1545.137		rusty musc phyllite	HANDSAMP.091.sco	Phengite	0.734	Chlorite-FeMg	0.266	NULL	0.113	160.87
RH17110	410393.3	6815213	1516.476		RHYvx (QE)	HANDSAMP.092.sco	Phengite	1	NULL	NULL	NULL	0.149	337.45
RH17111	410037.3	6815478	1494.723		MAFt	HANDSAMP.093.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.117	171.84
RH17112	417549.8	6814179	1623.936			HANDSAMP.094.sco	Phengite	1	NULL	NULL	NULL	0.0777	124.4
RH17113	417593.3	6814100	1605.252		grey finer grained well fol GRA below corse POR	HANDSAMP.095.sco	Phengite	1	NULL	NULL	NULL	0.0715	157.97
RH17114	417629.1	6814055	1590.904			HANDSAMP.096.sco	Phengite	1	NULL	NULL	NULL	0.121	250.42
RH17115	417695.7	6813655	1563.54		GRA, Feld porph qtz musc biot schist	HANDSAMP.097.sco	Biotite	0.778	Hornblende	0.222	NULL	0.393	288.16
RH17116	417695.3	6813581	1556.263		GRA, feld phyric, rounded felds.	HANDSAMP.098.sco	Phengite	1	NULL	NULL	NULL	0.0513	76.736
RH17118	411747.1	6812339	1587.96		MAFw	HANDSAMP.101.sco	Chlorite-FeMg	0.692	Phlogopite	0.308	NULL	0.335	147.96
RH17119	411692.7	6812367	1598.57		finely lam sltst	HANDSAMP.102.sco	Phengite	0.669	Chlorite-FeMg	0.331	NULL	0.151	460.11
RH17120	411287	6812153	1703.244			HANDSAMP.103.sco	MuscoviticIllite	0.579	Montmorillonite	0.421	NULL	0.141	126.26
RH17121	411228.9	6812161	1708.321			HANDSAMP.104.sco	Phengite	1	NULL	NULL	NULL	0.0646	131.99

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
RH17122	411061.8	6812548	1796.699			HANDSAMP.105.sco	Phengite	0.666	Chlorite-Fe	0.334	NULL	0.138	93.476
RH17123	411559.4	6815492	1734.585		RHYvl	HANDSAMP.106.sco	Phengite	1	NULL	NULL	NULL	0.156	162.65
RH17124	411990.5	6815891	1640.252		RHYvx	HANDSAMP.107.sco	Phengite	1	NULL	NULL	NULL	0.33	403.41
RH17125	411925.3	6815675	1707.335		RHYvl	HANDSAMP.108.sco	Phengite	0.713	Vegetation-Dry	0.287	NULL	0.123	194.75
RH17126	413648.1	6815590	1749.851	RHulstein	MAFt	HANDSAMP.109.sco	Chlorite-Fe	1	NULL	NULL	NULL	0.128	183.09
RH17127	413177.3	6815013	1723.638	RHulstein	RHY; RHYi - RHYv (lpl and ash)	HANDSAMP.110.sco	Muscovite	1	NULL	NULL	NULL	0.0745	122.91
RH17128	413237.1	6814623	1772.378	RHulstein	RHYv	HANDSAMP.111.sco	Phengite	1	NULL	NULL	NULL	0.0814	267.04
RH17129	413456.8	6814713	1749.703	RHulstein	RHYv, banded ash?	HANDSAMP.112.sco	Phengite	1	NULL	NULL	NULL	0.0735	169.38
RH17130	414000.5	6815332	1637.05	RHulstein	grey fissile calcareous qtz-feld-musc phyllite	HANDSAMP.113.sco	Vegetation-Dry	0.565	Ankerite	0.435	NULL	0.437	77.061
RH17131	414081.3	6815399	1611.203	RHulstein	grey fissile calcareous qtz-feld-musc phyllite	HANDSAMP.114.sco	Aspectral	1	NULL	NULL	NULL	0.342	652.76
RH17132	414243.1	6815492	1552.684	RHulstein	qtz-feld porphyry	HANDSAMP.115.sco	Phengite	1	NULL	NULL	NULL	0.0616	105.68
RH17133	412456.2	6813791	1961.529	RHulstein	MDSc and Qtz vein (-Qtzite?)	HANDSAMP.116.sco	Aspectral	1	NULL	NULL	NULL	0.606	198.49
RH17134	412422.7	6814355	1794.179	RHulstein	float of MAFi	HANDSAMP.117.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.0771	103.85
RH17135	412571.9	6814618	1774.535	RHulstein	RHYi float	HANDSAMP.118.sco	Phengite	1	NULL	NULL	NULL	0.0487	104.59
RH17136	412517.1	6814966	1741.526	RHulstein	RHYc?	HANDSAMP.119.sco	Phengite	0.85	Kaolinite-WX	0.15	NULL	0.123	80.997
RH17137	413938.1	6815152	1651.466	RHulstein	RHYv - outcrop	HANDSAMP.120.sco	Phengite	1	NULL	NULL	NULL	0.101	66.415
RH17138	414298.1	6814875	1544.736	RHulstein	MAFt	HANDSAMP.121.sco	Chlorite-FeMg	0.582	Phengite	0.418	NULL	0.152	215.2
RH17139	413548.4	6813602	1679.244	RHulstein	RHYcf;	HANDSAMP.122.sco	Phengite	1	NULL	NULL	NULL	0.0494	85.274
RH17140	413898.5	6813086	1662.241	RHulstein	RHYi	HANDSAMP.123.sco	Phengite	1	NULL	NULL	NULL	0.255	96.932
RH17141	413572.2	6813526	1701.812	RHulstein	RHYv	HANDSAMP.124.sco	Muscovite	1	NULL	NULL	NULL	0.157	244.58

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
RH17142	413608.3	6813548	1693.498	RHulstein	RHYi	HANDSAMP.125.sco	Phengite	0.798	Jarosite	0.202	NULL	0.304	135.62
RH17143	413626.3	6813548	1696.211	RHulstein	RHYi	HANDSAMP.126.sco	MuscoviticIllite	1	NULL	NULL	NULL	0.0944	92.584
RH17144	413672.4	6813582	1699.077	RHulstein	RHYi outcrop	HANDSAMP.127.sco	Muscovite	0.617	Montmorillonite	0.212	Ankerite	0.093	81.43
RH17145	413717.8	6813617	1704.313	RHulstein	float -RHYv	HANDSAMP.128.sco	Muscovite	1	NULL	NULL	NULL	0.0698	158.53
RH17146	414299.9	6814060	1582.125	RHulstein	WCK	HANDSAMP.129.sco	Muscovite	0.583	Chlorite-Fe	0.417	NULL	0.144	312.04
RH17147	414352.6	6814143	1559.137	RHulstein	MAFt outcrop	HANDSAMP.130.sco	Chlorite-Fe	0.568	Muscovite	0.432	NULL	0.168	412.5
RH17148	414389.4	6814158	1557.633	RHulstein	MAFt outcrop	HANDSAMP.132.sco	Phengite	0.673	Vegetation-Dry	0.327	NULL	0.122	130.19
RH17149	414370.3	6814149	1559.173	RHulstein	RHYv (possible ash and lpl?): qtz musc schist	HANDSAMP.133.sco	Phengite	1	NULL	NULL	NULL	0.0469	80.886
RH17150	414407.1	6814199	1544.256	RHulstein	RHYv subcrop	HANDSAMP.134.sco	Phengite	1	NULL	NULL	NULL	0.0673	114.62
RH17151	414406.3	6814309	1506.114	RHulstein	RHYv	HANDSAMP.135.sco	Phengite	1	NULL	NULL	NULL	0.0764	160.03
RH17152	414631.9	6814342	1489.795	RHulstein	RHYv	HANDSAMP.136.sco	Phengite	0.835	Ankerite	0.165	NULL	0.146	139.07
RH17153	414680.2	6814643	1434.661	RHulstein	MAFt	HANDSAMP.137.sco	Muscovite	0.537	Chlorite-FeMg	0.463	NULL	0.175	281.46
RH17154	410006.7	6810964	1642.924	RHulstein	PEL-MAFt	HANDSAMP.138.sco	Biotite	1	NULL	NULL	NULL	0.361	330.48
RH17155	409999.4	6810984	1643.673	RHulstein	GRA-POR	HANDSAMP.139.sco	Biotite	0.646	Chlorite-FeMg	0.354	NULL	0.208	121.33
RH17156	409617.8	6811144	1736.277	RHulstein	MAFw or MAFi (fine grained)	HANDSAMP.140.sco	Chlorite-FeMg	0.845	Hornblende	0.155	NULL	0.176	153.08
RH17157	410214.7	6810063	1546.202	RHulstein	PEL	HANDSAMP.141.sco	Aspectral	1	NULL	NULL	NULL	0.381	586.37
RH17159	410388.8	6810148	1515.654	RHulstein	MAF(w?) outcrop	HANDSAMP.142.sco	Hornblende	0.566	Biotite	0.434	NULL	0.234	214.84
RH17160	410393.4	6810194	1524.863	RHulstein	MAF breccia outcrop	HANDSAMP.143.sco	Chlorite-FeMg	0.716	Calcite	0.284	NULL	0.113	159.57
RH17161	416855.5	6814348	1715.067	RHulstein	RHYv	HANDSAMP.144.sco	Phengite	0.532	Vegetation-Dry	0.468	NULL	0.139	149.44
RH17162	416908.3	6814203	1710.631	RHulstein	GRA POR	HANDSAMP.145.sco	Phengite	1	NULL	NULL	NULL	0.112	233.49
RH17163	417076.2	6814047	1689.052	RHulstein	RHYvl	HANDSAMP.146.sco	Phengite	1	NULL	NULL	NULL	0.126	323.14
RH17164	417181.7	6813971	1670.79	RHulstein	RHYvx	HANDSAMP.150.sco	Phengite	1	NULL	NULL	NULL	0.0518	92.941
RH17165	417227.2	6813844	1666.831	RHulstein	RHYv	HANDSAMP.151.sco	Phengite	1	NULL	NULL	NULL	0.104	240.81

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
RH17166	418246.3	6814455	1598.815	RHulstein	RHYvl	HANDSAMP.152.sco	Vegetation-Dry	0.504	Phengite	0.496	NULL	0.116	88.738
RH17167	418309.8	6814666	1553.38	RHulstein	RHYvl	HANDSAMP.153.sco	Phengite	1	NULL	NULL	NULL	0.111	174.18
RH17168	418259.5	6814942	1530.739	RHulstein	SLT - SDS - crb	HANDSAMP.154.sco	Phengite	1	NULL	NULL	NULL	0.304	271.38
RH17169	418142.1	6815086	1542.022	RHulstein	RHYvl	HANDSAMP.155.sco	Phengite	1	NULL	NULL	NULL	0.0876	113.94
RH17170	418166.9	6814678	1590.759	RHulstein	MAFt	HANDSAMP.156.sco	Phengite	1	NULL	NULL	NULL	0.109	256.45
RH17171	418202.2	6815068	1526.966	RHulstein	SDS - 5+% biot	HANDSAMP.157.sco	Chlorite-Fe	1	NULL	NULL	NULL	0.134	110.5
RH17172	422373.8	6813548	1661.032	RHulstein	RHYvl	HANDSAMP.158.sco	Phengite	1	NULL	NULL	NULL	0.0922	133.9
RH17173	422019.6	6813972	1608.779	RHulstein	RHYvx	HANDSAMP.159.sco	Phengite	1	NULL	NULL	NULL	0.0639	94.749
RH17174	421964	6814018	1610.134	RHulstein	GRA - POR	HANDSAMP.160.sco	Phengite	1	NULL	NULL	NULL	0.0542	90.067
RH17175	421008.3	6814771	1549.225	RHulstein	GRA POR	HANDSAMP.161.sco	Phengite	1	NULL	NULL	NULL	0.208	363.14
RH17176	421017.3	6815259	1584.561	RHulstein	RHYvx	HANDSAMP.162.sco	Phengite	1	NULL	NULL	NULL	0.246	167.82
RH17178	420260.9	6814293	1300.525	RHulstein	magnetite ultramafic	HANDSAMP.164.sco	Serpentine	1	NULL	NULL	NULL	0.294	132.62
RH17179	418731.2	6813359	1499.234	RHulstein	RHYv with biot	HANDSAMP.165.sco	Phengite	1	NULL	NULL	NULL	0.283	452.29
RH17180	418791.1	6813263	1455.424	RHulstein	RHYvx feld phenos	HANDSAMP.166.sco	Phengite	1	NULL	NULL	NULL	0.0265	44.419
RH17181	418868.1	6813193	1421.087	RHulstein	RHYvl with biot	HANDSAMP.167.sco	Phengite	1	NULL	NULL	NULL	0.0807	183.72
RH17182	418895.3	6813141	1400.267	RHulstein	RHYvx 8% 2-3mm blue qtz eyes	HANDSAMP.168.sco	Phengite	1	NULL	NULL	NULL	0.147	280.39
RH17190	410243.6	6810169	1572.208	RHulstein	GRA POR	HANDSAMP.173.sco	Phengite	1	NULL	NULL	NULL	0.0983	193.38
RH17191	410237.5	6810110	1557.892	RHulstein	MAFt and RHYv	HANDSAMP.174.sco	Chlorite-FeMg	0.703	Biotite	0.297	NULL	0.162	239.36
RH17193	410827.7	6810209	1452.401	RHulstein	pyritic MAF	HANDSAMP.176.sco	Hornblende	0.701	Epidote	0.299	NULL	0.199	92.796
RH17194	414004.1	6814680	1656.2	RHulstein	RHYv	HANDSAMP.177.sco	Muscovite	1	NULL	NULL	NULL	0.0832	196.02
RH17195	414044.2	6814629	1634.136	RHulstein	MDS and musc alt RHY	HANDSAMP.178.sco	Muscovite	1	NULL	NULL	NULL	0.123	107.08
RH17196	414097.1	6814648	1615.801	RHulstein	musc-cord alt RHY	HANDSAMP.179.sco	Muscovite	1	NULL	NULL	NULL	0.201	26.878
RH17197	414112.9	6814655	1610.137	RHulstein	siliceous RHY with specks mal	HANDSAMP.180.sco	Muscovite	1	NULL	NULL	NULL	0.104	266.61

Sample_ID	EASTING	NORTHING	RL	Sampler	Comments	Spectra File	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Min3 sTSAS	NIL_Stat sTSAS	Error sTSAS
RH17198	414113.2	6814668	1612.812	RHulstein	siliceous alt RHY with mal	HANDSAMP.181.sco	Phengite	0.56	Chlorite-FeMg	0.44	NULL	0.238	191.7
RH17199	414151.8	6814734	1604.193	RHulstein	mineralized MAF	HANDSAMP.182.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.185	96.256
RH17200	414210	6814744	1576.508	RHulstein	MAFt with ankerite, clasts	HANDSAMP.183.sco	Chlorite-FeMg	1	NULL	NULL	NULL	0.0855	110.28

Table J-2: Hand sample TerraSpec spectral features

Sample_ID	Width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350	sericite xtal	kaol xtal
D00005863	NULL	NULL	1537.57	0.00319	1934.03	41.351	0.0824	2212.11	31.449	0.1	NULL	NULL	NULL	2342.86	35.451	0.0294	1.214	0.981
D00005864	NULL	NULL	NULL	NULL	1913.46	39.139	0.0857	2206.64	29.073	0.16	2258.51	16.472	0.044	2343.18	34.244	0.0278	1.866	0.959
D00005865	NULL	NULL	NULL	NULL	1932.33	45.496	0.17	2203.22	32.242	0.126	2259.19	14.474	0.0585	2343.53	32.893	0.0156	0.742	0.974
D00005866	NULL	NULL	1562.16	0.00292	1944.46	40.019	0.0347	2215.44	32.425	0.0448	2254.28	17.657	0.0793	2353.23	34.287	0.0828	1.29	0.992
D00005867	NULL	NULL	1547.92	0.00365	1912.2	35.16	0.0949	2207.05	32.362	0.308	NULL	NULL	NULL	2347.56	37.375	0.156	3.247	0.912
D00005869	NULL	NULL	1553.73	0.00107	1910.54	33.797	0.11	2205.61	32.764	0.361	NULL	NULL	NULL	2349.02	38.33	0.2	3.288	0.875
D00005870	NULL	NULL	1539.31	0.00773	1933.71	47.348	0.0555	2216.86	31.043	0.103	NULL	NULL	NULL	2349.22	36.738	0.0536	1.85	0.986
D00005871	NULL	NULL	NULL	NULL	1922.62	42.442	0.191	2211.42	30.598	0.16	NULL	NULL	NULL	2345.69	33.319	0.0511	0.838	0.964
D00005873	NULL	NULL	NULL	NULL	1911.28	36.248	0.0939	2210.21	31.055	0.128	2243.89	16.51	0.0468	2349.7	33.752	0.0456	1.363	0.973
D00005911	NULL	NULL	1547.3	0.00149	1911.95	34.529	0.118	2211.49	32.258	0.288	NULL	NULL	NULL	2350.15	36.187	0.15	2.447	0.942
D00005915	NULL	NULL	NULL	NULL	1914.52	37.746	0.179	2205.62	29.924	0.202	NULL	NULL	NULL	2347.03	35.576	0.0795	1.128	0.945
D00005916	NULL	NULL	1538.01	0.00528	1910.29	32.316	0.179	2206.71	31.768	0.25	NULL	NULL	NULL	2347.86	37.078	0.12	1.398	0.925
D00005917	NULL	NULL	NULL	NULL	1913.86	39.288	0.0773	2210.22	30.762	0.11	NULL	NULL	NULL	2350.68	36.647	0.0422	1.424	0.987
D00005919	NULL	NULL	NULL	NULL	1911.24	34.449	0.225	2199.08	34.413	0.279	NULL	NULL	NULL	2347.04	38.944	0.1	1.239	0.886
D00005922	NULL	NULL	1548.24	0.0349	1914.26	36.779	0.0985	NULL	NULL	NULL	2253.93	19.188	0.234	2335.6	39.285	0.411	NULL	0.993
D00005923	17.338	0.000825	1540.75	0.000512	1921.44	32.498	0.0158	2210.54	31.692	0.158	NULL	NULL	NULL	2355.91	37.003	0.0899	9.944	0.97
D00005924	18.364	0.0185	1542.21	0.0176	1916.77	34.045	0.0445	2219.11	32.867	0.265	NULL	NULL	NULL	2346.24	38.536	0.181	5.954	0.954
D00005925	NULL	NULL	1540.71	0.00896	1917.09	35.923	0.0327	2214.68	35.076	0.295	NULL	NULL	NULL	2346.64	40.051	0.185	8.993	0.921
D00005926	19.023	0.0143	1556.17	0.0133	1917.84	30.454	0.0211	2215.74	34.346	0.239	NULL	NULL	NULL	2344.76	39.8	0.149	11.326	0.944
D00005927	NULL	NULL	1554.98	0.000452	1915.06	37.596	0.11	2210.92	33.294	0.277	NULL	NULL	NULL	2349.97	37.511	0.164	2.506	0.937
D00005928	NULL	NULL	1545.4	0.0141	NULL	NULL	NULL	2213.8	34.718	0.0468	2255.84	20.289	0.125	2341.96	37.098	0.146	NULL	0.992
D00005929	17.307	0.00504	1539.52	0.0059	1919.25	33.568	0.019	2221.18	29.227	0.0891	2241.95	18.678	0.0466	2341.6	37.465	0.0518	4.687	0.987
D00005931	NULL	NULL	NULL	NULL	1922.44	38.464	0.0367	2219.57	31.958	0.27	NULL	NULL	NULL	2349.98	38.776	0.186	7.372	0.961
D00005932	NULL	NULL	1553.48	0.0374	NULL	NULL	NULL	NULL	NULL	NULL	2252.63	19.345	0.242	2338.01	31.849	0.237	NULL	1.001
D00005934	NULL	NULL	1550.48	0.00551	1952.36	20.006	0.0239	NULL	NULL	NULL	2255.45	19.677	0.108	2337.28	35.564	0.0999	NULL	0.996

Sample_ID	Width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350	sericite xtal	kaol xtal
D00005935	10.188	0.00138	1558.13	0.00339	1958.24	30.508	0.0246	NULL	NULL	NULL	2257.26	20.417	0.112	2349.09	36.747	0.112	NULL	0.997
D00005936	NULL	NULL	1565.19	0.00588	1919.9	31.051	0.0224	NULL	NULL	NULL	2257.12	19.053	0.104	2349.8	34.799	0.0924	NULL	0.993
D00005937	11.174	0.00109	1564.6	0.00804	1959.89	21.497	0.0216	NULL	NULL	NULL	2256.77	20.584	0.141	2356.25	37.885	0.133	NULL	0.995
D00005938	NULL	NULL	1552.71	0.00604	1957.11	18.107	0.0199	NULL	NULL	NULL	2255.02	20.36	0.106	2347.48	37.894	0.0985	NULL	0.996
D00005939	NULL	NULL	1542.94	0.00308	1912.63	34.033	0.119	2220.4	31.264	0.298	NULL	NULL	NULL	2349.26	39.227	0.196	2.516	0.956
D00005940	16.031	0.00328	1541.65	0.000706	1915.35	31.201	0.0279	NULL	NULL	NULL	2250.76	15.732	0.0835	2322.45	34.669	0.138	NULL	0.993
D00005941	NULL	NULL	1543.94	0.00958	1918.23	35.151	0.0562	2219.34	31.166	0.302	NULL	NULL	NULL	2351.22	37.639	0.217	5.378	0.965
D00005943	NULL	NULL	1549.05	0.0185	1953.74	28.67	0.0345	2210.73	34.887	0.231	2248.78	20.358	0.159	2345.79	38.322	0.172	6.696	0.928
D00005944	14.982	0.0031	NULL	NULL	1919.77	34.072	0.0288	2218.37	31.204	0.219	NULL	NULL	NULL	2354.76	37.339	0.15	7.615	0.971
D00005945	NULL	NULL	1546.24	0.0178	1910.2	26.103	0.0367	2211.92	35.376	0.201	2247.85	20.158	0.146	2344.9	40.913	0.157	5.471	0.937
D00005946	11.31	0.0114	1539.02	0.00843	1914.57	35.738	0.0561	2212.42	33.518	0.191	2242.13	19.949	0.104	2351.98	37.773	0.126	3.399	0.962
D00005947	11.211	0.00129	1543.18	0.00268	1955.12	19.998	0.0206	NULL	NULL	NULL	2253.04	19.348	0.0909	2334.29	27.969	0.124	NULL	0.994
D00005948	14.395	0.000482	1547.08	0.00314	1912.68	34.623	0.0288	2199.6	23.029	0.0149	2256.17	20.297	0.0875	2341.68	39.658	0.233	NULL	0.997
D00005951	NULL	NULL	1553.64	0.00907	NULL	NULL	NULL	2221.05	32.107	0.0627	2255.29	18.667	0.126	2344.69	37.16	0.115	NULL	0.992
D00005952	NULL	NULL	1558.84	0.0372	1959.22	29.544	0.074	NULL	NULL	NULL	2253.55	19.672	0.257	2344.11	35.679	0.296	NULL	0.989
D00005953	NULL	NULL	1558.03	0.00115	1913.19	33.728	0.0657	2221.62	30.251	0.335	NULL	NULL	NULL	2349.77	38.53	0.224	5.1	0.966
D00005954	NULL	NULL	1566.49	0.0161	1915.79	35.499	0.0278	2218.6	31.477	0.204	2242.65	20.048	0.122	2346.75	37.855	0.146	7.346	0.971
D00005955	NULL	NULL	1557.89	0.0104	1957.5	20.64	0.0365	NULL	NULL	NULL	2257.13	20.586	0.185	2345.21	36.006	0.178	NULL	0.997
MB17-01	NULL	NULL	NULL	NULL	1931.21	46.613	0.178	2214.36	30.363	0.19	NULL	NULL	NULL	2350.03	33.736	0.0731	1.069	0.98
MB17-03	NULL	NULL	NULL	NULL	1910.98	37.598	0.186	2204.73	33.456	0.181	NULL	NULL	NULL	2346.28	36.357	0.058	0.969	0.935
MB17-05	NULL	NULL	NULL	NULL	1931.78	45.869	0.101	2208.36	31.525	0.0492	2260.35	17.817	0.0417	2323.56	28.717	0.00757	0.488	0.987
MB17-13	NULL	NULL	1540.39	0.00147	1915.09	38.372	0.103	2210.52	34.75	0.429	NULL	NULL	NULL	2348.28	38.321	0.265	4.167	0.862
MB17-17	NULL	NULL	1548.42	0.00601	1910.43	31.014	0.00496	2210.86	34.277	0.255	NULL	NULL	NULL	2346.69	38.723	0.153	51.386	0.925
MB17-18	NULL	NULL	1554.9	0.021	1909.32	30.989	0.0112	2211.74	34.691	0.254	NULL	NULL	NULL	2350.63	38.776	0.164	22.704	0.924
MB17-21	NULL	NULL	NULL	NULL	1910.28	31.926	0.335	2202.27	35.399	0.231	NULL	NULL	NULL	2347.19	37.343	0.0746	0.689	0.91
MB17-22	NULL	NULL	1542.8	0.0084	1913.35	32.68	0.109	2210.59	32.264	0.159	2257.47	16.933	0.107	2354.75	34.934	0.126	1.461	0.972
MB17-23	17.995	0.0136	1560.26	0.0179	1952.43	38.55	0.041	2225.86	27.099	0.048	2255.36	12.085	0.0528	2332.07	31.35	0.0446	NULL	0.99
MB17-24	15.694	0.01	1547	0.00879	1912.56	33.254	0.0327	2217.66	31.015	0.0756	2252.14	19.575	0.0568	2353.6	33.214	0.0719	2.316	0.992

Sample_ID	Width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350	sericite xtal	kaol xtal
MB17-25	NULL	NULL	1565.4	0.0352	1921.3	36.365	0.0387	2222.52	24.574	0.037	2252.38	17.386	0.0752	2349.86	37.367	0.109	NULL	0.998
MB17-26	14.578	0.00256	1538.15	0.00103	1928.68	37.423	0.0224	2217.87	31.357	0.136	NULL	NULL	NULL	2345.05	37.795	0.0857	6.049	0.976
MB17-27	NULL	NULL	NULL	NULL	1914.96	40.737	0.129	2213.38	33.684	0.393	NULL	NULL	NULL	2348.6	37.732	0.236	3.039	0.9
MB17-29	NULL	NULL	NULL	NULL	1918.05	44.31	0.209	2215.78	34.981	0.532	NULL	NULL	NULL	2349.26	39.784	0.354	2.549	0.867
MB17-31	NULL	NULL	NULL	NULL	1920.98	40.805	0.155	2202.57	31.502	0.449	NULL	NULL	NULL	2346.7	37.282	0.244	2.906	0.819
MB17-32	18.406	0.0117	1537.31	0.00988	1908.41	34.187	0.0252	2208.82	30.068	0.0787	2242.71	17.478	0.0213	2342.46	34.065	0.0462	3.124	0.981
MB17-33	NULL	NULL	1548.38	0.00548	1913.95	35.263	0.0845	2205.71	29.881	0.163	NULL	NULL	NULL	2344.63	35.972	0.052	1.927	0.966
MB17-45	7.395	0.000866	1555.48	0.00816	1912.03	34.785	0.0748	NULL	NULL	NULL	2252.88	21.325	0.127	2321.03	41.101	0.309	NULL	1.001
MB17-47	NULL	NULL	1552.46	0.0325	1914.09	39.996	0.0523	NULL	NULL	NULL	2254.9	20.193	0.247	2333.18	39.114	0.443	NULL	0.989
MB17-51	15.873	0.0106	NULL	NULL	1932.73	39.861	0.041	2223.46	28.463	0.0262	2247.22	17.883	0.0204	2330.95	34.057	0.0174	NULL	0.991
MB17-52	NULL	NULL	NULL	NULL	1917.98	40.534	0.161	2218.33	31.768	0.215	NULL	NULL	NULL	2348.25	38.031	0.125	1.336	0.962
MB17-54	14.344	0.00445	1546.96	0.00371	1923.32	40.833	0.0132	2214.51	32.024	0.267	NULL	NULL	NULL	2351	35.301	0.152	20.19	0.951
MB17-56	15.026	0.00639	1548.69	0.00669	1919.45	40.223	0.022	2211.38	33.187	0.0145	2253.78	17.196	0.0522	2342.55	37.365	0.0914	NULL	0.997
MB17-58	NULL	NULL	1539.06	0.00235	1910.38	32.928	0.151	2211.11	32.697	0.235	NULL	NULL	NULL	2348.37	37.469	0.139	1.555	0.93
MM17001	NULL	NULL	1553.69	0.00104	1923.54	38.153	0.0708	2216.05	33.967	0.482	NULL	NULL	NULL	2349.98	39.656	0.293	6.814	0.892
MM17003	NULL	NULL	1546.82	0.00317	1925.39	40.582	0.0382	2210.4	34.682	0.456	NULL	NULL	NULL	2349.57	37.586	0.27	11.939	0.862
MM17004	NULL	NULL	1556.51	0.000622	1910.68	33.327	0.0957	2218.21	32.892	0.517	NULL	NULL	NULL	2349.4	40.436	0.326	5.405	0.921
MM17005	18.528	0.0118	1548.97	0.0108	1933.4	40.363	0.0359	2212.97	32.586	0.0502	2255	21.298	0.035	2332.78	29.961	0.0273	NULL	0.99
MM17006	NULL	NULL	1542.19	0.00136	1943.05	35.453	0.0274	2221.9	26.179	0.0526	2261.82	16.73	0.0366	2344.46	33.467	0.0438	NULL	0.987
MM17007	NULL	NULL	1548.74	0.00146	1918.56	37.357	0.0655	2218.92	32.019	0.472	NULL	NULL	NULL	2350.52	39.548	0.294	7.202	0.927
MM17008	NULL	NULL	1547.68	0.00775	1913.97	32.702	0.0806	2214.79	34.723	0.419	NULL	NULL	NULL	2349.93	39.838	0.248	5.198	0.894
MM17009	NULL	NULL	1550.98	0.0216	NULL	NULL	NULL	2215.43	33.421	0.387	NULL	NULL	NULL	2347.4	38.642	0.283	NULL	0.922
MM17010	NULL	NULL	1560.48	0.00906	1956.91	39.086	0.0468	2209.75	34.994	0.144	2254.71	19.134	0.209	2345.21	37.388	0.196	3.072	0.964
MM17011	NULL	NULL	1553.04	0.0208	NULL	NULL	NULL	NULL	NULL	NULL	2253.38	20.012	0.374	2337.01	37.747	0.352	NULL	0.995
MM17012	NULL	NULL	1552.87	0.018	1957.18	30.98	0.0407	2212.84	34.317	0.272	2250.89	19.066	0.223	2345.46	38.438	0.227	6.664	0.934
MM17013	NULL	NULL	1553.85	0.0277	1948.86	45.666	0.0683	2211.69	33.702	0.226	2252.43	17.738	0.23	2344.08	36.857	0.243	3.308	0.954
MM17014	NULL	NULL	1546.07	0.00035	1910.01	33.97	0.141	2217.66	31.652	0.386	NULL	NULL	NULL	2350.63	37.399	0.234	2.736	0.943
MM17015	NULL	NULL	1552.64	0.00139	1915.91	36.934	0.201	2214.16	32.934	0.287	2243.66	18.935	0.145	2350.3	37.011	0.173	1.427	0.947

Sample_ID	Width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350	sericite xtal	kaol xtal
MM17016	NULL	NULL	NULL	NULL	1909.42	29.038	0.12	2207.54	29.959	0.113	2240.51	15.061	0.0352	2342.6	36.288	0.0547	0.944	0.966
MM17017	NULL	NULL	NULL	NULL	1913.77	35.043	0.196	2220.68	30.395	0.303	NULL	NULL	NULL	2350.36	37.324	0.158	1.549	0.965
MM17018	NULL	NULL	1567.19	0.000853	1911.13	32.719	0.0895	2213.67	34.08	0.321	NULL	NULL	NULL	2349.15	38.056	0.198	3.591	0.923
MM17019	NULL	NULL	1554.67	0.00226	1920.09	42.569	0.0554	2216.33	32.547	0.252	2250.03	20.537	0.179	2349.99	38.55	0.213	4.545	0.962
MM17020	NULL	NULL	NULL	NULL	1910.93	22.554	0.0418	2207.25	34.235	0.302	2243.59	20.488	0.15	2348.74	38.204	0.173	7.224	0.897
MM17021	NULL	NULL	1549.94	0.00229	1926.66	42.301	0.0733	2212.73	34.958	0.395	NULL	NULL	NULL	2347.18	39.212	0.232	5.384	0.887
MM17022	NULL	NULL	1557.43	0.0124	1913.25	32.802	0.0782	NULL	NULL	NULL	2252.83	19.465	0.149	2323.34	38.931	0.265	NULL	0.995
MM17023	NULL	NULL	1552.32	0.0224	1916.49	42.206	0.161	NULL	NULL	NULL	2253.99	19.747	0.226	2337.44	38.059	0.26	NULL	0.999
MM17024	11.201	0.000319	1555.46	0.00431	1919.45	39.03	0.0223	2214.73	33.102	0.274	NULL	NULL	NULL	2345.33	38.482	0.223	12.314	0.947
MM17025	NULL	NULL	1555.55	0.0199	1924.95	43.954	0.139	NULL	NULL	NULL	2253.64	20.333	0.158	2339.44	38.195	0.246	NULL	0.998
MM17026	NULL	NULL	1554.02	0.000959	1909.81	33.348	0.0639	2220.18	29.966	0.32	NULL	NULL	NULL	2346.59	37.721	0.199	5.002	0.962
MM17027	NULL	NULL	1548.48	0.0511	1948.67	33.62	0.0461	NULL	NULL	NULL	2254.29	19.514	0.282	2338.07	37.935	0.521	NULL	0.986
MM17028	NULL	NULL	1564.44	0.000252	1912.31	34.343	0.0965	2216.79	33.547	0.359	NULL	NULL	NULL	2348.96	38.045	0.214	3.719	0.92
MM17029	NULL	NULL	1551.95	0.0101	1958.13	23.32	0.0312	NULL	NULL	NULL	2258.12	20.478	0.178	2350.34	34.36	0.171	NULL	0.994
MM17030	NULL	NULL	1560.3	0.00121	1941.19	45.896	0.0221	2212.03	33.135	0.269	NULL	NULL	NULL	2348.32	35.255	0.144	12.197	0.941
MM17031	12.966	0.00217	1552.38	0.000356	1916.69	38.342	0.0541	2216.62	32.58	0.27	NULL	NULL	NULL	2350.79	38.09	0.157	4.996	0.961
MM17032	NULL	NULL	1552	0.00102	1915.9	38.241	0.0458	2213.52	34.963	0.467	NULL	NULL	NULL	2349.1	39.027	0.29	10.206	0.873
MM17033	NULL	NULL	1550.65	0.000365	1920.48	41.478	0.0628	2213.25	34.137	0.346	NULL	NULL	NULL	2351.22	37.624	0.195	5.51	0.916
MM17034	NULL	NULL	1553.04	0.000331	1923.38	40.03	0.0584	2214.17	34.772	0.444	NULL	NULL	NULL	2347.7	39.564	0.284	7.609	0.883
MM17035	16.509	0.000647	1568.9	0.000606	1918.13	35.543	0.0289	2215.28	34.561	0.446	NULL	NULL	NULL	2349.21	39.581	0.278	15.458	0.895
MM17036	NULL	NULL	1563.56	0.011	1958.99	33.786	0.0456	NULL	NULL	NULL	2256.43	19.994	0.211	2352.08	34.924	0.185	NULL	0.996
RH17008	NULL	NULL	1554.03	0.00126	1940.28	48.292	0.0372	2213.69	31.953	0.202	NULL	NULL	NULL	2349.79	37.943	0.105	5.437	0.968
RH17009	19.55	0.00675	1568.76	0.00444	1949.21	33.518	0.0265	2213.41	30.759	0.0851	2242.51	17.436	0.0441	2336.34	37.621	0.0368	3.206	0.982
RH17010	17.86	0.00941	1563.22	0.00522	1915.69	37.772	0.0453	2222.11	27.612	0.181	2242.18	20.912	0.125	2345.01	38.973	0.151	3.998	0.993
RH17011	NULL	NULL	1542.13	0.00148	1921.58	42.906	0.0706	2222.08	27.953	0.254	NULL	NULL	NULL	2350.85	36.274	0.131	3.6	0.979
RH17012	9.335	0.000478	1561.69	0.00204	1954.1	43.246	0.0468	2199.44	18.324	0.0102	2252.42	19.228	0.105	2321.46	40.948	0.264	NULL	0.999
RH17014	NULL	NULL	1559.34	0.00107	1917.63	37.016	0.0817	2221.03	30.545	0.332	NULL	NULL	NULL	2348.76	39.158	0.232	4.058	0.967
RH17015	NULL	NULL	NULL	NULL	1928.38	47.053	0.112	2210.72	33.197	0.288	NULL	NULL	NULL	2348.73	37.379	0.152	2.577	0.916

Sample_ID	Width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350	sericite xtal	kaol xtal
RH17016	NULL	NULL	NULL	NULL	1910.89	33.144	0.219	2206.5	33.604	0.388	NULL	NULL	NULL	2338.98	36.428	0.252	1.771	0.934
RH17018	NULL	NULL	NULL	NULL	1923.51	48.087	0.254	2208.96	27.501	0.221	NULL	NULL	NULL	2349.94	34.708	0.0799	0.868	0.938
RH17019	NULL	NULL	NULL	NULL	1913.05	33.861	0.168	2211.51	32.584	0.276	NULL	NULL	NULL	2352.27	36.351	0.142	1.642	0.936
RH17022	11.48	0.00188	1550.03	0.00187	1918.87	34.82	0.0143	2217.13	34.165	0.52	NULL	NULL	NULL	2349.23	39.454	0.343	36.432	0.887
RH17024	18.236	0.00739	NULL	NULL	1912.88	32.115	0.0226	2211.39	30.852	0.0648	NULL	NULL	NULL	2351.58	36.08	0.0259	2.864	0.989
RH17027	NULL	NULL	1545.2	0.000249	1912.07	38.833	0.0695	2221.67	31.615	0.391	NULL	NULL	NULL	2345.8	41.312	0.235	5.623	0.941
RH17028	NULL	NULL	NULL	NULL	1927.07	42.915	0.127	2220.11	30.784	0.387	NULL	NULL	NULL	2346.85	39.32	0.249	3.048	0.945
RH17030	12.765	0.0059	1552.82	0.00475	1916.22	30.927	0.0169	2221.45	30.204	0.379	NULL	NULL	NULL	2347.2	39.096	0.264	22.413	0.961
RH17031	NULL	NULL	NULL	NULL	1916	38.975	0.187	2220.44	30.887	0.396	NULL	NULL	NULL	2345.89	39.405	0.229	2.117	0.947
RH17032	NULL	NULL	1564.33	0.000331	1914.21	36.473	0.0742	2221.05	29.809	0.32	NULL	NULL	NULL	2348.84	37.939	0.193	4.312	0.966
RH17033	15.934	0.00607	1556.41	0.000672	1912.93	34.359	0.0947	2221.08	31.661	0.423	NULL	NULL	NULL	2349.13	40.277	0.26	4.465	0.935
RH17035	NULL	NULL	NULL	NULL	1915.59	38.112	0.155	2217.27	32.314	0.337	NULL	NULL	NULL	2348.39	39.466	0.186	2.166	0.939
RH17036	NULL	NULL	1567.42	0.000267	1919.08	37.321	0.0312	2211.73	34.692	0.4	NULL	NULL	NULL	2346.47	39.133	0.252	12.82	0.883
RH17037	16.528	0.0124	1544.71	0.0136	1908.59	28.74	0.0413	NULL	NULL	NULL	2252.22	18.93	0.114	2339.16	38.571	0.202	NULL	1
RH17038	16.886	0.00565	1552.96	0.00172	1910.9	32.531	0.0703	2221.73	28.691	0.26	NULL	NULL	NULL	2350.81	39.405	0.171	3.703	0.977
RH17039	15.755	0.00289	NULL	NULL	1951.26	33.586	0.0132	2209.5	29.934	0.0951	2246.36	17.913	0.0499	2357.81	38.011	0.0365	7.2	0.98
RH17040	16.264	0.00668	1551.97	0.00485	1926.16	39.266	0.0492	2209.77	31.978	0.112	2254.75	19.95	0.0668	2356.83	34.138	0.0773	2.276	0.969
RH17041	NULL	NULL	1555.08	0.00917	1913.06	22.646	0.0328	2215.09	35.856	0.39	NULL	NULL	NULL	2345.18	40.567	0.243	11.891	0.892
RH17042	NULL	NULL	1541.44	0.0105	1914.55	35.208	0.292	2218.25	32.169	0.305	2242.52	19.383	0.226	2346.67	42.193	0.26	1.044	0.964
RH17043	14.908	0.00788	1564.76	0.00568	1924.76	35.534	0.0158	2216.99	29.218	0.0601	2241.17	17.862	0.032	2356.24	39.475	0.0319	3.794	0.992
RH17044	NULL	NULL	NULL	NULL	1930.52	45.133	0.165	2219.06	30.541	0.218	NULL	NULL	NULL	2346.51	38.54	0.121	1.322	0.979
RH17045	15.853	0.00797	1539.97	0.00506	1919.91	40.704	0.0551	2220.73	26.458	0.101	2251.41	19.734	0.0959	2341.91	38.607	0.14	1.841	0.998
RH17046	NULL	NULL	1564.47	0.000214	1919.29	35.83	0.0524	2208.84	34.472	0.364	NULL	NULL	NULL	2347.24	38.214	0.223	6.943	0.881
RH17047	20.733	0.00192	1558.31	0.00588	1913.79	32.273	0.0141	NULL	NULL	NULL	2252.29	17.771	0.207	2339.17	40.857	0.286	NULL	1.003
RH17048	19.667	0.00348	1562.11	0.00137	1921.01	41.554	0.0248	2216.93	30.691	0.205	NULL	NULL	NULL	2348.73	36.559	0.124	8.29	0.971
RH17049	NULL	NULL	1551.55	0.000556	1915.94	35.152	0.0626	2215.05	33.876	0.401	NULL	NULL	NULL	2347.54	39.426	0.25	6.396	0.911
RH17050	NULL	NULL	NULL	NULL	1920.73	28.453	0.0177	2215.61	33.321	0.267	NULL	NULL	NULL	2350.56	37.922	0.181	15.086	0.952
RH17051	NULL	NULL	1551.47	0.000149	1921.27	40.838	0.0822	2214.02	34.113	0.389	NULL	NULL	NULL	2350.46	38.326	0.237	4.739	0.908

Sample_ID	Width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350	sericite xtal	kaol xtal
RH17052	14.823	0.00289	1565.8	0.000376	1922.05	44.644	0.0529	2218.41	31.686	0.293	2243.45	19.842	0.168	2344.41	38.02	0.193	5.529	0.958
RH17053	NULL	NULL	1565.41	0.000303	1917.36	35.739	0.0418	2219.41	31.658	0.295	NULL	NULL	NULL	2351.26	38.577	0.19	7.056	0.954
RH17055	NULL	NULL	1550.23	0.000426	1914.4	34.791	0.0446	2218.56	31.802	0.333	NULL	NULL	NULL	2350.6	38.147	0.224	7.482	0.953
RH17056	14.431	0.0049	1548.46	0.000839	1921.88	40.84	0.0626	2220.85	27.197	0.177	2248.25	20.522	0.109	2343.97	38.918	0.149	2.822	0.996
RH17058	15.971	0.00518	1545.24	0.000308	1912.84	35.912	0.0804	2219.65	31.085	0.286	NULL	NULL	NULL	2352.51	38.966	0.172	3.56	0.953
RH17059	NULL	NULL	1564.36	0.000546	1918.46	36.851	0.0832	2219.05	31.199	0.27	NULL	NULL	NULL	2350.48	39.605	0.151	3.252	0.96
RH17060	16.521	0.0157	NULL	NULL	1924.05	43.992	0.138	2217.62	31.099	0.257	NULL	NULL	NULL	2350.67	38.389	0.162	1.861	0.969
RH17061	12.341	0.00206	1543.12	0.00203	1923.33	38.56	0.0536	2218.84	30.726	0.179	2247.61	20.968	0.111	2346.38	37.75	0.132	3.342	0.982
RH17062	12.659	0.0147	1542.56	0.0121	1918.26	37.054	0.0424	2208.51	24.208	0.0396	2253.86	17.321	0.0511	2343.48	38.347	0.0754	0.933	0.997
RH17063	NULL	NULL	1541.75	0.0029	1926.96	48.01	0.084	2208.26	14.405	0.0188	2254.34	19.656	0.126	2339.68	39.261	0.141	NULL	1.003
RH17064	21.737	0.00265	1546.45	0.000627	1938.93	40.615	0.0246	2218.96	30.37	0.189	NULL	NULL	NULL	2345.73	36.571	0.109	7.666	0.976
RH17065	NULL	NULL	1552.72	0.000649	1911.7	28.34	0.0332	2218.75	31.544	0.4	NULL	NULL	NULL	2347.81	38.122	0.253	12.05	0.944
RH17066	15.645	0.001	1568.32	0.000872	1924.74	36.199	0.0257	2220.62	30.433	0.326	NULL	NULL	NULL	2349.34	38.672	0.205	12.673	0.963
RH17067	13.466	0.00172	1550.05	0.000846	1913.39	34.405	0.0402	2220.66	31.165	0.417	NULL	NULL	NULL	2348.93	38.082	0.283	10.377	0.949
RH17068	NULL	NULL	1538.82	0.00229	1922.85	43.456	0.103	2220.31	24.921	0.053	2250.99	19.989	0.047	2344.34	36.016	0.0671	0.512	1
RH17069	NULL	NULL	1542.46	0.000374	1917.13	37.098	0.0954	2219.62	31.315	0.383	NULL	NULL	NULL	2349.23	39.049	0.232	4.014	0.947
RH17070	13.719	0.00478	1546.83	0.00189	1928.57	38.876	0.0354	2218.24	29.917	0.134	NULL	NULL	NULL	2350.49	37.634	0.0636	3.789	0.984
RH17071	19.393	0.00332	1544.69	0.000697	1920.7	40.231	0.0496	2220.99	29.666	0.285	NULL	NULL	NULL	2355.38	38.314	0.193	5.749	0.974
RH17072	NULL	NULL	NULL	NULL	1931.73	47.957	0.183	2218.55	31.395	0.247	NULL	NULL	NULL	2345.57	39.422	0.159	1.349	0.967
RH17073	NULL	NULL	1556.43	0.000453	1916.57	35.431	0.0508	2221.16	30.374	0.344	NULL	NULL	NULL	2350.34	39.699	0.234	6.779	0.957
RH17074	NULL	NULL	NULL	NULL	1926.43	43.889	0.0967	2221.93	28.668	0.243	NULL	NULL	NULL	2347.8	38.264	0.14	2.517	0.976
RH17075	10.749	0.0193	1564.83	0.0244	1931.91	32.596	0.0627	2216.47	26.761	0.0851	2245.29	17.286	0.0717	2347	24.283	0.067	NULL	0.992
RH17076	NULL	NULL	1555.94	0.0131	1928.1	29.07	0.0349	2211.4	32.431	0.0392	2246.27	16.726	0.0286	2321.51	28.892	0.0242	1.124	0.995
RH17078	16.104	0.022	1548.67	0.0255	1924.53	21.216	0.0471	2211.9	25.946	0.0581	2242.95	13.892	0.0453	2328.37	25.705	0.0396	NULL	0.99
RH17079	NULL	NULL	1552.43	0.0294	1909.84	29.649	0.106	NULL	NULL	NULL	2252.97	19.914	0.246	2335.04	42.865	0.399	NULL	0.997
RH17081	18.136	0.0126	NULL	NULL	1910.69	31.945	0.0799	2217.65	33.683	0.0308	2243.22	11.629	0.0275	2317.78	29.984	0.048	NULL	0.994
RH17082	4.625	0.00114	1548.97	0.0293	1909.97	31.87	0.167	NULL	NULL	NULL	2253.27	20.428	0.212	2323.57	43.352	0.431	NULL	0.997
RH17083	NULL	NULL	1537.02	0.013	1924.74	41.695	0.0877	2205.96	31.482	0.0182	2247.32	17.14	0.0196	2330.78	31.708	0.0196	NULL	0.997

EQUITY

Sample_ID	Width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350	sericite xtal	kaol xtal
RH17084	NULL	NULL	1566.84	0.0188	1919.42	37.317	0.0555	2209.79	30.318	0.0654	NULL	NULL	NULL	2327.17	35.209	0.0588	NULL	0.992
RH17085	16.679	0.00065	1550.42	0.0244	1908.92	25.266	0.133	NULL	NULL	NULL	2253.59	19.966	0.23	2328.33	41.491	0.346	NULL	0.99
RH17086	14.692	0.00528	1540.53	0.00716	1912.6	34.268	0.0223	2227.43	29.706	0.0404	2242.76	13.954	0.0387	NULL	NULL	NULL	NULL	0.992
RH17087	13.66	0.00949	1538.09	0.00432	1924.93	40.049	0.0512	2202.89	31.452	0.168	NULL	NULL	NULL	2344.95	34.099	0.0851	3.283	0.937
RH17088	NULL	NULL	1557.83	0.00135	1911.85	36.015	0.0233	2220.1	30.533	0.32	NULL	NULL	NULL	2346.78	38.021	0.209	13.751	0.961
RH17089	NULL	NULL	1550.06	0.00779	1958.34	21.121	0.0317	2211.54	33.816	0.0753	2254.68	18.823	0.137	2347.18	35.048	0.139	2.376	0.985
RH17090	15.381	0.00899	1564.81	0.0127	1923.57	30.059	0.0485	2220.13	30.13	0.0657	2244.04	13.591	0.057	2360	37.82	0.0459	NULL	0.988
RH17091	NULL	NULL	1545.71	0.0173	1916.56	42.789	0.0667	2218.36	32.873	0.116	2253.46	17.51	0.154	2339.07	37.448	0.222	1.735	0.988
RH17092	16.292	0.00434	1539.95	0.00308	1924.91	40.447	0.0344	2207.46	23.809	0.0703	NULL	NULL	NULL	2351.17	30.124	0.0301	NULL	0.987
RH17093	NULL	NULL	1540.77	0.00446	1918.6	33.312	0.0277	2210.23	30.623	0.137	2250.72	21.474	0.0612	2354.91	36.368	0.0942	4.945	0.978
RH17094	14.149	0.011	1541.24	0.00914	1919.73	29.989	0.0219	2220.1	29.949	0.0527	2241.76	11.849	0.0318	2342.54	34.953	0.0639	2.404	0.989
RH17095	NULL	NULL	NULL	NULL	1912.08	34.709	0.11	2209.84	32.054	0.216	NULL	NULL	NULL	2345.51	37.955	0.106	1.976	0.959
RH17097	19.679	0.0186	1551.96	0.0209	1955.93	31.169	0.0445	2201.31	30.932	0.0605	2252.15	17.098	0.0405	2359.29	37.351	0.0495	NULL	0.984
RH17098	NULL	NULL	1537.95	0.00646	1920.11	40.735	0.123	2206.18	30.325	0.174	2257.55	20.142	0.0487	2346.69	31.132	0.0429	1.415	0.948
RH17099	NULL	NULL	1556.91	0.00131	1912.79	33.036	0.0457	2210.52	34.106	0.374	NULL	NULL	NULL	2349.52	37.317	0.216	8.174	0.901
RH17100	NULL	NULL	1548.36	0.00202	1905.31	28.034	0.0227	2215.62	34.854	0.543	NULL	NULL	NULL	2351.49	39.848	0.36	23.901	0.861
RH17102	14.204	0.012	1565.86	0.0132	1911.22	31.145	0.0446	2205.62	27.39	0.0641	2244.26	13.512	0.0446	2336.96	30.132	0.0349	NULL	0.986
RH17103	NULL	NULL	1539.42	0.0213	1928.41	42.766	0.114	2180.1	28.04	0.0215	NULL	NULL	NULL	2325.49	36.409	0.0348	NULL	1.005
RH17104	NULL	NULL	1557.88	0.000605	1915.02	38.108	0.0466	2220.1	30.392	0.214	NULL	NULL	NULL	2352.04	37.944	0.139	4.6	0.973
RH17105	NULL	NULL	1559.18	0.000235	1918.58	41.311	0.0921	2221.38	30.391	0.328	NULL	NULL	NULL	2349.4	38.022	0.199	3.563	0.966
RH17107	NULL	NULL	1551.71	0.00159	1915.58	32.864	0.0327	2218.8	30.912	0.261	2243.74	19.478	0.15	2350.37	36.801	0.181	7.996	0.968
RH17108	16.826	0.00808	1547.61	0.00774	1937.88	34.975	0.0238	2214.3	31.554	0.0617	2240.7	14.471	0.0302	2356.2	32.254	0.0343	2.596	0.985
RH17109	NULL	NULL	1543.25	0.0104	1914.55	32.429	0.0631	2214.88	32.989	0.284	2250.35	21.021	0.164	2347.53	37.348	0.2	4.494	0.948
RH17110	NULL	NULL	1557.73	0.00267	1913.9	34.183	0.0486	2217.61	32.909	0.414	NULL	NULL	NULL	2347.74	39.375	0.278	8.532	0.931
RH17111	NULL	NULL	1554.58	0.0506	NULL	NULL	NULL	NULL	NULL	NULL	2253.25	19.426	0.327	2340.01	30.323	0.287	NULL	0.99
RH17112	NULL	NULL	1553.73	0.000531	1913.24	36.276	0.0737	2214.79	34.182	0.371	NULL	NULL	NULL	2350.3	38.635	0.231	5.032	0.925
RH17113	NULL	NULL	1567.39	0.00127	1912.35	35.191	0.102	2217.69	33.558	0.426	NULL	NULL	NULL	2349.93	39.547	0.264	4.161	0.914
RH17114	NULL	NULL	NULL	NULL	1921.83	45.068	0.224	2219.93	31.732	0.381	NULL	NULL	NULL	2348.01	38.331	0.244	1.701	0.909

Sample_ID	Width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350	sericite xtal	kaol xtal
RH17115	14.22	0.0203	1560.01	0.0204	1913.05	33.685	0.0881	2227.27	24.082	0.0373	2253.09	18.748	0.13	2338.14	39.909	0.213	NULL	1
RH17116	NULL	NULL	1541.36	0.000716	1909.85	32.517	0.172	2215.17	34.494	0.33	NULL	NULL	NULL	2347.92	38.383	0.19	1.915	0.917
RH17118	17.392	0.0117	1552.24	0.0133	1911.93	30.986	0.0723	NULL	NULL	NULL	2251.58	17.756	0.152	2335.68	39.595	0.236	NULL	1.001
RH17119	16.019	0.00228	NULL	NULL	1922.93	50.171	0.0282	2211.74	33.647	0.161	2246.07	21.16	0.0863	2354.49	39.258	0.0913	5.699	0.962
RH17120	NULL	NULL	NULL	NULL	1909.73	32.737	0.378	2208	32.184	0.339	NULL	NULL	NULL	2343.49	39.697	0.159	0.896	0.858
RH17121	NULL	NULL	NULL	NULL	1910.31	31.935	0.199	2216.03	33.946	0.361	NULL	NULL	NULL	2352.26	38.814	0.214	1.812	0.903
RH17122	NULL	NULL	1540.53	0.000705	1930.2	47.852	0.0604	2210.09	33.596	0.12	2241.22	20.773	0.059	2356.89	37.704	0.0804	1.993	0.97
RH17123	17.554	0.00624	1564.41	0.00371	1923.47	33.102	0.0214	2220	28.044	0.183	NULL	NULL	NULL	2357.06	36.972	0.0897	8.536	0.977
RH17124	18.038	0.0165	1568.98	0.0218	1926.94	27.652	0.0481	2219.42	29.772	0.0842	2244.96	16.145	0.0657	2323.31	34.08	0.0394	1.75	0.99
RH17125	NULL	NULL	1539.57	0.0132	1930.17	43.18	0.0972	2220.3	27.934	0.182	NULL	NULL	NULL	2352.32	38.716	0.0956	1.87	0.985
RH17126	10.253	0.00863	1546.74	0.0141	NULL	NULL	NULL	NULL	NULL	NULL	2259.89	19.562	0.157	2358.11	34.319	0.138	NULL	0.996
RH17127	NULL	NULL	1551.23	0.00163	1909.24	29.388	0.0626	2205.04	31.128	0.288	NULL	NULL	NULL	2348.89	38.216	0.129	4.592	0.915
RH17128	NULL	NULL	1539.05	0.0159	1921.37	39.329	0.193	2216.23	32.874	0.446	NULL	NULL	NULL	2348.79	38.758	0.285	2.307	0.921
RH17129	NULL	NULL	1552.34	0.00105	1909.14	31.028	0.128	2217.31	33.637	0.493	NULL	NULL	NULL	2351.23	40.427	0.293	3.854	0.905
RH17130	NULL	NULL	1540.24	0.0174	1931.9	43.425	0.0935	2207.86	30.027	0.0215	2258.16	16.377	0.0228	2332.08	34.295	0.0313	NULL	0.999
RH17131	16.737	0.0116	1548.66	0.0106	1931.19	41.194	0.0498	2213.99	29.872	0.0745	2245.99	17.264	0.0549	2353.29	38.25	0.038	NULL	0.987
RH17132	NULL	NULL	1546.37	0.00131	1914.98	37.206	0.133	2219.47	30.836	0.339	NULL	NULL	NULL	2353.2	37.079	0.202	2.55	0.958
RH17133	14.431	0.013	1541	0.0103	1916.06	45.296	0.0535	2205.25	29.198	0.0641	2242.7	18.071	0.0384	2324.94	32.813	0.0202	NULL	0.987
RH17134	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2253.65	19.917	0.33	2342.91	36.929	0.379	NULL	0.99
RH17135	NULL	NULL	1551.24	0.000602	1912.42	32	0.111	2211.7	33.464	0.342	NULL	NULL	NULL	2354.21	36.512	0.193	3.087	0.934
RH17136	NULL	NULL	NULL	NULL	1912.97	34.376	0.249	2208.13	29.456	0.227	NULL	NULL	NULL	2353.93	38.393	0.0921	0.909	0.943
RH17137	NULL	NULL	NULL	NULL	1932.67	46.985	0.204	2214.85	32.441	0.245	NULL	NULL	NULL	2354.68	37.228	0.125	1.199	0.955
RH17138	11.935	0.0198	1554.65	0.0319	NULL	NULL	NULL	2211.77	34.715	0.32	2251.97	19.014	0.273	2345.34	38.477	0.284	NULL	0.919
RH17139	NULL	NULL	NULL	NULL	1909.32	31.446	0.205	2213.77	33.63	0.34	NULL	NULL	NULL	2350.41	39.446	0.192	1.654	0.916
RH17140	NULL	NULL	1540.52	0.00843	1932	47.468	0.0788	2213.59	30.641	0.104	NULL	NULL	NULL	2356.96	39.569	0.0414	1.325	0.982
RH17141	NULL	NULL	1552.27	0.00185	1919.37	34.205	0.0562	2208.53	35.252	0.388	NULL	NULL	NULL	2347.78	39.969	0.193	6.895	0.866
RH17142	NULL	NULL	NULL	NULL	1914.57	39.951	0.123	2212.93	31.412	0.105	2240.45	19.599	0.0683	2329.08	37.857	0.025	0.85	0.983
RH17143	NULL	NULL	NULL	NULL	1910.6	31.604	0.194	2205.86	29.842	0.213	NULL	NULL	NULL	2342.01	39.804	0.0607	1.098	0.934

Sample_ID	Width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350	sericite xtal	kaol xtal
RH17144	NULL	NULL	NULL	NULL	1908.61	29.648	0.27	2202.13	32.616	0.282	NULL	NULL	NULL	2339.76	36.947	0.162	1.045	0.877
RH17145	NULL	NULL	1564.33	0.000771	1908.37	25.402	0.0111	2207.79	34.906	0.623	NULL	NULL	NULL	2350.72	39.778	0.385	56.377	0.758
RH17146	NULL	NULL	1556.56	0.0209	1916.71	50.555	0.0817	2210.65	34.637	0.29	2247.4	20.259	0.182	2348.64	39.365	0.203	3.549	0.919
RH17147	NULL	NULL	1545.89	0.0206	NULL	NULL	NULL	2209.86	34.132	0.246	2251.2	20.455	0.178	2349.98	38.979	0.183	NULL	0.933
RH17148	NULL	NULL	NULL	NULL	1926.89	41.558	0.207	2215.88	30.946	0.183	NULL	NULL	NULL	2342.55	40.573	0.0939	0.883	0.981
RH17149	NULL	NULL	1540.5	0.00235	1924.39	41.785	0.106	2214.58	34.003	0.386	NULL	NULL	NULL	2351.03	39.017	0.21	3.64	0.909
RH17150	NULL	NULL	1543.33	0.00167	1923.6	44.68	0.0986	2214.59	33.524	0.319	NULL	NULL	NULL	2353.5	39.432	0.173	3.232	0.925
RH17151	21.125	0.00296	1548.66	0.00403	1926.38	39.87	0.0181	2213.32	33.969	0.294	NULL	NULL	NULL	2354.05	39.527	0.145	16.187	0.926
RH17152	NULL	NULL	1540.57	0.0105	1929.27	45.461	0.0897	2213.08	34.991	0.23	NULL	NULL	NULL	2339.47	38.983	0.143	2.565	0.933
RH17153	NULL	NULL	1567.54	0.0258	NULL	NULL	NULL	2211.19	35.154	0.318	2247.33	20.387	0.193	2349.88	39.011	0.192	NULL	0.895
RH17154	NULL	NULL	1540.8	0.000854	1922.81	40.57	0.0902	NULL	NULL	NULL	2251.61	17.511	0.139	2337.32	38.896	0.125	NULL	0.995
RH17155	NULL	NULL	1558.69	0.0168	1910.46	29.028	0.0526	NULL	NULL	NULL	2253.32	16.966	0.139	2344.8	39.746	0.192	NULL	0.998
RH17156	NULL	NULL	1560.27	0.0213	1911.55	27.013	0.0964	NULL	NULL	NULL	2253.44	19.069	0.207	2339.92	40.165	0.308	NULL	0.999
RH17157	16.265	0.00943	1537.29	0.00961	NULL	NULL	NULL	2216.84	30.914	0.0589	NULL	NULL	NULL	2328.92	33.219	0.0299	NULL	0.992
RH17159	13.283	0.000556	1546.83	0.00385	1907.71	18.614	0.00888	2198.52	18.35	0.0224	2254.76	20.081	0.126	2326.24	39.724	0.329	NULL	0.999
RH17160	NULL	NULL	1545.53	0.0153	NULL	NULL	NULL	NULL	NULL	NULL	2253.05	20.177	0.156	2338.3	33.327	0.295	NULL	1.002
RH17161	NULL	NULL	NULL	NULL	1928.69	41.44	0.167	2218.47	30.864	0.16	NULL	NULL	NULL	2350.54	38.682	0.1	0.958	0.99
RH17162	15.385	0.00952	1566.98	0.00497	1915.67	32.749	0.0696	2221.24	31.275	0.295	NULL	NULL	NULL	2343.99	39.421	0.189	4.247	0.961
RH17163	14.068	0.00409	1554.36	0.00418	1910.37	33.515	0.0398	2217.75	32.429	0.351	NULL	NULL	NULL	2350.9	38.46	0.233	8.814	0.947
RH17164	NULL	NULL	1554.93	0.000381	1910.94	33.963	0.0943	2219.74	32.011	0.421	NULL	NULL	NULL	2346.91	39.808	0.265	4.469	0.942
RH17165	14.437	0.000765	1552.81	0.0018	1920.54	39.674	0.0132	2216.73	33.9	0.362	NULL	NULL	NULL	2348.27	39.004	0.231	27.391	0.921
RH17166	NULL	NULL	NULL	NULL	1929.54	43.259	0.13	2210.06	30.326	0.0591	2254.71	20.339	0.0162	2349.88	31.371	0.0571	0.455	0.994
RH17167	NULL	NULL	NULL	NULL	1918.58	43.265	0.0842	2216.62	33.354	0.227	NULL	NULL	NULL	2351.74	36.635	0.151	2.696	0.954
RH17168	17.334	0.012	NULL	NULL	1936.98	42.927	0.0375	2218.11	33.169	0.0658	2243.34	13.316	0.0428	2335.47	33.395	0.0335	1.752	0.988
RH17169	NULL	NULL	1537.43	0.00131	1916.76	35.983	0.15	2215.5	33.819	0.271	NULL	NULL	NULL	2347.05	36.206	0.143	1.808	0.935
RH17170	15.895	0.00384	1554.05	0.000631	1911.62	32.399	0.0868	2217.67	33.893	0.387	NULL	NULL	NULL	2351.82	38.848	0.236	4.458	0.913
RH17171	NULL	NULL	1567.29	0.00257	1917.44	45.096	0.0558	NULL	NULL	NULL	2258.35	19.858	0.134	2357.14	34.93	0.119	NULL	0.996
RH17172	NULL	NULL	1539.99	0.000963	1915.75	34.797	0.158	2213.07	34.441	0.271	NULL	NULL	NULL	2349.85	37.54	0.162	1.717	0.936

Sample_ID	Width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350	sericite xtal	kaol xtal
RH17173	NULL	NULL	1553.23	0.00045	1911.35	32.377	0.103	2215.54	33.39	0.328	NULL	NULL	NULL	2351.23	37.987	0.195	3.189	0.944
RH17174	NULL	NULL	1557.66	0.00129	1908.78	29.932	0.0266	2211.9	33.515	0.306	NULL	NULL	NULL	2351.22	36.381	0.183	11.514	0.933
RH17175	18.001	0.00667	NULL	NULL	1912.45	32.058	0.0576	2217.81	32.851	0.287	NULL	NULL	NULL	2348.33	38.233	0.204	4.978	0.955
RH17176	15.124	0.00375	1556.46	0.00167	1915.52	24.374	0.0305	2216.99	32.435	0.0881	NULL	NULL	NULL	2344.22	34.216	0.0393	2.886	0.984
RH17178	17.851	0.0071	1541.04	0.00421	1940.17	44.772	0.0502	NULL	NULL	NULL	NULL	NULL	NULL	2324.34	35.4	0.108	NULL	1.001
RH17179	13.369	0.00292	1565.99	0.00117	1915.89	29.124	0.022	2220.45	34.998	0.0671	NULL	NULL	NULL	2339.29	31.649	0.035	3.046	0.988
RH17180	NULL	NULL	1566.9	0.00172	1917.5	37.951	0.101	2212.88	33.916	0.289	NULL	NULL	NULL	2351.25	36.524	0.154	2.865	0.932
RH17181	19.141	0.00657	NULL	NULL	1912.25	32.568	0.0768	2214.18	34.504	0.287	NULL	NULL	NULL	2346.63	39.362	0.192	3.744	0.931
RH17182	17.572	0.00179	1568.68	0.00162	1918.99	35.339	0.0188	2216.36	34.97	0.399	NULL	NULL	NULL	2351.05	40.853	0.28	21.199	0.902
RH17190	NULL	NULL	1565.17	0.000011	1916.77	37.735	0.078	2210.8	33.547	0.289	NULL	NULL	NULL	2346.54	37.86	0.167	3.713	0.943
RH17191	NULL	NULL	1548.4	0.00294	1909.74	33.418	0.0236	NULL	NULL	NULL	2253.17	19.285	0.11	2341.75	35.058	0.112	NULL	0.992
RH17193	NULL	NULL	1555.52	0.00155	1915.81	36.01	0.171	NULL	NULL	NULL	2254.52	20.251	0.0895	2326.3	43.817	0.205	NULL	1
RH17194	NULL	NULL	1550.19	0.00437	1933.96	47.419	0.0352	2206.2	32.177	0.237	NULL	NULL	NULL	2346.96	38.358	0.117	6.72	0.916
RH17195	NULL	NULL	1543.86	0.00475	1913.35	32.521	0.101	2209.06	34.098	0.254	NULL	NULL	NULL	2355.14	38.752	0.143	2.515	0.915
RH17196	18.044	0.00419	1566.91	0.00533	1930.71	39.371	0.0221	2208.91	32.351	0.0533	2240.62	12.658	0.0315	2354.01	38.666	0.0244	2.411	0.988
RH17197	NULL	NULL	1551.33	0.008	1909.31	29.351	0.0208	2210.25	35.431	0.576	NULL	NULL	NULL	2346.57	40.17	0.35	27.702	0.795
RH17198	NULL	NULL	1565.95	0.00233	1942.22	39.705	0.0241	2207.37	32.614	0.072	2248.92	19.667	0.0514	2341.41	34.57	0.0433	2.984	0.982
RH17199	NULL	NULL	1544.23	0.0116	1955.86	39.494	0.0531	NULL	NULL	NULL	2251.34	16.663	0.0983	2344.4	35.329	0.0794	NULL	0.989
RH17200	NULL	NULL	1562.8	0.00611	NULL	NULL	NULL	NULL	NULL	NULL	2254.07	19.889	0.211	2343.65	36.701	0.202	NULL	0.995

Table J-3: Column Decriptions

Column Name	Explanation
Min1 sTSAS	The primary mineral identified by The Spectral Assistant™
Wt1 sTSAS	Proportion of the spectrum explained by the primary mineral, out of 1
Min2 sTSAS	The secondary mineral identified by The Spectral Assistant™
Wt2 sTSAS	Proportion of the spectrum explained by the secondary mineral, out of 1
Min3 sTSAS	The tertiary mineral identified by The Spectral Assistant™
NIL Stat sTSAS	The proportion of the spectrum not explained by any mineral in the spectral library
Error sTSAS	A standardized measure of the error on the calculated mineral assemblage relative to the measured spectrum, based on the sum of squares method.
w1485	The wavelength of the peak absorption of the 1485 nm absorption feature, if present
width1485	The range of wavelengths that the 1485 nm absorption feature affects relative to the white reference calibration spectrum, if present
hqd1485	The hull difference quotient (a measure of the depth of the absorption feature) of the 1485 nm absorption feature, if present
w1550	The wavelength of the peak absorption of the 1550 nm absorption feature, if present
hqd1550	The hull difference quotient (a measure of the depth of the absorption feature) of the 1550 nm absorption feature, if present
w1900	The wavelength of the peak absorption of the 1900 nm absorption feature, if present
width1900	The range of wavelengths that the 1900 nm absorption feature affects relative to the white reference calibration spectrum, if present
hqd1900	The hull difference quotient (a measure of the depth of the absorption feature) of the 1900 nm absorption feature, if present
w2200	The wavelength of the peak absorption of the 2200 nm absorption feature, if present
width2200	The range of wavelengths that the 2200 nm absorption feature affects relative to the white reference calibration spectrum, if present
hqd2200	The hull difference quotient (a measure of the depth of the absorption feature) of the 2200 nm absorption feature, if present
w2250	The wavelength of the peak absorption of the 2250 nm absorption feature, if present
width2250	The range of wavelengths that the 2250 nm absorption feature affects relative to the white reference calibration spectrum, if present
hqd2250	The hull difference quotient (a measure of the depth of the absorption feature) of the 2250 nm absorption feature, if present
w2350	The wavelength of the peak absorption of the 2350 nm absorption feature, if present
width2350	The range of wavelengths that the 2350 nm absorption feature affects relative to the white reference calibration spectrum, if present
hqd2350	The hull difference quotient (a measure of the depth of the absorption feature) of the 2350 nm absorption feature, if present
sericite xtal	A measure of the depth of the 1900 nm absorption feature. This is used as a proxy for the average defect density (or crystal size) of the white micas
kaol xtal	A measure of the width of the kaolinite reflectance feature at 2180 nm. This is used as a proxy for the average defect density (or crystal size) of kaolinite

Appendix K: Soil Sample Descriptions

This appendix contains coordinates[1] and descriptions for all 2017 soil samples.

Table K-1: Descriptions of 2017 Soil Samples

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
B00266352	412646	6815698	8/6/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
B00266353	412647	6815799	8/6/2017			KZK	25	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
B00266354	412351	6815901	8/6/2017			KZK	15	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
B00266355	412347	6815997	8/6/2017			KZK	20	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
B00266356	412344	6816103	8/6/2017			KZK	25	B	Brown	10			60	30	Alpine	Moist Below	Jake Lucyshyn
B00266357	412241	6816099	8/6/2017			KZK	20	B	Brown	10	10	60	20		Alpine	Moist Below	Jake Lucyshyn
B00266358	412146	6816095	8/6/2017			KZK	10	B	Grey	10		70	20		Alpine	Moist Below	Jake Lucyshyn
B00266359	412040	6816100	8/6/2017			KZK	25	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
B00266360			8/6/2017	BLANK		KZK											Jake Lucyshyn
B00266361	411939	6816097	8/6/2017			KZK	20	B	Brown	20		60	10	10	Alpine	Moist Below	Jake Lucyshyn
B00266362	411847	6816098	8/6/2017			KZK	20	B	Brown	20		50	20	10	Alpine	Moist Below	Jake Lucyshyn
B00266363	411743	6816097	8/6/2017			KZK	30	B	Brown	20	10	60	10		Alpine	Moist Below	Jake Lucyshyn
B00266364	411647	6816097	8/6/2017			KZK	15	B	Brown	20		60	10	10	Alpine	Wet 5cm	Jake Lucyshyn
B00266365	411547	6816099	8/6/2017			KZK	20	B	Brown	10		70	10	10	Alpine	Moist Below	Jake Lucyshyn
B00266366	411446	6816098	8/6/2017			KZK	25	B	Brown	10		70	10	10	Alpine	Moist Below	Jake Lucyshyn
B00266367	411348	6816103	8/6/2017			KZK	20	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
B00266368	411244	6816100	8/6/2017			KZK	15	B	Grey	10		80	10		Alpine	Moist Below	Jake Lucyshyn
B00266369	411143	6816098	8/6/2017			KZK	10	B	Brown	10		70	10	10	Alpine	Moist Below	Jake Lucyshyn
B00266370	411042	6816106	8/6/2017			KZK	30	B	Brown	10		10	80		Alpine	Moist Below	Jake Lucyshyn
B00266371	411047	6816197	8/6/2017			KZK	25	B	Brown	40		50	10		Alpine	Moist Below	Jake Lucyshyn
B00266372	411156	6816296	8/6/2017			KZK	25	B	Grey	10	10	70	10		Alpine	Moist Below	Jake Lucyshyn
B00266373	411051	6816306	8/6/2017			KZK	20	B	Brown	20		60	20		Alpine	Moist Below	Jake Lucyshyn
B00266374	410944	6816298	8/6/2017			KZK	35	B	Black	30		70			Alpine	Moist Below	Jake Lucyshyn
B00266375	410841	6816401	8/6/2017			KZK	15	B	Brown	20		60	20		Alpine	Moist Below	Jake Lucyshyn
B00266376	410742	6816399	8/6/2017			KZK	20	B	Brown	60		10	10	20	Alpine	Moist Below	Jake Lucyshyn
B00266377	410749	6816296	8/6/2017			KZK	15	B	Brown	20		70	10		Alpine	Moist Below	Jake Lucyshyn
B00266378	410842	6816291	8/6/2017			KZK	10	B	Black	30		50	10	10	Alpine	Moist Below	Jake Lucyshyn

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
B00266379	410959	6816206	8/6/2017			KZK	15	B	Brown	30		60		10	Alpine	Moist Below	Jake Lucyshyn
B00266380	411048	6816401	8/6/2017			KZK	15	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
B00266381	411053	6816400	8/6/2017	DUP1	B00266380	KZK	20	B	Brown	20		70	10		Alpine	Moist Below	Jake Lucyshyn
B00266382	412245	6813401	8/7/2017			KZK	15	B	Brown	20		70	10		Alpine	Moist Below	Jake Lucyshyn
B00266383	412245	6813500	8/7/2017			KZK	10	B	Brown	10		30		60	Alpine	Moist Below	Jake Lucyshyn
B00266384	412245	6813601	8/7/2017			KZK	15	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
B00266385	412246	6813695	8/7/2017			KZK	15	B	Brown	10		70	10	10	Alpine	Moist Below	Jake Lucyshyn
B00266386	412242	6813800	8/7/2017			KZK	15	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
B00266387	412249	6813904	8/7/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Jake Lucyshyn
B00266388	412245	6813995	8/7/2017			KZK	20	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
B00266389	412241	6814099	8/7/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
B00266390	412244	6814201	8/7/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
B00266391	412243	6814303	8/7/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
B00266392	412247	6814402	8/7/2017			KZK	20	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
B00266393	412243	6814503	8/7/2017			KZK	25	B	Grey	20	10	70			Alpine	Moist Below	Jake Lucyshyn
B00266394	412244	6814598	8/7/2017			KZK	25	B	Brown	20		60	10	10	Alpine	Moist Below	Jake Lucyshyn
B00266395	412248	6814700	8/7/2017			KZK	15	B	Brown	10		60		30	Alpine	Moist Below	Jake Lucyshyn
B00266396	412247	6814802	8/7/2017			KZK	10	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
B00266397	412246	6814898	8/7/2017			KZK	20	B	Black	20		80			Alpine	Moist Below	Jake Lucyshyn
B00266398	412245	6815001	8/7/2017			KZK	20	B	Grey	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
B00266399	412246	6815102	8/7/2017			KZK	15	B	Brown	10		50		40	Alpine	Moist Below	Jake Lucyshyn
B00266400			8/7/2017	BLANK		KZK											Jake Lucyshyn
B00292501	407747	6813096	7/26/2017			KZK	25	B	Brown			60	20	20	Alpine		Mackenzie Hett
B00292502	407744	6813197	7/26/2017			KZK	20	B	Brown			80		20	Alpine		Mackenzie Hett
B00292503	407744	6813301	7/26/2017			KZK	30	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292504	407740	6813403	7/26/2017			KZK	25	B	Brown			40	50	10	Alpine	H2O @ 20	Mackenzie Hett
B00292505	407740	6813503	7/26/2017			KZK	20	B	Brown			60	30	10	Alpine		Mackenzie Hett
B00292506	407743	6813606	7/26/2017			KZK	20	B	Brown			50	25	25	Alpine		Mackenzie Hett
B00292507	407746	6813707	7/26/2017			KZK	25	B	Red Brown		10	80		10	Brush		Mackenzie Hett

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
B00292508	407747	6813804	7/26/2017			KZK	25	B	Brown	10		70		20	Brush		Mackenzie Hett
B00292509	407746	6813903	7/26/2017			KZK	30	B	Red Brown			60	30	10	Alpine		Mackenzie Hett
B00292510	407742	6814003	7/26/2017			KZK	15	B	Red Brown	20		60		20	Alpine		Mackenzie Hett
B00292511	407747	6814105	7/26/2017			KZK	15	B	Brown			70		30	Brush		Mackenzie Hett
B00292512	407745	6814206	7/26/2017			KZK	20	B	Red Brown			80	20		Alpine		Mackenzie Hett
B00292513	407840	6814300	7/26/2017			KZK	15	B	Brown			70		30	Alpine		Mackenzie Hett
B00292514	407848	6814202	7/26/2017			KZK	20	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292515	407843	6814106	7/26/2017			KZK	20	B	Brown	10		60		30	Brush		Mackenzie Hett
B00292516	407838	6813993	7/26/2017			KZK	20	B	Brown			60		40	Brush		Mackenzie Hett
B00292517	407840	6813898	7/26/2017			KZK	15	B	Brown		50	50			Alpine		Mackenzie Hett
B00292518	407848	6813795	7/26/2017			KZK	25	B	Brown			90		10	Alpine		Mackenzie Hett
B00292519	407841	6813693	7/26/2017			KZK	25	B	Brown			90		10	Alpine		Mackenzie Hett
B00292520	407853	6813596	7/26/2017			KZK	25	B	Grey	20		80			Alpine		Mackenzie Hett
B00292521	407850	6813498	7/26/2017			KZK	20	B	Grey			40	40	20	Alpine		Mackenzie Hett
B00292522	407839	6813402	7/26/2017			KZK	20	B	Brown			80		20	Alpine		Mackenzie Hett
B00292523	407840	6813300	7/26/2017			KZK	20	B	Grey			50	50		Alpine		Mackenzie Hett
B00292524	407846	6813194	7/26/2017			KZK	25	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292525	407842	6813100	7/26/2017			KZK	15	B	Grey			50	50		Alpine		Mackenzie Hett
B00292526	407942	6813094	7/26/2017			KZK	20	B	Brown			70	20	10	Alpine		Mackenzie Hett
B00292527	408037	6813106	7/27/2017			KZK	15	B	Brown			60	40		Alpine		Mackenzie Hett
B00292528	408037	6813211	7/27/2017			KZK	25	B	Brown			50	50		Alpine		Mackenzie Hett
B00292529	408062	6813305	7/27/2017			KZK	20	B	Grey	20		80			Alpine		Mackenzie Hett
B00292530	408044	6813402	7/27/2017			KZK	15	B	Brown	40		60			Alpine	H2O @ 10	Mackenzie Hett
B00292531	408051	6813505	7/27/2017			KZK	15	B	Brown			60	20	20	Alpine		Mackenzie Hett
B00292532	408058	6813597	7/27/2017			KZK	20	B	Brown			30	60	10	Alpine		Mackenzie Hett
B00292533	408063	6813693	7/27/2017			KZK	20	B	Brown			50	40	10	Alpine		Mackenzie Hett
B00292534	408032	6813805	7/27/2017			KZK	20	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292535	408043	6813900	7/27/2017			KZK	20	B	Grey			40	40	20	Alpine		Mackenzie Hett
B00292536	408039	6813998	7/27/2017			KZK	20	B	Brown			50	30	20	Alpine		Mackenzie Hett

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B00292537	408039	6814098	7/27/2017			KZK	20	B	Brown			35	45	20	Alpine		Mackenzie Hett
B00292538	408055	6814195	7/27/2017			KZK	20	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292539	408235	6813897	7/27/2017			KZK	20	B	Brown			50	50		Alpine		Mackenzie Hett
B00292540	408235	6813897	7/27/2017	DUP1	B00292539	KZK	20	B	Brown			50	50		Alpine		Mackenzie Hett
B00292541	408243	6813788	7/27/2017			KZK	25	B	Brown			90		10	Alpine		Mackenzie Hett
B00292542	408253	6813689	7/27/2017			KZK	20	B	Brown			80		20	Alpine		Mackenzie Hett
B00292543	408266	6813601	7/27/2017			KZK	20	B	Red Brown		50	50			Alpine		Mackenzie Hett
B00292544	408259	6813495	7/29/2017			KZK	20	B	Brown			90		10	Alpine		Mackenzie Hett
B00292545	409739	6813405	7/29/2017			KZK	20	B	Brown			70		30	Alpine		Mackenzie Hett
B00292546	409649	6813408	7/29/2017			KZK	15	B	Black	30		70			Alpine		Mackenzie Hett
B00292547	409550	6813401	7/28/2017			KZK	15	C	Brown	40		60			Alpine		Mackenzie Hett
B00292548	408253	6813403	7/28/2017			KZK	25	B	Brown			70	20	10	Alpine		Mackenzie Hett
B00292549	408243	6813298	7/28/2017			KZK	15	B	Brown		30	30	40		Alpine		Mackenzie Hett
B00292550	408246	6813206	7/28/2017			KZK	15	C	Grey	10		90			Alpine		Mackenzie Hett
B00292551	408265	6813090	7/28/2017			KZK	15	C	Brown			40	40	20	Alpine		Mackenzie Hett
B00292552	408451	6813106	7/28/2017			KZK	20	C	Brown			80		20	Alpine		Mackenzie Hett
B00292553	408445	6813204	7/28/2017			KZK	15	C	Brown	30		40		30	Alpine		Mackenzie Hett
B00292554	408442	6813299	7/28/2017			KZK	20	B	Brown			60	40		Alpine	H2O @10	Mackenzie Hett
B00292555	408456	6813401	7/28/2017			KZK	15	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292556	408437	6813499	7/28/2017			KZK	15	B	Brown	30		40		30	Alpine		Mackenzie Hett
B00292557	408448	6813588	7/28/2017			KZK	20	B	Brown			60	30	10	Alpine		Mackenzie Hett
B00292558	408624	6813398	7/28/2017			KZK	20	B	Brown			80		20	Alpine		Mackenzie Hett
B00292559	408644	6813291	7/28/2017			KZK	20	B	Brown			70	20	10	Alpine		Mackenzie Hett
B00292560			7/28/2017	BLANK		KZK											Mackenzie Hett
B00292561	408639	6813202	7/28/2017			KZK	15	B	Brown			60	30	10	Alpine		Mackenzie Hett
B00292562	408642	6813098	7/28/2017			KZK	18	B	Brown	20	20	60			Alpine		Mackenzie Hett
B00292563	409248	6813220	7/28/2017			KZK	15	B	Brown			80		20	Alpine		Mackenzie Hett
B00292564	409339	6813201	7/28/2017			KZK	15	B	Brown	40		30	30		Alpine		Mackenzie Hett
B00292565	409439	6813205	7/28/2017			KZK	25	B	Brown			70		30	Alpine		Mackenzie Hett

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B00292566	409546	6813202	7/28/2017			KZK	20	B	Black			40		60	Alpine		Mackenzie Hett
B00292567	409638	6813216	7/28/2017			KZK	20	B	Grey			60	20	20	Alpine		Mackenzie Hett
B00292568	409742	6813201	7/28/2017			KZK	15	B	Brown			60	20	20	Alpine		Mackenzie Hett
B00292569	409837	6813203	7/28/2017			KZK	20	B	Grey	40		60			Alpine		Mackenzie Hett
B00292571	409951	6813402	7/28/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292572	409847	6813400	7/28/2017			KZK	20	B	Red Brown	20		80			Alpine		Mackenzie Hett
B00292573	409450	6813394	7/29/2017			KZK	20	B	Brown			70	20	10	Alpine		Mackenzie Hett
B00292574	409351	6813400	7/29/2017			KZK	20	B	Brown			70	20	10	Alpine		Mackenzie Hett
B00292575	409242	6813398	7/29/2017			KZK	20	B	Brown			70	20	10	Alpine		Mackenzie Hett
B00292576	409141	6813400	7/29/2017			KZK	20	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292577	409050	6813400	7/29/2017			KZK	25	B	Black	30		70			Alpine		Mackenzie Hett
B00292578	408945	6813604	7/29/2017			KZK	20	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292579	409043	6813612	7/29/2017			KZK	25	B	Grey	20		80			Brush		Mackenzie Hett
B00292580	409043	6813612	7/29/2017	DUP1	B00292579	KZK	25	B	Grey	10		90			Alpine		Mackenzie Hett
B00292581	409145	6813606	7/29/2017			KZK	20	B	Brown			80		20	Brush		Mackenzie Hett
B00292582	409241	6813599	7/29/2017			KZK	25	B	Brown	30		70			Alpine		Mackenzie Hett
B00292583	409442	6813608	7/29/2017			KZK	20	B	Brown			30	30	40	Brush		Mackenzie Hett
B00292584	409540	6813604	7/29/2017			KZK	25	B	Brown			30	70		Alpine		Mackenzie Hett
B00292585	409634	6813598	7/29/2017			KZK	20	B	Grey	20		80			Alpine		Mackenzie Hett
B00292586	409744	6813609	7/29/2017			KZK	20	B	Grey	10		70	20		Alpine		Mackenzie Hett
B00292587	409735	6813698	7/29/2017			KZK	15	B	Grey	10		70	20		Alpine		Mackenzie Hett
B00292588	409639	6813697	7/29/2017			KZK	20	B	Brown	20		80			Alpine		Mackenzie Hett
B00292589	409542	6813698	7/29/2017			KZK	25	B	Grey			40	40	20	Alpine		Mackenzie Hett
B00292590	409445	6813696	7/29/2017			KZK	25	B	Brown			70	10	20	Alpine		Mackenzie Hett
B00292591	409339	6813690	7/29/2017			KZK	20	B	Brown	30		70			Alpine		Mackenzie Hett
B00292592	409246	6813698	7/29/2017			KZK	25	B	Brown			80		20	Alpine		Mackenzie Hett
B00292593	409141	6813697	7/29/2017			KZK	20	B	Black	30		70			Alpine		Mackenzie Hett
B00292594	409047	6813699	7/29/2017			KZK	25	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292595	408843	6813700	7/29/2017			KZK	15	B	Brown	40		60			Alpine		Mackenzie Hett

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
B00292596	408748	6813795	7/29/2017			KZK	20	B	Brown			70	20	10	Alpine		Mackenzie Hett
B00292597	409834	6813614	7/30/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292598	409743	6813795	7/30/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292599	409640	6813799	7/30/2017			KZK	25	B	Brown			90		10	Alpine		Mackenzie Hett
B00292600	408943	6813691	7/29/2017			KZK	25	B	Brown			70	20	10	Alpine	Missed Blank	Mackenzie Hett
B00292601	409531	6813793	7/30/2017			KZK	15	B	Brown			20	70	10	Alpine		Mackenzie Hett
B00292602	409432	6813806	7/30/2017			KZK	30	B	Brown	30		60		10	Alpine		Mackenzie Hett
B00292603	409339	6813802	7/30/2017			KZK	20	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292604	409235	6813795	7/30/2017			KZK	35	B	Grey			40	40	20	Alpine	Auger	Mackenzie Hett
B00292605	409134	6813792	7/30/2017			KZK	25	B	Brown			80	10	10	Alpine		Mackenzie Hett
B00292606	409043	6813798	7/30/2017			KZK	40	B	Brown	40		50	10		Alpine	Auger	Mackenzie Hett
B00292607	408946	6813795	7/30/2017			KZK	25	B	Brown	10		80		10	Brush		Mackenzie Hett
B00292608	408845	6813792	7/30/2017			KZK	15	B	Red Brown			10	20	70	Alpine		Mackenzie Hett
B00292609	408762	6813911	7/30/2017			KZK	20	B	Brown			80	10	10	Alpine		Mackenzie Hett
B00292610	408848	6813907	7/30/2017			KZK	20	B	Red Brown			80	10	10	Alpine		Mackenzie Hett
B00292611	408942	6813904	7/30/2017			KZK	25	B	Brown			10	40	50	Alpine		Mackenzie Hett
B00292612	409043	6813915	7/30/2017			KZK	25	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292613	409144	6813907	7/30/2017			KZK	10	B	Brown	10		80		10	Brush		Mackenzie Hett
B00292614	409248	6813907	7/30/2017			KZK	13	B	Black	30		50		20	Alpine		Mackenzie Hett
B00292615	409339	6813904	7/30/2017			KZK	20	B	Brown			60	40		Alpine		Mackenzie Hett
B00292616	409224	6814000	7/30/2017			KZK	20	B	Brown	30		70			Alpine		Mackenzie Hett
B00292617	409335	6814000	7/30/2017			KZK	25	B	Brown			50	10	40	Alpine		Mackenzie Hett
B00292618	409144	6813997	7/30/2017			KZK	35	B	Brown	10		60		30	Brush		Mackenzie Hett
B00292619	409035	6813996	7/30/2017			KZK	15	B	Black	80		10		10	Alpine		Mackenzie Hett
B00292620	409035	6813996	7/30/2017	DUP1	B00292619	KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
B00292621	408933	6813994	7/30/2017			KZK	20	B	Grey	10		90			Alpine		Mackenzie Hett
B00292622	408851	6813998	7/30/2017			KZK	30	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292623	408739	6813996	7/30/2017			KZK	30	B	Brown	20		60		20	Alpine		Mackenzie Hett
B00292624	408641	6813998	7/30/2017			KZK	25	B	Grey	10		70		20	Alpine		Mackenzie Hett

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B00292625	408549	6813989	7/30/2017			KZK	15	B	Red Brown	10		70		20	Alpine		Mackenzie Hett
B00292626	408344	6814095	7/30/2017			KZK	25	B	Black	70		30			Alpine		Mackenzie Hett
B00292627	408452	6814109	7/30/2017			KZK	10	B	Grey	20		60	10	10	Alpine		Mackenzie Hett
B00292628	408542	6814109	7/30/2017			KZK	10	B	Grey	10		10	20	60	Alpine		Mackenzie Hett
B00292629	408640	6814098	7/30/2017			KZK	10	B	Red Brown	20		10	30	40	Alpine		Mackenzie Hett
B00292630	408740	6814092	7/30/2017			KZK	15	B	Red Brown	10		80		10	Alpine		Mackenzie Hett
B00292631	408840	6814092	7/30/2017			KZK	25	B	Black	35		15	15	35	Alpine		Mackenzie Hett
B00292632	408944	6814094	7/30/2017			KZK	20	B	Black	40		60			Alpine		Mackenzie Hett
B00292633	409339	6813611	7/30/2017			KZK	25	B	Brown	30		70			Brush	Auger	Mackenzie Hett
B00292634	409039	6814190	7/31/2017			KZK	25	B	Black	20		70		10	Alpine		Mackenzie Hett
B00292635	408936	6814201	7/31/2017			KZK	25	B	Black	30		40		30	Alpine		Mackenzie Hett
B00292636	408823	6814202	7/31/2017			KZK	25	B	Brown	10		40	40	10	Alpine		Mackenzie Hett
B00292637	408733	6814204	7/31/2017			KZK	15	B	Black	20		60		20	Alpine		Mackenzie Hett
B00292638	408641	6814192	7/31/2017			KZK	30	B	Brown	15		35	15	35	Alpine		Mackenzie Hett
B00292639	408544	6814195	7/31/2017			KZK	15	B	Grey	20		70		10	Alpine		Mackenzie Hett
B00292640			7/31/2017	BLANK		KZK											Mackenzie Hett
B00292641	408449	6814197	7/31/2017			KZK	15	B	Brown	10		90			Alpine		Mackenzie Hett
B00292642	408350	6814184	7/31/2017			KZK	10	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292643	408251	6814201	7/31/2017			KZK	20	B	Brown	10		30	40	20	Alpine		Mackenzie Hett
B00292644	408149	6814194	7/31/2017			KZK	25	B	Brown	10		40	10	40	Alpine		Mackenzie Hett
B00292645	408256	6814308	7/31/2017			KZK	20	B	Grey	10		40	10	40	Alpine		Mackenzie Hett
B00292646	408343	6814307	7/31/2017			KZK	40	B	Grey		10	10	70	10	Alpine	Auger	Mackenzie Hett
B00292647	408446	6814311	7/31/2017			KZK	50	B	Grey	10	40	40	10		Alpine	Auger	Mackenzie Hett
B00292648	408540	6814300	7/31/2017			KZK	50	B	Brown	10	40	40	10		Alpine	Auger	Mackenzie Hett
B00292649	408640	6814304	7/31/2017			KZK	30	B	Grey	10	10	50	10	20	Alpine		Mackenzie Hett
B00292650	408750	6814303	7/31/2017			KZK	20	B	Black	60		20	10	10	Alpine		Mackenzie Hett
B00292651	413450	6815898	8/1/2017			KZK	40	B	Black	80	10	10			Alpine		Mackenzie Hett
B00292652	413439	6815792	8/1/2017			KZK	20	B	Black	10		60		30	Alpine		Mackenzie Hett
B00292653	413440	6815702	8/1/2017			KZK	20	B	Black	10		60		30	Alpine		Mackenzie Hett

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B00292654	413447	6815608	8/1/2017			KZK	20	B	Brown	10	20	20	30	20	Alpine		Mackenzie Hett
B00292655	413436	6815504	8/1/2017			KZK	15	B	Brown			60		40	Alpine		Mackenzie Hett
B00292656	413444	6815406	8/1/2017			KZK	20	B	Grey		40	40		20	Alpine		Mackenzie Hett
B00292657	413449	6815310	8/1/2017			KZK	30	B	Grey	10	30	40	10	10	Alpine		Mackenzie Hett
B00292658	413451	6815208	8/1/2017			KZK	20	B	Brown		80	10		10	Alpine		Mackenzie Hett
B00292659	413450	6815098	8/1/2017			KZK	30	B	Grey	10	20	40	10	20	Alpine		Mackenzie Hett
B00292660	413450	6815098	8/1/2017	DUP1	B00292659	KZK	30	B	Grey	10	20	40	10	20	Alpine		Mackenzie Hett
B00292661	413450	6814990	8/1/2017			KZK	20	B	Brown	20		60		20	Alpine		Mackenzie Hett
B00292662	413446	6814905	8/1/2017			KZK	20	B	Brown			20	40	40	Alpine		Mackenzie Hett
B00292663	413438	6814797	8/1/2017			KZK	25	B	Brown	10		60		30	Alpine		Mackenzie Hett
B00292664	413446	6814704	8/1/2017			KZK	20	B	Brown	10		60	20	10	Alpine		Mackenzie Hett
B00292665	413455	6814600	8/1/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292666	413461	6814509	8/1/2017			KZK	15	B	Red Brown			80		20	Alpine		Mackenzie Hett
B00292667	413454	6814394	8/1/2017			KZK	20	B	Brown	10		20		70	Alpine		Mackenzie Hett
B00292668	413452	6814295	8/1/2017			KZK	30	B	Grey	15	35	35		15	Alpine	Auger	Mackenzie Hett
B00292669	413444	6814178	8/1/2017			KZK	10	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292670	413433	6814100	8/1/2017			KZK	15	B	Brown	20		80			Alpine		Mackenzie Hett
B00292671	413433	6814004	8/1/2017			KZK	10	B	Brown	40		60			Alpine		Mackenzie Hett
B00292672	413440	6813901	8/1/2017			KZK	15	B	Brown	20		50		30	Alpine		Mackenzie Hett
B00292673	413452	6813807	8/1/2017			KZK	15	B	Black	40		60			Alpine		Mackenzie Hett
B00292674	413446	6813705	8/1/2017			KZK	25	B	Black	60		40			Alpine		Mackenzie Hett
B00292675	413436	6813604	8/1/2017			KZK	20	B	Red Brown	30		40		30	Alpine		Mackenzie Hett
B00292676	413441	6813501	8/1/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292677	413451	6813394	8/1/2017			KZK	25	B	Grey	40		60			Alpine		Mackenzie Hett
B00292678	413453	6813294	8/1/2017			KZK	25	B	Brown	20		60		20	Alpine		Mackenzie Hett
B00292679	413453	6813194	8/1/2017			KZK	10	B	Brown	20		80			Alpine		Mackenzie Hett
B00292680			8/1/2017	BLANK		KZK											Mackenzie Hett
B00292681	413454	6813099	8/1/2017			KZK	15	B	Brown	20		20		60	Alpine		Mackenzie Hett
B00292682	413453	6812997	8/1/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
B00292683	413350	6812900	8/1/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292684	413338	6813002	8/1/2017			KZK	20	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292685	413343	6813112	8/1/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292686	413346	6813196	8/1/2017			KZK	15	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292687	413352	6813296	8/1/2017			KZK	20	B	Brown	40		60			Alpine		Mackenzie Hett
B00292688	413345	6813398	8/1/2017			KZK	25	B	Brown			70	20	10	Alpine		Mackenzie Hett
B00292689	413341	6813495	8/1/2017			KZK	15	B	Brown	20		80			Alpine		Mackenzie Hett
B00292690	413349	6813597	8/1/2017			KZK	20	B	Brown	30		70			Alpine		Mackenzie Hett
B00292691	413353	6813699	8/1/2017			KZK	25	B	Brown	20		80			Alpine		Mackenzie Hett
B00292692	413350	6813795	8/1/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292693	413348	6813894	8/1/2017			KZK	15	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292694	413353	6814005	8/1/2017			KZK	20	B	Brown	20		80			Alpine		Mackenzie Hett
B00292695	413346	6814098	8/1/2017			KZK	20	B	Brown			80		20	Alpine		Mackenzie Hett
B00292696	413342	6814200	8/1/2017			KZK	15	B	Brown	10		90			Alpine		Mackenzie Hett
B00292697	413347	6814300	8/1/2017			KZK	20	B	Brown	30		50		20	Alpine		Mackenzie Hett
B00292698	413350	6814398	8/1/2017			KZK	10	B	Brown	30		60		10	Alpine		Mackenzie Hett
B00292699	413345	6814495	8/1/2017			KZK	10	B	Red Brown	10		70		20	Alpine		Mackenzie Hett
B00292700	413345	6814495	8/1/2017	DUP1	B00292699	KZK	10	B	Red Brown	10		70		20	Alpine		Mackenzie Hett
B00292701	413345	6814592	8/1/2017			KZK	10	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292702	413345	6814694	8/1/2017			KZK	20	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292703	413339	6814788	8/1/2017			KZK	10	B	Brown	10		50	20	20	Alpine		Mackenzie Hett
B00292704	413343	6814896	8/1/2017			KZK	20	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292705	413345	6814994	8/1/2017			KZK	15	B	Red Brown			30	40	30	Alpine		Mackenzie Hett
B00292706	413339	6815097	8/1/2017			KZK	15	B	Black	40		40		20	Alpine		Mackenzie Hett
B00292707	413340	6815195	8/1/2017			KZK	20	B	Brown	10		60		30	Alpine		Mackenzie Hett
B00292708	413348	6815289	8/1/2017			KZK	35	B	Grey	10	20	50	10	10	Alpine		Mackenzie Hett
B00292709	413346	6815394	8/1/2017			KZK	20	B	Grey		10	60		30	Alpine		Mackenzie Hett
B00292710	413338	6815499	8/1/2017			KZK	15	B	Black	40		40		20	Alpine		Mackenzie Hett
B00292711	413350	6815594	8/1/2017			KZK	35	B	Brown	10	40	40	10		Alpine		Mackenzie Hett

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B00292712	408849	6814296	7/31/2017			KZK	45	B	Grey	10		80	10		Alpine	Auger	Mackenzie Hett
B00292713	408939	6814297	7/31/2017			KZK	20	B	Brown	30		60		10	Alpine		Mackenzie Hett
B00292714	409050	6814303	7/31/2017			KZK	25	B	Brown						Alpine		Mackenzie Hett
B00292715	409140	6814302	7/31/2017			KZK	10	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292716	408732	6814506	7/31/2017			KZK	10	B	Brown	10		10	80		Alpine		Mackenzie Hett
B00292717	408635	6814497	7/31/2017			KZK	45	B	Black	30		60	10		Alpine	Auger	Mackenzie Hett
B00292718	408534	6814502	7/31/2017			KZK	25	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292719	408440	6814493	7/31/2017			KZK	20	B	Brown	10			80	10	Brush		Mackenzie Hett
B00292720	413346	6815693	8/1/2017			KZK	20	B	Grey	30		70			Alpine		Mackenzie Hett
B00292721	408347	6814491	7/31/2017			KZK	45	B	Brown	10		80		10	Brush	Auger	Mackenzie Hett
B00292722	408234	6814496	7/31/2017			KZK	15	B	Brown	20		60	10	10	Brush		Mackenzie Hett
B00292723	413351	6815796	8/1/2017			KZK	30	B	Black	30		50		20	Alpine		Mackenzie Hett
B00292725	413253	6815900	8/2/2017			KZK	25	B	Grey	30		50		20	Alpine		Mackenzie Hett
B00292726	413238	6815806	8/2/2017			KZK	15	B	Grey			40	40	20	Alpine		Mackenzie Hett
B00292727	413240	6815706	8/2/2017			KZK	20	B	Grey	20		40		40	Alpine		Mackenzie Hett
B00292728	413240	6815605	8/2/2017			KZK	15	B	Grey	30		40		30	Alpine		Mackenzie Hett
B00292729	413255	6815499	8/2/2017			KZK	40	B	Grey	10	10	60		20	Alpine		Mackenzie Hett
B00292730	413247	6815395	8/2/2017			KZK	10	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292731	413251	6815298	8/2/2017			KZK	15	B	Brown	20		60		20	Alpine		Mackenzie Hett
B00292732	413251	6815195	8/2/2017			KZK	15	B	Brown	20		60		20	Alpine		Mackenzie Hett
B00292733	413255	6815101	8/2/2017			KZK	20	B	Brown			60	20	20	Alpine		Mackenzie Hett
B00292734	413248	6814996	8/2/2017			KZK	10	B	Brown	10		60		30	Alpine		Mackenzie Hett
B00292735	413248	6814903	8/2/2017			KZK	20	B	Brown	40		40		20	Alpine		Mackenzie Hett
B00292736	413241	6814801	8/2/2017			KZK	15	B	Brown			80		20	Alpine		Mackenzie Hett
B00292737	413248	6814703	8/2/2017			KZK	20	B	Brown	20		40		40	Alpine		Mackenzie Hett
B00292738	413253	6814602	8/2/2017			KZK	15	B	Grey	10	30	60			Alpine		Mackenzie Hett
B00292739	413250	6814505	8/2/2017			KZK	10	B	Brown	20		50		30	Alpine		Mackenzie Hett
B00292740			8/2/2017	BLANK		KZK											Mackenzie Hett
B00292741	413255	6814396	8/2/2017			KZK	20	B	Brown	10		90			Alpine		Mackenzie Hett

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B00292742	413256	6814302	8/2/2017			KZK	15	B	Brown	30		70			Alpine		Mackenzie Hett
B00292743	413247	6814211	8/2/2017			KZK	10	B	Brown	30		60		10	Alpine		Mackenzie Hett
B00292744	413242	6814103	8/2/2017			KZK	20	B	Grey	10	10	50	20	10	Alpine		Mackenzie Hett
B00292745	413243	6814000	8/2/2017			KZK	15	B	Brown	20		60		20	Alpine		Mackenzie Hett
B00292746	413234	6813900	8/2/2017			KZK	10	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292747	413241	6813822	8/2/2017			KZK	15	B	Brown	40		60			Alpine		Mackenzie Hett
B00292748	413248	6813709	8/2/2017			KZK	15	B	Brown	40		60			Alpine		Mackenzie Hett
B00292749	413244	6813581	8/2/2017			KZK	10	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292750	413248	6813506	8/2/2017			KZK	15	B	Brown	30		60		10	Alpine		Mackenzie Hett
B00292751	413257	6813402	8/2/2017			KZK	20	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292752	413251	6813287	8/2/2017			KZK	10	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292753	413247	6813189	8/2/2017			KZK	20	B	Grey	30	10	60			Alpine		Mackenzie Hett
B00292754	413149	6813197	8/2/2017			KZK	10	B	Black	30		70			Alpine		Mackenzie Hett
B00292755	413044	6813294	8/2/2017			KZK	10	B	Brown	30		60		10	Alpine		Mackenzie Hett
B00292756	413048	6813396	8/2/2017			KZK	25	B	Brown	40		60			Alpine		Mackenzie Hett
B00292757	413045	6813495	8/2/2017			KZK	10	B	Brown	10	10	70		10	Alpine		Mackenzie Hett
B00292758	413037	6813594	8/2/2017			KZK	10	B	Brown	10		60	10	20	Alpine		Mackenzie Hett
B00292759	413047	6813797	8/2/2017			KZK	15	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292760	413047	6813797	8/2/2017	DUP1	B00292759	KZK	15	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292761	413046	6813898	8/2/2017			KZK	15	B	Brown		20	40		40	Alpine		Mackenzie Hett
B00292762	413045	6814000	8/2/2017			KZK	20	B	Brown	20		40		40	Alpine		Mackenzie Hett
B00292763	413044	6814103	8/2/2017			KZK	15	B	Brown	20		40		40	Alpine		Mackenzie Hett
B00292764	413046	6814202	8/2/2017			KZK	15	B	Brown			80		20	Alpine		Mackenzie Hett
B00292765	413047	6814302	8/2/2017			KZK	15	B	Brown	20		40		40	Alpine		Mackenzie Hett
B00292766	413043	6814401	8/2/2017			KZK	15	B	Brown			70		30	Alpine		Mackenzie Hett
B00292767	413044	6814498	8/2/2017			KZK	15	B	Brown	40		50		10	Alpine		Mackenzie Hett
B00292768	413046	6814602	8/2/2017			KZK	20	B	Brown			70		30	Alpine		Mackenzie Hett
B00292769	413052	6814712	8/2/2017			KZK	20	B	Brown			80		20	Alpine		Mackenzie Hett
B00292770	413044	6814801	8/2/2017			KZK	20	B	Grey			90		10	Alpine		Mackenzie Hett

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
B00292771	413045	6814899	8/2/2017			KZK	25	B	Brown	10	10	60		20	Alpine	Auger	Mackenzie Hett
B00292772	413043	6815004	8/2/2017			KZK	20	B	Brown	30		70			Alpine		Mackenzie Hett
B00292773	413040	6815104	8/2/2017			KZK	20	B	Brown	30		60		10	Alpine		Mackenzie Hett
B00292774	413045	6815201	8/2/2017			KZK	15	B	Black	30		60		10	Alpine		Mackenzie Hett
B00292775	413043	6813194	8/2/2017			KZK	15	B	Brown	10	10	70		10	Alpine		Mackenzie Hett
B00292776	413044	6815301	8/2/2017			KZK	10	B	Brown			80		20	Alpine		Mackenzie Hett
B00292777	413044	6815402	8/2/2017			KZK	15	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292778	413046	6815505	8/2/2017			KZK	15	B	Brown	80		20			Alpine		Mackenzie Hett
B00292779	413048	6815596	8/2/2017			KZK	15	B	Brown			70		30	Alpine		Mackenzie Hett
B00292780			8/2/2017	BLANK		KZK											Mackenzie Hett
B00292781	413042	6815694	8/2/2017			KZK	15	B	Grey	30			70		Alpine		Mackenzie Hett
B00292782	413045	6815804	8/2/2017			KZK	15	B	Grey	10		20	70		Alpine		Mackenzie Hett
B00292783	413046	6815901	8/2/2017			KZK	15	B	Brown	30			30	40	Alpine	H20 @ 10	Mackenzie Hett
B00292784	412852	6813903	8/3/2017			KZK	15	B	Brown						Alpine		Mackenzie Hett
B00292785	412841	6813797	8/3/2017			KZK	15	B	Brown	20		40	20	20	Alpine		Mackenzie Hett
B00292786	412854	6813700	8/3/2017			KZK	10	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292787	412856	6813605	8/3/2017			KZK	10	B	Brown			60	10	30	Alpine		Mackenzie Hett
B00292788	412849	6813486	8/3/2017			KZK	15	B	Brown	20		60	10	10	Alpine		Mackenzie Hett
B00292789	412833	6813392	8/3/2017			KZK	10	B	Brown	10		70	10	10	Alpine		Mackenzie Hett
B00292790	412837	6813300	8/3/2017			KZK	20	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292791	412842	6813209	8/3/2017			KZK	15	B	Brown			60	20	20	Alpine		Mackenzie Hett
B00292792	412855	6813088	8/3/2017			KZK	10	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292793	412855	6812897	8/3/2017			KZK	15	B	Orange			40	20	40	Alpine		Mackenzie Hett
B00292794	412833	6812805	8/3/2017			KZK	10	B	Brown	10		60		30	Alpine		Mackenzie Hett
B00292795	412855	6812706	8/3/2017			KZK	20	B	Grey	10		70		20	Alpine		Mackenzie Hett
B00292796	412839	6812587	8/3/2017			KZK	15	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292797	412828	6812493	8/3/2017			KZK	10	B	Grey	30		70			Alpine		Mackenzie Hett
B00292798	412739	6812490	8/3/2017			KZK	20	B	Grey	30		70			Alpine		Mackenzie Hett
B00292799	412617	6812492	8/3/2017			KZK	20	B	Brown	30		60		10	Alpine		Mackenzie Hett

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B00292800	412617	6812492	8/3/2017	DUP1	B00292799	KZK	20	B	Brown	30		60		10	Alpine		Mackenzie Hett
B00292801	412519	6812496	8/3/2017			KZK	15	B	Brown	40		60			Alpine		Mackenzie Hett
B00292802	412440	6812495	8/3/2017			KZK	20	B	Brown	30		70			Alpine		Mackenzie Hett
B00292803	412342	6812490	8/3/2017			KZK	15	B	Brown	30		70			Alpine		Mackenzie Hett
B00292804	412246	6812503	8/3/2017			KZK	25	B	Grey	30		70			Brush		Mackenzie Hett
B00292805	412148	6812503	8/3/2017			KZK	30	B	Brown	30		70			Brush		Mackenzie Hett
B00292806	412051	6812507	8/3/2017			KZK	25	B	Grey	20	20	60			Brush	H2O @ 20	Mackenzie Hett
B00292807	411952	6812501	8/3/2017			KZK	25	B	Grey	20	20	60			Brush		Mackenzie Hett
B00292808	411856	6812493	8/3/2017			KZK	25	B	Grey	10	20	50		20	Alpine		Mackenzie Hett
B00292809	411753	6812506	8/3/2017			KZK	20	B	Grey	20		70		10	Alpine		Mackenzie Hett
B00292810	411653	6812498	8/3/2017			KZK	15	B	Brown	10		90			Alpine		Mackenzie Hett
B00292811	411553	6812492	8/3/2017			KZK	15	B	Brown	10		90			Alpine		Mackenzie Hett
B00292812	411453	6812504	8/3/2017			KZK	25	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292813	411348	6812500	8/3/2017			KZK	20	B	Brown			90		10	Alpine		Mackenzie Hett
B00292814	411248	6812496	8/3/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292815	411150	6812498	8/3/2017			KZK	20	B	Brown	30		50		20	Alpine		Mackenzie Hett
B00292816	411052	6812510	8/3/2017			KZK	20	B	Grey	20		70		10	Alpine		Mackenzie Hett
B00292817	410962	6812508	8/3/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292818	410842	6812508	8/3/2017			KZK	20	B	Grey	10		50		40	Alpine		Mackenzie Hett
B00292819	410851	6812583	8/3/2017			KZK	15	B	Brown	40		60			Alpine		Mackenzie Hett
B00292820			8/3/2017	BLANK		KZK											Mackenzie Hett
B00292821	410947	6812595	8/3/2017			KZK	15	B	Brown	20		60		20	Alpine		Mackenzie Hett
B00292822	411043	6812596	8/3/2017			KZK	20	B	Brown	30		50		20	Alpine		Mackenzie Hett
B00292823	411143	6812599	8/3/2017			KZK	25	B	Brown	30		70			Alpine		Mackenzie Hett
B00292824	411245	6812601	8/3/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292825	411345	6812603	8/3/2017			KZK	15	B	Brown	20		80			Alpine		Mackenzie Hett
B00292826	411444	6812604	8/3/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292827	419374	6812799	8/4/2017			KZK	20	B	Grey				70	30	Brush		Mackenzie Hett
B00292828	419380	6812853	8/4/2017			KZK	20	B	Grey				70	30	Brush		Mackenzie Hett

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B00292829	419359	6812894	8/4/2017			KZK	15	B	Grey			30	70		Brush		Mackenzie Hett
B00292830	419359	6812948	8/4/2017			KZK	10	B	Grey		10	90			Brush		Mackenzie Hett
B00292831	419359	6812999	8/4/2017			KZK	15	B	Grey	10		90			Brush		Mackenzie Hett
B00292832	419358	6813027	8/4/2017			KZK	30	B	Grey	10		80		10	Brush		Mackenzie Hett
B00292833	419358	6813053	8/4/2017			KZK	20	B	Grey	10		90			Brush		Mackenzie Hett
B00292834	419357	6813079	8/4/2017			KZK	20	B	Brown	10		90			Brush		Mackenzie Hett
B00292835	419357	6813101	8/4/2017			KZK	15	B	Brown	10		80		10	Brush		Mackenzie Hett
B00292836	419358	6813126	8/4/2017			KZK	15	B	Brown	20		80			Brush		Mackenzie Hett
B00292837	419358	6813152	8/4/2017			KZK	20	B	Brown	20		80			Brush		Mackenzie Hett
B00292838	419358	6813177	8/4/2017			KZK	20	B	Brown	10	10	70	10		Brush		Mackenzie Hett
B00292839	419359	6813204	8/4/2017			KZK	10	B	Grey	10	10	80			Brush		Mackenzie Hett
B00292840	419361	6813206	8/4/2017	DUP1	B00292839	KZK	10	B	Grey	10	10	80			Brush		Mackenzie Hett
B00292841	419367	6813226	8/4/2017			KZK	25	B	Grey	10	10	80			Brush		Mackenzie Hett
B00292842	419372	6813251	8/4/2017			KZK	15	B	Brown	10		90			Brush		Mackenzie Hett
B00292843	419374	6813274	8/4/2017			KZK	15	B	Brown	10		90			Brush		Mackenzie Hett
B00292844	419375	6813300	8/4/2017			KZK	20	B	Brown	10		90			Brush		Mackenzie Hett
B00292845	419374	6813321	8/4/2017			KZK	15	B	Black	20		80			Brush		Mackenzie Hett
B00292846	419372	6813347	8/4/2017			KZK	10	B	Grey	20		80			Brush		Mackenzie Hett
B00292847	419370	6813372	8/4/2017			KZK	25	B	Red Brown	10		90			Brush		Mackenzie Hett
B00292848	419372	6813399	8/4/2017			KZK	20	B	Red Brown	10		80		10	Brush		Mackenzie Hett
B00292849	419371	6813426	8/4/2017			KZK	15	B	Red Brown	10		90			Brush		Mackenzie Hett
B00292850	419370	6813448	8/4/2017			KZK	10	B	Red Brown	10		90			Brush		Mackenzie Hett
B00292851	419368	6813472	8/4/2017			KZK	10	B	Grey	20		80			Brush		Mackenzie Hett
B00292852	419370	6813500	8/4/2017			KZK	15	B	Grey	30		60		10	Brush		Mackenzie Hett
B00292853	419377	6813548	8/4/2017			KZK	10	B	Red Brown	10		90			Brush		Mackenzie Hett
B00292854	419381	6813600	8/4/2017			KZK	20	B	Red Brown	10		90			Brush		Mackenzie Hett
B00292855	419375	6813649	8/4/2017			KZK	25	B	Brown	20		80			Brush		Mackenzie Hett
B00292856	419372	6813697	8/4/2017			KZK	10	B	Grey	20		80			Brush		Mackenzie Hett
B00292857	419356	6813755	8/4/2017			KZK	15	B	Black	40		60			Brush		Mackenzie Hett

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B00292858	414853	6814402	8/4/2017			KZK	15	B	Red Brown	10		90			Brush		Mackenzie Hett
B00292859	414849	6814449	8/4/2017			KZK	25	B	Red Brown	10		90			Brush		Mackenzie Hett
B00292860			8/4/2017	BLANK		KZK											Mackenzie Hett
B00292861	414850	6814498	8/4/2017			KZK	20	B	Black	10		90			Brush		Mackenzie Hett
B00292862	414850	6814547	8/4/2017			KZK	15	B	Grey	10		90			Brush		Mackenzie Hett
B00292863	414851	6814598	8/4/2017			KZK	25	B	Grey	10		80		10	Brush		Mackenzie Hett
B00292864	414851	6814647	8/4/2017			KZK	25	B	Brown	20		80			Brush		Mackenzie Hett
B00292865	414851	6814697	8/4/2017			KZK	15	B	Brown	20		80			Brush		Mackenzie Hett
B00292866	414857	6814750	8/4/2017			KZK	20	B	Grey	10	10	80			Brush		Mackenzie Hett
B00292867	414831	6814800	8/4/2017			KZK	25	B	Grey	10	10	80			Brush		Mackenzie Hett
B00292868	414863	6814826	8/4/2017			KZK	15	B	Black	10		90			Brush		Mackenzie Hett
B00292869	414850	6814848	8/4/2017			KZK	30	B	Grey	10	10	80			Brush		Mackenzie Hett
B00292870	414849	6814872	8/4/2017			KZK	30	B	Grey	10	10	80			Brush		Mackenzie Hett
B00292871	414848	6814901	8/4/2017			KZK	30	B	Grey	30	10	60			Brush		Mackenzie Hett
B00292872	412848	6814206	8/5/2017			KZK	15	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292873	412848	6814299	8/5/2017			KZK	15	B	Red Brown	10		70		20	Alpine		Mackenzie Hett
B00292874	412852	6814396	8/5/2017			KZK	10	B	Brown	30		70			Alpine		Mackenzie Hett
B00292875	412847	6814501	8/5/2017			KZK	15	B	Brown	10		60		30	Alpine		Mackenzie Hett
B00292876	412851	6814600	8/5/2017			KZK	10	B	Brown	30		70			Alpine		Mackenzie Hett
B00292877	412853	6814698	8/5/2017			KZK	15	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292878	412854	6814798	8/5/2017			KZK	15	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292879	412846	6814915	8/5/2017			KZK	15	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292880	412843	6814917	8/5/2017	DUP1	B00292879	KZK	10	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292881	412848	6814997	8/5/2017			KZK	15	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292882	412854	6815100	8/5/2017			KZK	25	B	Grey	30		20	50		Alpine		Mackenzie Hett
B00292883	412853	6815200	8/5/2017			KZK	20	B	Grey	30		60		10	Alpine		Mackenzie Hett
B00292884	412863	6815324	8/5/2017			KZK	15	B	Brown			80		20	Alpine		Mackenzie Hett
B00292885	412861	6815386	8/5/2017			KZK	15	B	Brown	30		70			Alpine		Mackenzie Hett
B00292886	412852	6815509	8/5/2017			KZK	20	B	Grey	30		70			Alpine		Mackenzie Hett

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B00292887	412849	6815640	8/5/2017			KZK	15	B	Brown	30		70			Alpine		Mackenzie Hett
B00292888	412853	6815712	8/5/2017			KZK	15	B	Black	10		80		10	Alpine		Mackenzie Hett
B00292889	412846	6815795	8/5/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292890	412845	6815894	8/5/2017			KZK	15	B	Brown			80	20		Alpine		Mackenzie Hett
B00292891	412839	6815996	8/5/2017			KZK	20	B	Black	40		40		20	Alpine		Mackenzie Hett
B00292892	412846	6816089	8/5/2017			KZK	30	B	Black	40		40		20	Alpine		Mackenzie Hett
B00292893	412839	6816198	8/5/2017			KZK	25	B	Black	40		40		20	Alpine		Mackenzie Hett
B00292894	412842	6816306	8/5/2017			KZK	30	B	Grey			60		40	Alpine		Mackenzie Hett
B00292895	412836	6816397	8/5/2017			KZK	25	B	Brown	10		90			Alpine		Mackenzie Hett
B00292896	412845	6816495	8/5/2017			KZK	20	B	Black	20		80			Alpine		Mackenzie Hett
B00292897	412645	6816695	8/5/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
B00292898	412549	6816700	8/5/2017			KZK	30	B	Grey			40	40	20	Alpine		Mackenzie Hett
B00292899	412449	6816710	8/5/2017			KZK	20	B	Grey	20		60		20	Alpine		Mackenzie Hett
B00292900			8/5/2017	BLANK		KZK											Mackenzie Hett
B00292901	412331	6816713	8/5/2017			KZK	15	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292902	412251	6816706	8/5/2017			KZK	15	B	Brown			90		10	Alpine		Mackenzie Hett
B00292903	412148	6816709	8/5/2017			KZK	20	B	Black	20		80			Alpine		Mackenzie Hett
B00292904	412053	6816707	8/5/2017			KZK	20	B	Brown	10		50		40	Alpine		Mackenzie Hett
B00292905	411955	6816711	8/5/2017			KZK	20	B	Black	10		90			Brush		Mackenzie Hett
B00292906	411850	6816713	8/5/2017			KZK	20	B	Brown	30	70				Brush		Mackenzie Hett
B00292907	411858	6816902	8/5/2017			KZK	20	B	Black	20		80			Alpine		Mackenzie Hett
B00292908	411943	6816892	8/5/2017			KZK	15	B	Brown	10		90			Alpine		Mackenzie Hett
B00292909	412057	6816906	8/5/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
B00292910	412146	6816888	8/5/2017			KZK	15	B	Grey	30		70			Alpine		Mackenzie Hett
B00292911	412245	6816865	8/5/2017			KZK	20	B	Black	40		60			Alpine		Mackenzie Hett
B00292912	412357	6816877	8/5/2017			KZK	30	B	Grey	10		80		10	Alpine		Mackenzie Hett
B00292913	412445	6816891	8/5/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292914	412553	6816895	8/5/2017			KZK	15	B	Brown	20	20	60			Alpine		Mackenzie Hett
B00292915	412349	6817092	8/5/2017			KZK	20	B	Brown			80		20	Alpine		Mackenzie Hett

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B00292916	412245	6817088	8/5/2017			KZK	20	B	Grey	20	40	40			Alpine		Mackenzie Hett
B00292917	412149	6817096	8/5/2017			KZK	15	B	Brown	10		90			Alpine		Mackenzie Hett
B00292918	412051	6817096	8/5/2017			KZK	20	B	Grey		20	60		20	Alpine		Mackenzie Hett
B00292919	411951	6817083	8/5/2017			KZK	15	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292920	411948	6817086	8/5/2017	DUP1	B00292919	KZK	15	B	Brown			40	40	20	Alpine		Mackenzie Hett
B00292921	411857	6817101	8/5/2017			KZK	20	B	Brown			90		10	Alpine		Mackenzie Hett
B00292922	411753	6817100	8/5/2017			KZK	15	B	Brown			80		20	Alpine		Mackenzie Hett
B00292923	411738	6816989	8/5/2017			KZK	15	B	Grey	20		70		10	Alpine		Mackenzie Hett
B00292924	411738	6816906	8/5/2017			KZK	25	B	Grey	10	10	80			Alpine		Mackenzie Hett
B00292925	411742	6816810	8/5/2017			KZK	25	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292926	411733	6816702	8/5/2017			KZK	25	B	Black	20		40	40		Alpine		Mackenzie Hett
B00292927	411727	6816612	8/5/2017			KZK	25	B	Brown	20		80			Alpine		Mackenzie Hett
B00292928	411751	6816508	8/5/2017			KZK	20	B	Brown	20	30	40		10	Alpine		Mackenzie Hett
B00292929	411839	6816508	8/5/2017			KZK	45	B	Grey	40		40	20		Alpine		Mackenzie Hett
B00292930	411935	6816535	8/5/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292931	412041	6816482	8/5/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
B00292932	412141	6816490	8/5/2017			KZK	20	B	Black	20		80			Alpine		Mackenzie Hett
B00292933	412253	6816477	8/5/2017			KZK	15	B	Black	10		80		10	Alpine		Mackenzie Hett
B00292934	412353	6816471	8/5/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
B00292935	412469	6816468	8/5/2017			KZK	25	B	Grey			80		20	Alpine		Mackenzie Hett
B00292936	412544	6816489	8/5/2017			KZK	20	B	Grey			40	40	20	Alpine		Mackenzie Hett
B00292937	412650	6816485	8/5/2017			KZK	20	B	Grey	10	40	40		10	Alpine		Mackenzie Hett
B00292938	412748	6814006	8/6/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292939	412751	6814093	8/6/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292940			8/6/2017	BLANK		KZK											Mackenzie Hett
B00292941	412741	6814189	8/6/2017			KZK	15	B	Brown	20		80			Alpine		Mackenzie Hett
B00292942	412746	6814293	8/6/2017			KZK	10	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292943	412748	6814396	8/6/2017			KZK	10	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292944	412746	6814497	8/6/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
B00292945	412746	6814602	8/6/2017			KZK	15	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292946	412752	6814802	8/6/2017			KZK	10	B	Brown	20		70		10	Alpine		Mackenzie Hett
B00292947	412749	6814694	8/6/2017			KZK	20	B	Brown	10		90			Alpine		Mackenzie Hett
B00292948	412750	6814897	8/6/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292949	412744	6815000	8/6/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292950	412767	6815116	8/6/2017			KZK	25	B	Black	40		50		10	Alpine		Mackenzie Hett
B00292951	412753	6815196	8/6/2017			KZK	30	B	Grey	10		10	80		Alpine		Mackenzie Hett
B00292952	412740	6815282	8/6/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292953	412744	6815397	8/6/2017			KZK	15	B	Brown			90		10	Alpine		Mackenzie Hett
B00292954	412750	6815497	8/6/2017			KZK	25	B	Brown	10		90			Alpine		Mackenzie Hett
B00292955	412743	6815620	8/6/2017			KZK	15	B	Brown	20		80			Alpine		Mackenzie Hett
B00292956	412743	6815707	8/6/2017			KZK	20	B	Brown	10		90			Alpine		Mackenzie Hett
B00292957	412754	6815795	8/6/2017			KZK	15	B	Brown	10		90			Alpine		Mackenzie Hett
B00292958	412651	6815909	8/6/2017			KZK	20	B	Grey	20		70		10	Brush		Mackenzie Hett
B00292959	412655	6816010	8/6/2017			KZK	15	B	Grey	10		90			Alpine		Mackenzie Hett
B00292960	412657	6816012	8/6/2017	DUP1	B00292959	KZK	15	B	Grey	10		90			Alpine		Mackenzie Hett
B00292961	412647	6816110	8/6/2017			KZK	15	B	Black	20		60		20	Alpine		Mackenzie Hett
B00292962	412450	6816205	8/6/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
B00292963	412650	6816190	8/6/2017			KZK	25	B	Grey	10		80		10	Alpine		Mackenzie Hett
B00292964	412331	6816208	8/6/2017			KZK	20	B	Brown	10		90			Alpine		Mackenzie Hett
B00292965	412248	6816211	8/6/2017			KZK	20	B	Grey	20		40	40		Alpine		Mackenzie Hett
B00292966	412146	6816207	8/6/2017			KZK	15	B	Brown	10		70		20	Alpine		Mackenzie Hett
B00292967	412047	6816198	8/6/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
B00292968	411939	6816204	8/6/2017			KZK	20	B	Black	40		60			Alpine		Mackenzie Hett
B00292969	411852	6816203	8/6/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
B00292970	411735	6816207	8/6/2017			KZK	15	B	Brown			80		20	Alpine		Mackenzie Hett
B00292971	411635	6816196	8/6/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292972	411542	6816186	8/6/2017			KZK	20	B	Red Brown	10		80		10	Alpine		Mackenzie Hett
B00292973	411437	6816191	8/6/2017			KZK	20	B	Red Brown				80	20	Alpine		Mackenzie Hett

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B00292974	411338	6816193	8/6/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292975	411240	6816185	8/6/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
B00292976	412642	6813403	8/6/2017			KZK	15	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
B00292977	412647	6813503	8/6/2017			KZK	15	B	Brown	20	10	60		10	Alpine	Moist Below	Jake Lucyshyn
B00292978	412645	6813596	8/6/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Jake Lucyshyn
B00292979	412645	6813699	8/6/2017			KZK	20	B	Brown	20		50		30	Alpine	Moist Below	Jake Lucyshyn
B00292980			8/6/2017	BLANK		KZK											Jake Lucyshyn
B00292981	412646	6813798	8/6/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Jake Lucyshyn
B00292982	412651	6813895	8/6/2017			KZK	20	B	Brown	10		50		40	Alpine	Moist Below	Jake Lucyshyn
B00292983	412645	6813994	8/6/2017			KZK	20	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
B00292984	412643	6814094	8/6/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
B00292985	412644	6814195	8/6/2017			KZK	20	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
B00292986	412644	6814297	8/6/2017			KZK	15	B	Brown	10		70	10	10	Alpine	Moist Below	Jake Lucyshyn
B00292987	412643	6814398	8/6/2017			KZK	10	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
B00292988	412645	6814496	8/6/2017			KZK	15	B	Brown	30		60		10	Alpine	Moist Below	Jake Lucyshyn
B00292989	412645	6814602	8/6/2017			KZK	30	B	Brown	30		10	40	20	Alpine	Moist Below	Jake Lucyshyn
B00292990	412645	6814692	8/6/2017			KZK	15	B	Brown	20	10	60		10	Alpine	Moist Below	Jake Lucyshyn
B00292991	412649	6814800	8/6/2017			KZK	15	B	Brown	10		70	10	10	Alpine	Moist Below	Jake Lucyshyn
B00292992	412647	6814897	8/6/2017			KZK	20	B	Brown	20		40	30	10	Alpine	Moist Below	Jake Lucyshyn
B00292993	412646	6814999	8/6/2017			KZK	25	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
B00292994	412649	6815101	8/6/2017			KZK	15	B	Grey	10	10	80			Alpine	Moist Below	Jake Lucyshyn
B00292995	412645	6815201	8/6/2017			KZK	25	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
B00292996	412647	6815299	8/6/2017			KZK	15	B	Brown	10	20	70			Alpine	Moist Below	Jake Lucyshyn
B00292997	412648	6815398	8/6/2017			KZK	20	B	Brown	20	10	70			Alpine	Moist Below	Jake Lucyshyn
B00292998	412647	6815494	8/6/2017			KZK	20	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
B00292999	412644	6815600	8/6/2017			KZK	15	B	Grey	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
B00293000	412639	6815601	8/6/2017	DUP1	B0029299	KZK	15	B	Grey	10	20	70			Alpine	Moist Below	Jake Lucyshyn
D00004601	410245	6814101	8/13/2017			KZK	10	B	Brown	25	10	15	25	25	Alpine	Moist Below	Matt Brickenden
D00004602	410246	6814201	8/13/2017			KZK	15	B	Brown	20		35	25	20	Alpine	Moist Below	Matt Brickenden

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D00004603	410341	6814100	8/13/2017			KZK	10	B	Brown	10	10	45	35		Alpine	Moist Below	Matt Brickenden
D00004604	410345	6814201	8/13/2017			KZK	10	B	Brown	25		35	25	15	Alpine	Moist Below	Matt Brickenden
D00004605	410444	6814102	8/13/2017			KZK	10	B	Brown	25		40	25	10	Alpine	Moist Below	Matt Brickenden
D00004606	410445	6814197	8/13/2017			KZK	20	B	Brown	10		60	30		Alpine	Moist Below	Matt Brickenden
D00004607	410446	6814296	8/13/2017			KZK	20	B	Brown	10		30	40	20	Alpine	Moist Below	Matt Brickenden
D00004608	410445	6814400	8/13/2017			KZK	20	B	Orange	10		30	40	20	Alpine	Moist Below	Matt Brickenden
D00004609	407748	6814301	8/14/2017			KZK	10	B	Brown	5		60	25	10	Alpine	Moist Below	Matt Brickenden
D00004610	407945	6814300	8/14/2017			KZK	10	B	Brown	10		30	25	35	Alpine	Moist Below	Matt Brickenden
D00004611	407844	6814399	8/14/2017			KZK	5	B	Brown			60	20	20	Alpine	Moist Below	Matt Brickenden
D00004612	407743	6814500	8/14/2017			KZK	5	B	Brown			90		10	Alpine	Moist Below	Matt Brickenden
D00004613	407646	6814602	8/14/2017			KZK	10	B	Brown	5		55	20	20	Alpine	Moist Below	Matt Brickenden
D00004614	407646	6814702	8/14/2017			KZK	10	B	Brown	10		80	10		Alpine	Moist Below	Matt Brickenden
D00004615	407745	6814604	8/14/2017			KZK	15	B	Brown	10		60	20	10	Alpine	Moist Below	Matt Brickenden
D00004616	407846	6814504	8/14/2017			KZK	10	B	Brown	10		40	50		Alpine	Moist Below	Matt Brickenden
D00004617	407946	6814401	8/14/2017			KZK	5	B	Brown	5		35	50	10	Alpine	Moist Below	Matt Brickenden
D00004618	408046	6814302	8/14/2017			KZK	5	B	Brown			50	25	25	Alpine	Moist Below	Matt Brickenden
D00004619	408042	6814401	8/14/2017			KZK	10	B	Brown	10		40	15	35	Alpine	Moist Below	Matt Brickenden
D00004620	408038	6814403	8/14/2017	DUP1	D00004619	KZK	10	B	Brown	10		45	15	30	Alpine	Moist Below	Matt Brickenden
D00004621	412748	6813002	8/15/2017			KZK	15	B	Brown	10		10	40	40	Alpine	Wet 15 cm	Matt Brickenden
D00004622	412645	6812997	8/15/2017			KZK	15	B	Brown	10		40	25	25	Alpine	Moist Below	Matt Brickenden
D00004623	412547	6813003	8/15/2017			KZK	15	B	Brown	10		20	40	30	Alpine	Moist Below	Matt Brickenden
D00004624	412438	6812999	8/15/2017			KZK	15	B	Brown	10		40	30	20	Alpine	Moist Below	Matt Brickenden
D00004625	412345	6813001	8/15/2017			KZK	15	B	Brown	10		40	30	20	Alpine	Moist Below	Matt Brickenden
D00004626	412245	6812999	8/15/2017			KZK	15	B	Brown	20		30	30	20	Alpine	Moist Below	Matt Brickenden
D00004627	412147	6813002	8/15/2017			KZK	15	B	Brown	10		20	40	30	Alpine	Moist Below	Matt Brickenden
D00004628	412044	6813003	8/15/2017			KZK	15	B	Brown	10		20	40	30	Alpine	Moist Below	Matt Brickenden
D00004629	411947	6812998	8/15/2017			KZK	15	B	Brown	20		30	30	20	Alpine	Moist Below	Matt Brickenden
D00004630	411841	6813000	8/15/2017			KZK	15	B	Brown	10		40	30	20	Alpine	Moist Below	Matt Brickenden
D00004631	411746	6813002	8/15/2017			KZK	15	B	Grey	10		30	35	25	Alpine	Moist Below	Matt Brickenden

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D00004632	411643	6813000	8/15/2017			KZK	15	B	Brown	10		80	10		Alpine	Moist Below	Matt Brickenden
D00004633	411543	6812999	8/15/2017			KZK	15	B	Brown			80	10	10	Alpine	Moist Below	Matt Brickenden
D00004634	411444	6813000	8/15/2017			KZK	15	B	Brown	10		70	10	10	Alpine	Moist Below	Matt Brickenden
D00004635	411338	6812905	8/15/2017			KZK	10	B	Brown	10		80	10		Alpine	Moist Below	Matt Brickenden
D00004636	411444	6812900	8/15/2017			KZK	15	B	Red Brown			40	40	20	Alpine	Moist Below	Matt Brickenden
D00004637	411546	6812900	8/15/2017			KZK	15	B	Brown	20		40	20	20	Alpine	Moist Below	Matt Brickenden
D00004638	411644	6812904	8/15/2017			KZK	15	B	Brown	10		80	10		Alpine	Moist Below	Matt Brickenden
D00004639	411743	6812899	8/15/2017			KZK	10	B	Brown	15		50	15	20	Alpine	Moist Below	Matt Brickenden
D00004640	411742	6812903	8/15/2017	DUP1	D00004639	KZK	10	B	Brown	10		55	20	15	Alpine	Moist Below	Matt Brickenden
D00004641	411846	6812897	8/15/2017			KZK	10	B	Brown	10		30	50	10	Alpine	Moist Below	Matt Brickenden
D00004642	411943	6812900	8/15/2017			KZK	15	B	Brown	10		40	40	10	Alpine	Moist Below	Matt Brickenden
D00004643	412048	6812899	8/15/2017			KZK	15	B	Brown	20		30	30	20	Brush	Moist Below	Matt Brickenden
D00004644	412142	6812896	8/15/2017			KZK	15	B	Brown	10		45	25	20	Brush	Moist Below	Matt Brickenden
D00004645	412241	6812805	8/15/2017			KZK	15	B	Brown			50	40	10	Brush	Moist Below	Matt Brickenden
D00004646	412149	6812803	8/15/2017			KZK	15	B	Brown	10		30	50	10	Brush	Moist Below	Matt Brickenden
D00004647	412044	6812803	8/15/2017			KZK	15	B	Brown	10		30	50	10	Brush	Moist Below	Matt Brickenden
D00004648	411946	6812803	8/15/2017			KZK	15	B	Brown	15		30	40	15	Brush	Moist Below	Matt Brickenden
D00004649	411845	6812803	8/15/2017			KZK	15	B	Brown	15		20	45	20	Brush	Moist Below	Matt Brickenden
D00004650	411744	6812805	8/15/2017			KZK	15	B	Brown	10		40	35	15	Alpine	Moist Below	Matt Brickenden
D00004651	407945	6814502	8/14/2017			KZK	10	B	Brown	5		30	50	15	Alpine	Moist Below	Matt Brickenden
D00004652	407846	6814600	8/14/2017			KZK	5	B	Red Brown	10		20	30	40	Alpine	Moist Below	Matt Brickenden
D00004653	407745	6814703	8/14/2017			KZK	20	B	Red Brown	5		50	35	10	Alpine	Moist Below	Matt Brickenden
D00004654	407647	6814798	8/14/2017			KZK	15	B	Brown	10			10	80	Alpine	Moist Below	Matt Brickenden
D00004655	407744	6814801	8/14/2017			KZK	10	B	Brown			50	30	20	Alpine	Moist Below	Matt Brickenden
D00004656	407843	6814702	8/14/2017			KZK	10	B	Brown	20		45	30	5	Alpine	Moist Below	Matt Brickenden
D00004657	407946	6814602	8/14/2017			KZK	10	B	Brown	15		85			Alpine	Moist Below	Matt Brickenden
D00004658	408046	6814502	8/14/2017			KZK	15	B	Brown	10		30	30	30	Alpine	Moist Below	Matt Brickenden
D00004659	408046	6814602	8/14/2017			KZK	15	B	Brown	25		65	10		Alpine	Moist Below	Matt Brickenden
D00004660	408046	6814599	8/14/2017	DUP1	D00004659	KZK	15	B	Brown	25		55	10	10	Alpine	Moist Below	Matt Brickenden

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D00004661	407943	6814701	8/14/2017			KZK	10	B	Brown			80	10	10	Brush	Moist Below	Matt Brickenden
D00004662	407844	6814799	8/14/2017			KZK	15	B	Brown	10		90			Brush	Moist Below	Matt Brickenden
D00004663	407745	6814905	8/14/2017			KZK	15	B	Brown	10		70	20		Brush	Moist Below	Matt Brickenden
D00004664	407948	6814803	8/14/2017			KZK	20	B	Grey	25	10	20	45		Brush	Wet 10 cm	Matt Brickenden
D00004665	408045	6814701	8/14/2017			KZK	15	B	Grey	10		40	40	10	Brush	Wet 10 cm	Matt Brickenden
D00004666	408143	6814703	8/14/2017			KZK	20	B	Grey	40		40	10	10	Brush	Wet 5 cm	Matt Brickenden
D00004667	408242	6814703	8/14/2017			KZK	20	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00004668	408343	6814699	8/14/2017			KZK	15	B	Brown	10		35	35	20	Brush	Moist Below	Matt Brickenden
D00004669	408447	6814700	8/14/2017			KZK	15	B	Brown	10		30	30	30	Brush	Moist Below	Matt Brickenden
D00004670	408345	6814804	8/14/2017			KZK	15	B	Brown	10		80		10	Brush	Moist Below	Matt Brickenden
D00004671	408245	6814899	8/14/2017			KZK	20	B	Brown	60		30	10		Brush	Moist Below	Matt Brickenden
D00004672	408145	6814996	8/14/2017			KZK	15	B	Brown	25		50	10	15	Brush	Moist Below	Matt Brickenden
D00004673	408144	6814900	8/14/2017			KZK	15	B	Brown	50		40	10		Brush	Moist Below	Matt Brickenden
D00004674	408245	6814799	8/14/2017			KZK	15	B	Brown	10		60	30		Brush	Moist Below	Matt Brickenden
D00004675	408143	6814798	8/14/2017			KZK	15	B	Brown	30		60	10		Brush	Moist Below	Matt Brickenden
D00004676	408044	6814801	8/14/2017			KZK	15	B	Brown			70	20	10	Brush	Moist Below	Matt Brickenden
D00004677	408043	6814897	8/14/2017			KZK	15	B	Brown	15		65	15	5	Brush	Moist Below	Matt Brickenden
D00004678	408042	6814997	8/14/2017			KZK	10	B	Brown	10		60	15	15	Brush	Moist Below	Matt Brickenden
D00004679	407945	6815002	8/14/2017			KZK	15	B	Brown	30		15	30	25	Brush	Moist Below	Matt Brickenden
D00004680	407942	6814999	8/14/2017	DUP1	D00004679	KZK	15	B	Brown	35		45	10	10	Brush	Moist Below	Matt Brickenden
D00004681	407944	6814906	8/14/2017			KZK	20	B	Brown	55		15	30		Brush	Wet 15 cm	Matt Brickenden
D00004682	411645	6812800	8/15/2017			KZK	15	B	Brown	20	10	30	30	10	Alpine	Moist Below	Matt Brickenden
D00004683	411544	6812802	8/15/2017			KZK	15	B	Brown	10		65	10	15	Alpine	Moist Below	Matt Brickenden
D00004684	411445	6812799	8/15/2017			KZK	15	B	Brown	25		30	25	20	Alpine	Moist Below	Matt Brickenden
D00004685	411343	6812800	8/15/2017			KZK	15	B	Brown	10	10	40	20	20	Alpine	Moist Below	Matt Brickenden
D00004686	411344	6812702	8/15/2017			KZK	15	B	Brown	10		40	25	25	Alpine	Moist Below	Matt Brickenden
D00004687	411444	6812700	8/15/2017			KZK	15	B	Brown	10		50	20	20	Alpine	Moist Below	Matt Brickenden
D00004688	411542	6812698	8/15/2017			KZK	20	B	Brown	20		30	20	30	Alpine	Moist Below	Matt Brickenden
D00004689	411644	6812703	8/15/2017			KZK	25	B	Brown	40		50	10		Alpine	Wet 5 cm	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00004690	411747	6812701	8/15/2017			KZK	15	B	Brown	10		60	20	10	Alpine	Moist Below	Matt Brickenden
D00004691	410554	6812701	8/16/2017			KZK	10	B	Brown	10		20	50	20	Talus	Moist Below	Matt Brickenden
D00004692	410543	6812599	8/16/2017			KZK	10	B	Brown	10		40	30	20	Talus	Moist Below	Matt Brickenden
D00004693	410549	6812500	8/16/2017			KZK	15	B	Brown	10		30	40	20	Talus	Moist Below	Matt Brickenden
D00004694	410643	6812505	8/16/2017			KZK	10	B	Brown			30	50	20	Talus	Moist Below	Matt Brickenden
D00004695	410646	6812602	8/16/2017			KZK	15	B	Brown	20		20	40	20	Talus	Moist Below	Matt Brickenden
D00004696	410649	6812706	8/16/2017			KZK	15	B	Brown	10		70	10	10	Talus	Moist Below	Matt Brickenden
D00004697	410740	6812699	8/16/2017			KZK	15	B	Brown	10		20	50	20	Talus	Moist Below	Matt Brickenden
D00004698	410743	6812604	8/16/2017			KZK	5	B	Brown	10		40	50		Talus	Moist Below	Matt Brickenden
D00004699	410745	6812506	8/16/2017			KZK	15	B	Brown	10		20	50	20	Talus	Moist Below	Matt Brickenden
D00004700	410745	6812511	8/16/2017	DUP1	D00004699	KZK	5	B	Brown	10		10	50	30	Talus	Moist Below	Matt Brickenden
D00004701	410344	6814998	8/15/2017			KZK	15	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00004702	410440	6814995	8/15/2017			KZK	20	B	Brown	40		60			Alpine	Moist Below	Jake Lucyshyn
D00004703	410445	6814897	8/15/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00004704	410348	6814895	8/15/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00004751	410545	6815004	8/14/2017			KZK	15	B	Brown	40		50		10	Brush	Moist Below	Spencer Postman
D00004752	410540	6814901	8/14/2017			KZK	15	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00004753	410547	6814804	8/14/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00004754	410546	6814701	8/14/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00004755	410541	6814601	8/14/2017			KZK	15	B	Brown	10		50		40	Alpine	Moist Below	Spencer Postman
D00004756	410543	6814505	8/14/2017			KZK	15	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00004757	412741	6813095	8/15/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00004758	412643	6813096	8/15/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00004759	412547	6813098	8/15/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00004760	412549	6813094	8/15/2017	DUP1	D00004759	KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00004761	412443	6813098	8/15/2017			KZK	10	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00004762	412348	6813104	8/15/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00004763	412246	6813104	8/15/2017			KZK	15	B	Brown	40		50		10	Alpine	Moist Below	Spencer Postman
D00004764	412145	6813106	8/15/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00004765	412041	6813104	8/15/2017			KZK	5	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00004766	411946	6813103	8/15/2017			KZK	10	B	Brown	20		50	10	20	Alpine	Moist Below	Spencer Postman
D00004767	411851	6813104	8/15/2017			KZK	5	B	Brown	10		50		40	Alpine	Moist Below	Spencer Postman
D00004768	411746	6813100	8/15/2017			KZK	5	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00004769	411641	6813098	8/15/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00004770	411546	6813101	8/15/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00004771	411443	6813099	8/15/2017			KZK	5	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00004772	411348	6813098	8/15/2017			KZK	10	B	Brown	20	10	70			Alpine	Moist Below	Spencer Postman
D00004773	411343	6813003	8/15/2017			KZK	5	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00004774	411245	6812997	8/15/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00004775	411142	6812907	8/15/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00004776	411045	6812904	8/15/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00004777	410942	6812797	8/15/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00004778	410945	6812697	8/15/2017			KZK	5	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00004779	411044	6812700	8/15/2017			KZK	5	B	Brown	40		20		40	Alpine	Moist Below	Spencer Postman
D00004780	411050	6812699	8/15/2017	DUP1	D00004779	KZK	5	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00004781	411045	6812799	8/15/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00004782	411140	6812800	8/15/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00004783	411143	6812705	8/15/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00004784	411241	6812699	8/15/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00004785	411246	6812801	8/15/2017			KZK	5	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00004786	411246	6812900	8/15/2017			KZK	15	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00004787	411545	6812605	8/15/2017			KZK	10	B	Brown	10		50		40	Alpine	Moist Below	Spencer Postman
D00004788	411647	6812605	8/15/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00004789	411738	6812601	8/15/2017			KZK	15	B	Brown	20		50	10	20	Alpine	Moist Below	Spencer Postman
D00004790	411840	6812605	8/15/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00004791	411941	6812604	8/15/2017			KZK	10	B	Brown	20		60	10	10	Alpine	Moist Below	Spencer Postman
D00004792	412042	6812602	8/15/2017			KZK	10	B	Brown	20		50		30	Brush	Moist Below	Spencer Postman
D00004793	412141	6812603	8/15/2017			KZK	20	B	Brown	30		60		10	Brush	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00004794	412145	6812698	8/15/2017			KZK	15	B	Brown	30		50		20	Brush	Moist Below	Spencer Postman
D00004795	412046	6812702	8/15/2017			KZK	15	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00004796	411947	6812705	8/15/2017			KZK	20	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00004797	411846	6812696	8/15/2017			KZK	20	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00004798	412746	6812902	8/16/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00004799	412739	6812798	8/16/2017			KZK	5	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00004800	412732	6812786	8/16/2017	DUP1	D00004799	KZK	5	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00004801	412746	6812704	8/16/2017			KZK	5	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00004802	412741	6812603	8/16/2017			KZK	5	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00004803	412644	6812700	8/16/2017			KZK	5	B	Brown	10		50		40	Alpine	Moist Below	Spencer Postman
D00004804	412648	6812801	8/16/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00004805	412643	6812899	8/16/2017			KZK	10	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00004806	412544	6812897	8/16/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00004807	412446	6812900	8/16/2017			KZK	5	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00004808	412344	6812902	8/16/2017			KZK	5	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00004809	412245	6812904	8/16/2017			KZK	10	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00004810	412342	6812799	8/16/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00004811	412447	6812799	8/16/2017			KZK	5	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00004812	412546	6812803	8/16/2017			KZK	10	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00004813	412546	6812699	8/16/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00004814	412544	6812604	8/16/2017			KZK	10	B	Brown	20	10	50		20	Alpine	Moist Below	Spencer Postman
D00004815	412443	6812699	8/16/2017			KZK	15	B	Brown	10	10	70		10	Alpine	Moist Below	Spencer Postman
D00004816	412345	6812698	8/16/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00004817	412448	6812601	8/16/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00004818	412343	6812598	8/16/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00004819	412243	6812598	8/16/2017			KZK	20	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00004820	412247	6812612	8/16/2017	DUP1	D00004819	KZK	20	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00004821	412241	6812701	8/16/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00004822	412644	6813300	8/16/2017			KZK	5	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00004823	412647	6813201	8/16/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00004824	412544	6813199	8/16/2017			KZK	10	B	Brown	10		50		40	Alpine	Moist Below	Spencer Postman
D00004825	412447	6813200	8/16/2017			KZK	5	B	Brown	10		50		40	Talus	Moist Below	Spencer Postman
D00004826	412346	6813203	8/16/2017			KZK	10	B	Brown	10		70		20	Talus	Moist Below	Spencer Postman
D00004827	412247	6813201	8/16/2017			KZK	10	B	Brown	10		60		30	Talus	Moist Below	Spencer Postman
D00004828	412145	6813200	8/16/2017			KZK	5	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00004829	412046	6813199	8/16/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00004830	411944	6813204	8/16/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00004831	411847	6813204	8/16/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00004832	411745	6813306	8/16/2017			KZK	10	B	Brown	10		70		20	Talus	Moist Below	Spencer Postman
D00004833	411842	6813297	8/16/2017			KZK	15	B	Brown	10		70		20	Talus	Moist Below	Spencer Postman
D00004834	411947	6813299	8/16/2017			KZK	5	B	Brown	20		60		20	Talus	Moist Below	Spencer Postman
D00004835	412046	6813306	8/16/2017			KZK	15	B	Brown	20		50		30	Talus	Moist Below	Spencer Postman
D00004836	412147	6813298	8/16/2017			KZK	10	B	Brown	30		50		20	Talus	Moist Below	Spencer Postman
D00004851	410846	6812699	8/16/2017			KZK	10	B	Brown	10		60	20	10	Talus	Moist Below	Matt Brickenden
D00004852	410848	6812801	8/16/2017			KZK	5	B	Brown	10		30	30	30	Talus	Moist Below	Matt Brickenden
D00004853	410745	6812900	8/16/2017			KZK	5	B	Brown	10		20	50	20	Talus	Moist Below	Matt Brickenden
D00004854	410645	6812902	8/16/2017			KZK	5	B	Brown	10		20	40	30	Talus	Moist Below	Matt Brickenden
D00004855	410542	6813000	8/16/2017			KZK	10	B	Brown	10		20	40	30	Talus	Moist Below	Matt Brickenden
D00004856	410643	6812999	8/16/2017			KZK	15	B	Brown	20		50	20	10	Talus	Moist Below	Matt Brickenden
D00004857	410542	6813097	8/16/2017			KZK	5	B	Brown	10		10	50	30	Talus	Moist Below	Matt Brickenden
D00004858	410541	6813200	8/16/2017			KZK	5	B	Brown	10		40	30	20	Talus	Moist Below	Matt Brickenden
D00004859	410447	6813302	8/16/2017			KZK	5	B	Brown	10		30	30	30	Talus	Moist Below	Matt Brickenden
D00004860	410448	6813305	8/16/2017	DUP1	D00004859	KZK	5	B	Brown	10		30	30	30	Talus	Moist Below	Matt Brickenden
D00004861	410440	6813401	8/16/2017			KZK	5	B	Brown	10		20	40	30	Talus	Moist Below	Matt Brickenden
D00004862	410447	6813493	8/16/2017			KZK	15	B	Brown				30	70	Talus	Moist Below	Matt Brickenden
D00004863	410543	6813301	8/16/2017			KZK	10	B	Brown	10		30	30	30	Talus	Moist Below	Matt Brickenden
D00004864	410539	6813401	8/16/2017			KZK	10	B	Brown	25		40	25	10	Talus	Moist Below	Matt Brickenden
D00004865	410648	6813212	8/16/2017			KZK	5	B	Brown	10		50	30	10	Talus	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00004866	410647	6813105	8/16/2017			KZK	10	B	Brown	10		30	30	30	Talus	Moist Below	Matt Brickenden
D00004867	410744	6813002	8/16/2017			KZK	10	B	Brown	10		50	30	10	Talus	Moist Below	Matt Brickenden
D00004868	410843	6812999	8/16/2017			KZK	10	B	Brown	10		60	10	20	Talus	Moist Below	Matt Brickenden
D00004869	410942	6813100	8/16/2017			KZK	10	B	Brown	10		50	20	20	Talus	Moist Below	Matt Brickenden
D00004870	410846	6813102	8/16/2017			KZK	10	B	Brown	10		40	30	20	Talus	Moist Below	Matt Brickenden
D00004871	410748	6813099	8/16/2017			KZK	5	B	Brown	10		80	10		Talus	Moist Below	Matt Brickenden
D00004872	411241	6813498	8/16/2017			KZK	5	B	Brown	20		40	20	20	Talus	Moist Below	Matt Brickenden
D00004873	411244	6813406	8/16/2017			KZK	10	B	Brown	10		70	20		Talus	Moist Below	Matt Brickenden
D00004874	411344	6813398	8/16/2017			KZK	10	B	Brown	10		70	20		Talus	Moist Below	Matt Brickenden
D00004875	411345	6813305	8/16/2017			KZK	15	B	Brown	10		30	30	30	Talus	Moist Below	Matt Brickenden
D00004876	411346	6813212	8/16/2017			KZK	10	B	Brown	10		40	20	30	Talus	Moist Below	Matt Brickenden
D00004877	411145	6813104	8/16/2017			KZK	10	B	Brown	10		30	30	30	Talus	Moist Below	Matt Brickenden
D00004878	411044	6813005	8/16/2017			KZK	10	B	Brown	30		10	30	30	Talus	Moist Below	Matt Brickenden
D00004951	409944	6814691	8/14/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00004952	409847	6814792	8/14/2017			KZK	30	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00004953	409745	6814899	8/14/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00004954	409644	6814899	8/14/2017			KZK	30	B	Brown	10		80	10		Alpine	Moist Below	Jake Lucyshyn
D00004955	409644	6815003	8/14/2017			KZK	25	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00004956	409641	6815098	8/14/2017			KZK	30	B	Grey	10	30	60			Alpine	Moist Below	Jake Lucyshyn
D00004957	409743	6815101	8/14/2017			KZK	30	B	Grey	10	60	30			Alpine	Moist Below	Jake Lucyshyn
D00004958	409846	6815099	8/14/2017			KZK	15	B	Black	40		60			Alpine	Moist Below	Jake Lucyshyn
D00004959	409946	6815097	8/14/2017			KZK	20	B	Grey	10		60		30	Alpine	Moist Below	Jake Lucyshyn
D00004960	410045	6815100	8/14/2017			KZK	15	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00004961	410144	6815099	8/14/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00004962	410249	6815100	8/14/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00004963	410349	6815097	8/14/2017			KZK	35	B	Grey	10	70		10	10	Alpine	Moist Below	Jake Lucyshyn
D00004964	410455	6815107	8/14/2017			KZK	30	B	Brown	20		50	30		Alpine	Moist Below	Jake Lucyshyn
D00004965	410547	6815097	8/14/2017			KZK	15	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00004966	410648	6815101	8/14/2017			KZK	20	B	Brown	20		70	10		Alpine	Moist Below	Jake Lucyshyn

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00004967	410647	6815006	8/14/2017			KZK	20	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
D00004968	410645	6814905	8/14/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00004969	410644	6814800	8/14/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00004970	410643	6814702	8/14/2017			KZK	25	B	Brown	10	10	80			Alpine	Moist Below	Jake Lucyshyn
D00004971	410643	6814601	8/14/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00004972	410641	6814510	8/14/2017			KZK	20	B	Brown	20	10	70			Alpine	Moist Below	Jake Lucyshyn
D00004973	410442	6814500	8/15/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00004974	410345	6814399	8/15/2017			KZK	25	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00004975	410246	6814496	8/15/2017			KZK	25	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00004976	410150	6814599	8/15/2017			KZK	20	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00004977	410047	6814695	8/15/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00004978	409949	6814798	8/15/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00004979	409845	6814900	8/15/2017			KZK	25	B	Grey	20	10	70			Alpine	Wet 15cm	Jake Lucyshyn
D00004980	409749	6815002	8/15/2017			KZK	30	B	Grey	10		80		10	Alpine	Wet 10cm	Jake Lucyshyn
D00004981	409750	6815003	8/15/2017	DUP1	D00004980	KZK	35	B	Grey	10	10	80			Alpine	Wet 5cm	Jake Lucyshyn
D00004982	409847	6814999	8/15/2017			KZK	35	B	Brown	30		70			Alpine	Wet 10cm	Jake Lucyshyn
D00004983	409941	6814900	8/15/2017			KZK	30	B	Grey	10	30	60			Alpine	Moist Below	Jake Lucyshyn
D00004984	410045	6814796	8/15/2017			KZK	35	B	Grey	20	60	20			Alpine	Moist Below	Jake Lucyshyn
D00004985	410156	6814702	8/15/2017			KZK	25	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00004986	410247	6814600	8/15/2017			KZK	15	B	Black	40		60			Alpine	Moist Below	Jake Lucyshyn
D00004987	410349	6814498	8/15/2017			KZK	30	B	Grey	20	70			10	Alpine	Moist Below	Jake Lucyshyn
D00004988	410446	6814598	8/15/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00004989	410345	6814600	8/15/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00004990	410245	6814696	8/15/2017			KZK	25	B	Brown	10		60		30	Alpine	Moist Below	Jake Lucyshyn
D00004991	410145	6814805	8/15/2017			KZK	30	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00004992	410046	6814902	8/15/2017			KZK	25	B	Brown	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
D00004993	409947	6815006	8/15/2017			KZK	20	B	Grey	50		50			Alpine	Moist Below	Jake Lucyshyn
D00004994	410045	6814998	8/15/2017			KZK	20	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00004995	410142	6814902	8/15/2017			KZK	15	B	Black	40		60			Alpine	Moist Below	Jake Lucyshyn

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00004996	410244	6814804	8/15/2017			KZK	20	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
D00004997	410351	6814698	8/15/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00004998	410447	6814698	8/15/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00004999	410447	6814801	8/15/2017			KZK	20	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00005000	410450	6814801	8/15/2017	DUP1	D00004999	KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006101	410543	6816000	8/11/2017			KZK	20	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006102	410446	6816002	8/11/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006103	410341	6816000	8/11/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006104	410244	6816000	8/11/2017			KZK	20	B	Brown	10		60		30	Alpine	Moist Below	Jake Lucyshyn
D00006105	410144	6815999	8/11/2017			KZK	15	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006106	410044	6816001	8/11/2017			KZK	25	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006107	409944	6815998	8/11/2017			KZK	10	B	Grey	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006108	409843	6816000	8/11/2017			KZK	20	B	Grey	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006109	409744	6815998	8/11/2017			KZK	10	B	Grey	20	10	60		10	Brush	Moist Below	Jake Lucyshyn
D00006110	409648	6816000	8/11/2017			KZK	30	B	Grey	10		80		10	Brush	Moist Below	Jake Lucyshyn
D00006111	409544	6815999	8/11/2017			KZK	20	B	Grey	20		80			Brush	Moist Below	Jake Lucyshyn
D00006112	409439	6815996	8/11/2017			KZK	30	B	Grey	10		90			Brush	Moist Below	Jake Lucyshyn
D00006113	409343	6816001	8/11/2017			KZK	20	B	Brown	10	30	60			Brush	Moist Below	Jake Lucyshyn
D00006114	409246	6816200	8/11/2017			KZK	15	B	Red Brown	10		90			Brush	Moist Below	Jake Lucyshyn
D00006115	409146	6816200	8/11/2017			KZK	25	B	Red Brown	10		90			Brush	Moist Below	Jake Lucyshyn
D00006116	409045	6816198	8/11/2017			KZK	15	B	Brown	10		80		10	Brush	Moist Below	Jake Lucyshyn
D00006117	408943	6816199	8/11/2017			KZK	25	B	Grey	10	70	20			Brush	Moist Below	Jake Lucyshyn
D00006118	408840	6816193	8/11/2017			KZK	35	B	Grey	10	90				Brush	Moist Below	Jake Lucyshyn
D00006119	408747	6816199	8/11/2017			KZK	25	B	Grey	10	90				Brush	Moist Below	Jake Lucyshyn
D00006120	408645	6816197	8/11/2017			KZK	25	B	Grey	20	80				Brush	Moist Below	Jake Lucyshyn
D00006121	408547	6816204	8/11/2017			KZK	40	B	Grey	10	90				Brush	Moist Below	Jake Lucyshyn
D00006122	408443	6816203	8/11/2017			KZK	15	B	Brown	10		70		20	Brush	Moist Below	Jake Lucyshyn
D00006123	408343	6816196	8/11/2017			KZK	25	B	Brown	10		80		10	Brush	Moist Below	Jake Lucyshyn
D00006124	408241	6816194	8/11/2017			KZK	15	B	Brown	10		80		10	Brush	Moist Below	Jake Lucyshyn

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D00006125	408144	6816196	8/11/2017			KZK	10	B	Brown	10		70		20	Brush	Moist Below	Jake Lucyshyn
D00006126	408042	6816201	8/11/2017			KZK	30	B	Grey	10	70			20	Brush	Moist Below	Jake Lucyshyn
D00006127	408045	6816301	8/11/2017			KZK	20	B	Grey	10	60	20		10	Brush	Moist Below	Jake Lucyshyn
D00006128	408046	6816394	8/11/2017			KZK	15	B	Grey	10		80		10	Brush	Moist Below	Jake Lucyshyn
D00006129	408145	6816402	8/11/2017			KZK	10	B	Brown	20		70		10	Brush	Moist Below	Jake Lucyshyn
D00006130	408240	6816400	8/11/2017			KZK	15	B	Brown	10		80		10	Brush	Moist Below	Jake Lucyshyn
D00006131	408350	6816401	8/11/2017			KZK	20	B	Brown	10		80		10	Swamp	Moist Below	Jake Lucyshyn
D00006132	408445	6816400	8/11/2017			KZK	55	B	Black	40		60			Swamp	Moist Below	Jake Lucyshyn
D00006133	408544	6816400	8/11/2017			KZK	25	B	Grey	20		80			Brush	Moist Below	Jake Lucyshyn
D00006134	408648	6816399	8/11/2017			KZK	20	B	Brown	10		80		10	Brush	Moist Below	Jake Lucyshyn
D00006135	408745	6816400	8/11/2017			KZK	35	B	Brown	20		80			Brush	Moist Below	Jake Lucyshyn
D00006136	408846	6816401	8/11/2017			KZK	25	B	Grey	10	70			20	Brush	Moist Below	Jake Lucyshyn
D00006137	408944	6816402	8/11/2017			KZK	35	B	Black	20	10	70			Brush	Moist Below	Jake Lucyshyn
D00006138	409042	6816398	8/11/2017			KZK	20	B	Brown	20		70		10	Brush	Moist Below	Jake Lucyshyn
D00006139	409144	6816402	8/11/2017			KZK	25	B	Grey	10		70		20	Brush	Moist Below	Jake Lucyshyn
D00006140			8/11/2017	BLANK		KZK											Jake Lucyshyn
D00006141	409247	6816402	8/11/2017			KZK	20	B	Brown	10		60	10	20	Brush	Moist Below	Jake Lucyshyn
D00006142	409348	6816404	8/11/2017			KZK	15	B	Brown	20		70		10	Brush	Moist Below	Jake Lucyshyn
D00006143	409446	6816402	8/11/2017			KZK	20	B	Brown	10		80		10	Brush	Moist Below	Jake Lucyshyn
D00006144	409542	6816402	8/11/2017			KZK	15	B	Grey	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006145	409644	6816401	8/11/2017			KZK	25	B	Grey	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006146	409744	6816402	8/11/2017			KZK	25	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006147	409843	6816400	8/11/2017			KZK	20	B	Grey	10		60		30	Alpine	Moist Below	Jake Lucyshyn
D00006148	409945	6816399	8/11/2017			KZK	25	B	Grey	30		60		10	Alpine	Moist Below	Jake Lucyshyn
D00006149	410549	6812798	8/12/2017			KZK	10	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006150	410453	6812897	8/12/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006151	410448	6813000	8/12/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006152	410445	6813101	8/12/2017			KZK	20	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006153	410442	6813194	8/12/2017			KZK	20	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn

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D00006154	410352	6813301	8/12/2017			KZK	20	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006155	410360	6813413	8/12/2017			KZK	25	B	Brown	10		60		30	Alpine	Moist Below	Jake Lucyshyn
D00006156	410351	6813502	8/12/2017			KZK	15	B	Brown	20		50		30	Alpine	Moist Below	Jake Lucyshyn
D00006157	410349	6813600	8/12/2017			KZK	10	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006158	410343	6813695	8/12/2017			KZK	10	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006159	410454	6813596	8/12/2017			KZK	15	B	Black	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006160	410540	6813494	8/12/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006161	410541	6813493	8/12/2017	DUP1	D00006160	KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006162	410645	6813399	8/12/2017			KZK	15	B	Brown	20		50		30	Alpine	Moist Below	Jake Lucyshyn
D00006163	410744	6813399	8/12/2017			KZK	20	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006164	410645	6813502	8/12/2017			KZK	15	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006165	410546	6813597	8/12/2017			KZK	10	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006166	410542	6813702	8/12/2017			KZK	15	B	Brown	30		50		20	Alpine	Moist Below	Jake Lucyshyn
D00006167	410653	6813601	8/12/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006168	410734	6813495	8/12/2017			KZK	20	B	Brown	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006169	410760	6813595	8/12/2017			KZK	25	B	Brown	20	10	70			Alpine	Moist Below	Jake Lucyshyn
D00006170	410743	6813705	8/12/2017			KZK	15	B	Brown	40		60			Alpine	Moist Below	Jake Lucyshyn
D00006171	410746	6813802	8/12/2017			KZK	35	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
D00006172	410746	6813899	8/12/2017			KZK	15	B	Brown	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006173	410742	6814000	8/12/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006174	410745	6814101	8/12/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006175	410744	6814200	8/12/2017			KZK	10	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006176	410746	6814301	8/12/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006177	410842	6814304	8/12/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006178	410943	6814302	8/12/2017			KZK	30	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006179	410946	6814399	8/12/2017			KZK	20	B	Brown	10		60		30	Alpine	Moist Below	Jake Lucyshyn
D00006180			8/12/2017	BLANK		KZK											Jake Lucyshyn
D00006181	410945	6814499	8/12/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006182	410945	6814600	8/12/2017			KZK	15	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn

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D00006183	410947	6814701	8/12/2017			KZK	10	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006184	410945	6814800	8/12/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006185	410947	6814898	8/12/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006186	410948	6815000	8/12/2017			KZK	25	B	Black	40		60			Alpine	Moist Below	Jake Lucyshyn
D00006187	408846	6815098	8/13/2017			KZK	15	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006188	408846	6815001	8/13/2017			KZK	25	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006189	408846	6814902	8/13/2017			KZK	30	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006190	408846	6814799	8/13/2017			KZK	25	B	Black	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006191	408844	6814705	8/13/2017			KZK	20	B	Brown	10	30	60			Alpine	Moist Below	Jake Lucyshyn
D00006192	408945	6814700	8/13/2017			KZK	10	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006193	408949	6814803	8/13/2017			KZK	30	B	Grey	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
D00006194	408946	6814904	8/13/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006195	408944	6814996	8/13/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006196	408943	6815096	8/13/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006197	409044	6814993	8/13/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006198	409144	6814900	8/13/2017			KZK	15	B	Brown	10		50		40	Alpine	Moist Below	Jake Lucyshyn
D00006199	409147	6814803	8/13/2017			KZK	20	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006200	409044	6814901	8/13/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006201	412248	6815200	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006202	412246	6815301	8/7/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006203	412245	6815403	8/7/2017			KZK	15	B	Grey	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006204	412247	6815498	8/7/2017			KZK	15	B	Brown	20	10	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006205	412144	6815499	8/7/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006206	412041	6815501	8/7/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006207	411946	6815501	8/7/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006208	411841	6815497	8/7/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006209	411741	6815496	8/7/2017			KZK	15	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006210	411642	6815488	8/7/2017			KZK	15	B	Brown	20		50		30	Alpine	Moist Below	Jake Lucyshyn
D00006211	411550	6815489	8/7/2017			KZK	10	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006212	411447	6815494	8/7/2017			KZK	15	B	Brown	20	10	70			Alpine	Moist Below	Jake Lucyshyn
D00006213	411345	6815501	8/7/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006214	411242	6815502	8/7/2017			KZK	35	B	Grey	10	10	80			Alpine	Moist Below	Jake Lucyshyn
D00006215	411143	6815497	8/7/2017			KZK	15	B	Brown	20		60	10	10	Alpine	Moist Below	Jake Lucyshyn
D00006216	411041	6815499	8/7/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006217	410950	6815500	8/7/2017			KZK	15	B	Grey	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006218	410851	6815501	8/7/2017			KZK	15	B	Grey	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006219	410745	6815501	8/7/2017			KZK	20	B	Brown	30		60	10		Alpine	Moist Below	Jake Lucyshyn
D00006220	410646	6815501	8/7/2017			KZK	10	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006221	410648	6815505	8/7/2017	DUP1	D00006220	KZK	10	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006222	410548	6815494	8/7/2017			KZK	10	B	Brown	20		60	10	10	Alpine	Moist Below	Jake Lucyshyn
D00006223	410445	6815505	8/7/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006224	410355	6815504	8/7/2017			KZK	15	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006225	410248	6815492	8/7/2017			KZK	10	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006226	410146	6815504	8/7/2017			KZK	15	B	Brown	20	10	70			Alpine	Moist Below	Jake Lucyshyn
D00006227	410052	6815495	8/7/2017			KZK	30	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006228	409945	6815495	8/7/2017			KZK	25	B	Brown	20			80		Alpine	Moist Below	Jake Lucyshyn
D00006229	409844	6815504	8/7/2017			KZK	25	B	Grey	20		80			Alpine	Wet 10cm	Jake Lucyshyn
D00006230	409748	6815501	8/7/2017			KZK	10	B	Grey	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006231	409649	6815498	8/7/2017			KZK	15	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006232	409544	6815498	8/7/2017			KZK	25	B	Grey	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006233	409450	6815495	8/7/2017			KZK	20	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006234	409346	6815502	8/7/2017			KZK	15	B	Grey	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006235	409243	6815498	8/7/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006236	411643	6816903	8/8/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006237	411543	6816898	8/8/2017			KZK	20	B	Brown	30	10	60			Alpine	Moist Below	Jake Lucyshyn
D00006238	411446	6816906	8/8/2017			KZK	15	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006239	411350	6816903	8/8/2017			KZK	25	B	Black	10	10	70	10		Alpine	Moist Below	Jake Lucyshyn
D00006240			8/8/2017	BLANK		KZK											Jake Lucyshyn

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006241	411247	6816902	8/8/2017			KZK	10	B	Grey	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006242	411145	6816896	8/8/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006243	411043	6816897	8/8/2017			KZK	20	B	Brown	10		50	30	10	Alpine	Moist Below	Jake Lucyshyn
D00006244	410940	6816886	8/8/2017			KZK	45	B	Grey	10	60		30		Alpine	Wet 20cm	Jake Lucyshyn
D00006245	410845	6816903	8/8/2017			KZK	20	B	Red Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006246	410745	6816898	8/8/2017			KZK	25	B	Red Brown	10		70	10	10	Alpine	Moist Below	Jake Lucyshyn
D00006247	410644	6816897	8/8/2017			KZK	20	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006248	410540	6816902	8/8/2017			KZK	25	B	Black	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006249	410444	6816899	8/8/2017			KZK	20	B	Grey	10	30	50		10	Alpine	Moist Below	Jake Lucyshyn
D00006250	410344	6816900	8/8/2017			KZK	20	B	Black	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006251	411151	6815690	8/10/2017			KZK	10	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006252	411045	6815698	8/10/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006253	410948	6815700	8/10/2017			KZK	10	B	Black	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006254	410852	6815701	8/10/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006255	410745	6815702	8/10/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006256	410647	6815706	8/10/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006257	410544	6815700	8/10/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006258	410448	6815697	8/10/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006259	410347	6815698	8/10/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006260			8/10/2017	BLANK		KZK											Jake Lucyshyn
D00006261	410247	6815700	8/10/2017			KZK	15	B	Grey	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006262	410150	6815703	8/10/2017			KZK	10	B	Grey	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006263	410046	6815698	8/10/2017			KZK	15	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006264	409946	6815703	8/10/2017			KZK	10	B	Grey	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006265	409848	6815705	8/10/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006266	409744	6815700	8/10/2017			KZK	25	B	Brown	10	60	20		10	Alpine	Moist Below	Jake Lucyshyn
D00006267	409641	6815707	8/10/2017			KZK	30	B	Brown	10			90		Alpine	Moist Below	Jake Lucyshyn
D00006268	409544	6815698	8/10/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006269	409441	6815697	8/10/2017			KZK	30	B	Grey	10	80			10	Alpine	Moist Below	Jake Lucyshyn

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D00006270	409345	6815702	8/10/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006271	409244	6815696	8/10/2017			KZK	15	B	Brown	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006272	409144	6815701	8/10/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006273	409040	6815696	8/10/2017			KZK	30	B	Grey	10	10	80			Alpine	Moist Below	Jake Lucyshyn
D00006274	408946	6815698	8/10/2017			KZK	25	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006275	408847	6815701	8/10/2017			KZK	30	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006276	408746	6815702	8/10/2017			KZK	30	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006277	408741	6815579	8/10/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006278	408743	6815480	8/10/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006279	408733	6815396	8/10/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006280	408735	6815296	8/10/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006281	408736	6815294	8/10/2017	DUP1	D00006680	KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006282	408647	6815299	8/10/2017			KZK	10	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006283	408544	6815300	8/10/2017			KZK	15	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006284	408447	6815299	8/10/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006285	408343	6815299	8/10/2017			KZK	20	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006286	408242	6815295	8/10/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006287	408144	6815301	8/10/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006288	408044	6815306	8/10/2017			KZK	15	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006289	407945	6815303	8/10/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006290	407850	6815293	8/10/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006291	407749	6815301	8/10/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006292	407649	6815302	8/10/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006293	407640	6815397	8/10/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006294	407648	6815496	8/10/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006295	407646	6815598	8/10/2017			KZK	15	B	Brown	30		50		20	Alpine	Moist Below	Jake Lucyshyn
D00006296	407651	6815692	8/10/2017			KZK	20	B	Black	40		60			Alpine	Moist Below	Jake Lucyshyn
D00006297	407639	6815796	8/10/2017			KZK	35	B	Black	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006298	407648	6815900	8/10/2017			KZK	30	B	Black	20		80			Alpine	Moist Below	Jake Lucyshyn

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D00006299	410743	6816001	8/11/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006300	410645	6815999	8/11/2017			KZK	15	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006301	409046	6814803	8/13/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006302	409147	6814702	8/13/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006303	409045	6814698	8/13/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006304	409143	6814604	8/13/2017			KZK	20	B	Red Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006305	409044	6814600	8/13/2017			KZK	20	B	Brown	20		50		30	Alpine	Moist Below	Jake Lucyshyn
D00006306	409140	6814504	8/13/2017			KZK	25	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006307	408944	6814597	8/13/2017			KZK	30	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006308	409038	6814505	8/13/2017			KZK	20	B	Brown	10		60		30	Alpine	Moist Below	Jake Lucyshyn
D00006309	408845	6814610	8/13/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006310	408937	6814504	8/13/2017			KZK	25	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006311	408749	6814599	8/13/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006312	408835	6814513	8/13/2017			KZK	20	B	Brown	40		60			Alpine	Moist Below	Jake Lucyshyn
D00006313	408650	6814603	8/13/2017			KZK	25	B	Brown	30		60		10	Alpine	Moist Below	Jake Lucyshyn
D00006314	408559	6814600	8/13/2017			KZK	30	B	Brown	50		50			Alpine	Moist Below	Jake Lucyshyn
D00006315	408443	6814596	8/13/2017			KZK	15	B	Grey	10	20	70			Alpine	Moist Below	Jake Lucyshyn
D00006316	408345	6814598	8/13/2017			KZK	40	B	Brown	20		80			Alpine	Wet 10cm	Jake Lucyshyn
D00006317	408241	6814600	8/13/2017			KZK	40	B	Brown	60		40			Alpine	Moist Below	Jake Lucyshyn
D00006318	408140	6814596	8/13/2017			KZK	20	B	Brown	10	10	70	10		Alpine	Moist Below	Jake Lucyshyn
D00006319	408146	6814500	8/13/2017			KZK	15	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006320	408148	6814395	8/13/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006321	408151	6814398	8/13/2017	DUP1	D00006320	KZK	15	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006322	408246	6814402	8/13/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006323	408342	6814399	8/13/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006324	408446	6814397	8/13/2017			KZK	30	B	Black	20		80			Alpine	Wet 10cm	Jake Lucyshyn
D00006325	408150	6814308	8/13/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006326	409944	6814292	8/14/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006327	409837	6814406	8/14/2017			KZK	25	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn

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D00006328	409753	6814499	8/14/2017			KZK	30	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006329	409648	6814587	8/14/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006330	409747	6814580	8/14/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006331	409843	6814497	8/14/2017			KZK	25	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006332	409945	6814395	8/14/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006333	410045	6814294	8/14/2017			KZK	30	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006334	410143	6814299	8/14/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006335	410040	6814399	8/14/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006336	409946	6814499	8/14/2017			KZK	25	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006337	409849	6814601	8/14/2017			KZK	30	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006338	409752	6814691	8/14/2017			KZK	15	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006339	409644	6814700	8/14/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006340	409651	6814796	8/14/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006341	409745	6814798	8/14/2017			KZK	25	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006342	409848	6814694	8/14/2017			KZK	15	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006343	409941	6814597	8/14/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006344	410044	6814503	8/14/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006345	410134	6814395	8/14/2017			KZK	30	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006346	410241	6814298	8/14/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006347	410355	6814299	8/14/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006348	410246	6814403	8/14/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006349	410147	6814498	8/14/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006350	410047	6814596	8/14/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006351	412038	6813400	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006352	412033	6813509	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006353	412049	6813603	8/7/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006354	412051	6813697	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006355	412048	6813794	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006356	412053	6813896	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006357	412043	6813999	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006358	412047	6814190	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006359	412047	6814300	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006360	412046	6814303	8/7/2017	DUP1	D00006359	KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006361	412038	6814394	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006362	412029	6814491	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006363	412034	6814589	8/7/2017			KZK	25	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006364	412049	6814710	8/7/2017			KZK	15	B	Brown	40		60			Alpine		Mackenzie Hett
D00006365	412029	6814806	8/7/2017			KZK	10	Ah	Brown	20		70		10	Alpine		Mackenzie Hett
D00006366	412034	6814893	8/7/2017			KZK	10	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006367	412035	6815017	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006368	412042	6815108	8/7/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006369	412041	6815212	8/7/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006370	412037	6815313	8/7/2017			KZK	25	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006371	411931	6815304	8/7/2017			KZK	15	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006372	411832	6815301	8/7/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006373	411725	6815301	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006374	411640	6815307	8/7/2017			KZK	20	B	Brown	40		60			Alpine		Mackenzie Hett
D00006375	411529	6815296	8/7/2017			KZK	25	B	Grey	20		70		10	Alpine		Mackenzie Hett
D00006376	411431	6815289	8/7/2017			KZK	20	B	Grey	40		50		10	Alpine		Mackenzie Hett
D00006377	411329	6815295	8/7/2017			KZK	10	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006378	411231	6815289	8/7/2017			KZK	10	B	Grey	60		40			Alpine		Mackenzie Hett
D00006379	411120	6815286	8/7/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006380			8/7/2017	BLANK		KZK											Mackenzie Hett
D00006381	411026	6815315	8/7/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006382	410932	6815290	8/7/2017			KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006383	410851	6815296	8/7/2017			KZK	10	B	Black						Alpine		Mackenzie Hett
D00006384	410751	6815294	8/7/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006385	410660	6815306	8/7/2017			KZK	20	B	Red Brown	10		80		10	Alpine		Mackenzie Hett

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006386	411634	6817103	8/8/2017	DUP1	D00007936	KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006387	411546	6817093	8/8/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006388	411442	6817088	8/8/2017			KZK	20	B	Grey	10		80		10	Alpine	Ash present	Mackenzie Hett
D00006389	411329	6817099	8/8/2017			KZK	20	B	Grey	10		80		10	Alpine	Ash present	Mackenzie Hett
D00006390	411221	6817087	8/8/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006391	411145	6817093	8/8/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006392	411030	6817093	8/8/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006393	410910	6817085	8/8/2017			KZK	15	Ah	Black	60		40			Alpine		Mackenzie Hett
D00006394	410841	6817082	8/8/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006395	410734	6817100	8/8/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006396	410635	6817089	8/8/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006397	411739	6814598	8/9/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006398	411751	6814696	8/9/2017			KZK	25	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006399	411748	6814801	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006400	411750	6814800	8/9/2017	DUP1	D00006399	KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006401	411747	6814894	8/9/2017			KZK	20	B	Brown	30		60		10	Alpine		Mackenzie Hett
D00006402	411752	6814996	8/9/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006403	411745	6815092	8/9/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006404	411743	6815195	8/9/2017			KZK	15	B	Grey	40		20		40	Alpine		Mackenzie Hett
D00006405	411352	6815206	8/9/2017			KZK	15	B	Brown	40		20		40	Alpine		Mackenzie Hett
D00006406	411343	6815001	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006407	411342	6814907	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006408	411338	6814808	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006409	411345	6814709	8/9/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006410	411340	6814604	8/9/2017			KZK	20	B	Brown	20	20	40		20	Alpine		Mackenzie Hett
D00006411	411343	6814510	8/9/2017			KZK	15	B	Brown	10		60	20	10	Alpine		Mackenzie Hett
D00006412	411343	6814402	8/9/2017			KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006413	411343	6814321	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006414	411338	6814208	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett

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D00006415	411340	6814101	8/9/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
D00006416	411341	6813998	8/9/2017			KZK	20	B	Brown	10		60		30	Alpine		Mackenzie Hett
D00006417	411339	6813903	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006418	411343	6813802	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006419	411351	6813703	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006420	411345	6815109	8/9/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006421	411332	6813604	8/9/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006422	411344	6813511	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006424	411233	6815600	8/10/2017			KZK	10	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006425	411132	6815603	8/10/2017			KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006426	411027	6815596	8/10/2017			KZK	10	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006427	410927	6815616	8/10/2017			KZK	10	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006428	410829	6815621	8/10/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006429	410733	6815628	8/10/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006430	410630	6815631	8/10/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006431	410529	6815630	8/10/2017			KZK	20	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006432	410429	6815633	8/10/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006433	410331	6815642	8/10/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006434	410236	6815639	8/10/2017			KZK	15	B	Brown	30		60		10	Alpine		Mackenzie Hett
D00006435	410145	6815649	8/10/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006436	410051	6815640	8/10/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006437	409953	6815654	8/10/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006438	409849	6815654	8/10/2017			KZK	10	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006439	409745	6815654	8/10/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006440	409747	6815654	8/10/2017	DUP1	D00006439	KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006441	409649	6815651	8/10/2017			KZK	20	B	Brown	40		60			Alpine		Mackenzie Hett
D00006442	409547	6815647	8/10/2017			KZK	20	B	Black	30		60		10	Alpine		Mackenzie Hett
D00006443	409434	6815653	8/10/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
D00006444	409330	6815648	8/10/2017			KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006445	409229	6815622	8/10/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006446	409147	6815594	8/10/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006447	409240	6816004	8/10/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006448	409130	6816000	8/10/2017			KZK	15	B	Brown	40		40		20	Alpine		Mackenzie Hett
D00006449	409027	6816000	8/10/2017			KZK	15	B	Black	10		80		10	Alpine		Mackenzie Hett
D00006450	408924	6815999	8/10/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006451	410526	6817104	8/8/2017			KZK	20	B	Grey	20		80			Alpine		Mackenzie Hett
D00006452	410428	6817095	8/8/2017			KZK	20	B	Grey	40		60			Alpine		Mackenzie Hett
D00006453	410341	6817087	8/8/2017			KZK	20	B	Grey	10		70		20	Alpine		Mackenzie Hett
D00006454	410249	6817091	8/8/2017			KZK	20	B	Grey	20		70		10	Alpine		Mackenzie Hett
D00006455	410164	6817088	8/8/2017			KZK	20	B	Grey	20		70		10	Alpine		Mackenzie Hett
D00006456	409650	6816997	8/8/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006457	409552	6817004	8/8/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006458	409051	6816818	8/8/2017			KZK	20	B	Brown	10		80		10	Alpine	Ash present	Mackenzie Hett
D00006459	408950	6816825	8/8/2017			KZK	10	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006460			8/8/2017	BLANK		KZK											Mackenzie Hett
D00006461	409136	6816816	8/8/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006462	409242	6816790	8/8/2017			KZK	15	B	Brown	10			80	10	Alpine		Mackenzie Hett
D00006463	409338	6816787	8/8/2017			KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006464	409449	6816791	8/8/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006465	409553	6816794	8/8/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006466	409637	6816787	8/8/2017			KZK	20	B	Grey	40		60			Alpine		Mackenzie Hett
D00006467	409745	6816802	8/8/2017			KZK	15	B	Grey	30		60		10	Alpine		Mackenzie Hett
D00006468	409844	6816794	8/8/2017			KZK	25	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006469	409923	6816804	8/8/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006470	410045	6816795	8/8/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006471	411744	6813501	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006472	411742	6813601	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006473	411738	6813693	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett

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D00006474	411746	6813790	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006475	411741	6813895	8/9/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006476	411751	6813999	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006477	411746	6814101	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006478	411748	6814199	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006479	411747	6814301	8/9/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006480	411746	6814298	8/9/2017	DUP1	D00006479	KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006481	411735	6813405	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006482	411734	6814400	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006483	411746	6814501	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006484	408719	6816003	8/10/2017			KZK	15	B	Grey	10		40	40	10	Alpine		Mackenzie Hett
D00006485	408617	6816001	8/10/2017			KZK	15	B	Grey	20		80			Alpine		Mackenzie Hett
D00006486	408517	6815993	8/10/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006487	408426	6815996	8/10/2017			KZK	10	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006488	408327	6815992	8/10/2017			KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006489	408223	6816002	8/10/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006490	408120	6815995	8/10/2017			KZK	15	B	Brown	40		40		20	Alpine		Mackenzie Hett
D00006491	408031	6815995	8/10/2017			KZK	15	B	Brown	50		50			Alpine		Mackenzie Hett
D00006492	407946	6816007	8/10/2017			KZK	20	B	Black	50		50			Alpine		Mackenzie Hett
D00006493	408345	6815597	8/11/2017			KZK	25	B	Black	10		70		20	Alpine		Mackenzie Hett
D00006494	408244	6815597	8/11/2017			KZK	20	B	Grey	10		70		20	Alpine		Mackenzie Hett
D00006495	408444	6815602	8/11/2017			KZK	25	B	Black	10		70		20	Alpine		Mackenzie Hett
D00006496	408146	6815601	8/11/2017			KZK	20	B	Brown	10		70		20	Alpine		Mackenzie Hett
D00006497	408050	6815600	8/11/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006498	407950	6815595	8/11/2017			KZK	15	B	Grey	10		70		20	Alpine		Mackenzie Hett
D00006499	407939	6815692	8/11/2017			KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006500	407939	6815695	8/11/2017	DUP1	D00006499	KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006501	412344	6814404	8/7/2017			KZK	5	B	Brown	10		40	20	30	Alpine	Moist Below	Matt Brickenden
D00006502	412343	6814301	8/7/2017			KZK	5	B	Brown	10		50	10	30	Alpine	Moist Below	Matt Brickenden

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D00006503	412342	6814506	8/7/2017			KZK	5	B	Brown	25		65		10	Alpine	Moist Below	Matt Brickenden
D00006504	412346	6814598	8/7/2017			KZK	10	B	Brown	30		45	15	10	Alpine	Moist Below	Matt Brickenden
D00006505	412347	6814701	8/7/2017			KZK	10	B	Brown	5		90		5	Alpine	Moist Below	Matt Brickenden
D00006506	412343	6814803	8/7/2017			KZK	10	B	Brown			70	20	10	Alpine	Moist Below	Matt Brickenden
D00006507	412345	6814900	8/7/2017			KZK	10	B	Brown			90		10	Alpine	Moist Below	Matt Brickenden
D00006508	412344	6815000	8/7/2017			KZK	10	B	Brown	10		55	10	25	Alpine	Moist Below	Matt Brickenden
D00006509	412343	6815101	8/7/2017			KZK	10	B	Brown			70	15	15	Alpine	Moist Below	Matt Brickenden
D00006510	412346	6815195	8/7/2017			KZK	10	B	Brown			70	15	15	Alpine	Moist Below	Matt Brickenden
D00006511	412346	6815299	8/7/2017			KZK	10	B	Brown	15		55	15	15	Alpine	Moist Below	Matt Brickenden
D00006512	412345	6815400	8/7/2017			KZK	10	B	Brown	25		65		10	Alpine	Moist Below	Matt Brickenden
D00006513	412344	6815499	8/7/2017			KZK	10	B	Brown	10		40	15	35	Alpine	Moist Below	Matt Brickenden
D00006514	412345	6815604	8/7/2017			KZK	10	B	Brown	25		50		25	Alpine	Moist Below	Matt Brickenden
D00006515	412345	6815701	8/7/2017			KZK	10	B	Brown	10		55	15	20	Alpine	Moist Below	Matt Brickenden
D00006516	412343	6815801	8/7/2017			KZK	10	B	Brown	20		45	15	20	Alpine	Moist Below	Matt Brickenden
D00006517	412245	6815805	8/7/2017			KZK	10	B	Brown	40		25	10	25	Alpine	Moist Below	Matt Brickenden
D00006518	412244	6815901	8/7/2017			KZK	10	B	Brown	20		40	20	20	Alpine	Moist Below	Matt Brickenden
D00006519	412245	6816002	8/7/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006520	412246	6816003	8/7/2017	DUP1	D00006519	KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006521	412144	6816001	8/7/2017			KZK	10	B	Brown	15		50	15	20	Alpine	Moist Below	Matt Brickenden
D00006522	412145	6815903	8/7/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006523	412145	6815803	8/7/2017			KZK	10	B	Brown			50	20	30	Alpine	Moist Below	Matt Brickenden
D00006524	412144	6815702	8/7/2017			KZK	10	B	Brown	5		60	15	20	Alpine	Moist Below	Matt Brickenden
D00006525	412244	6815701	8/7/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006526	412244	6815600	8/7/2017			KZK	10	B	Brown	5		60	20	15	Alpine	Moist Below	Matt Brickenden
D00006527	412144	6815602	8/7/2017			KZK	10	B	Brown	15		50	10	25	Alpine	Moist Below	Matt Brickenden
D00006528	412045	6815604	8/7/2017			KZK	10	B	Brown	10		50	10	30	Alpine	Moist Below	Matt Brickenden
D00006529	411944	6815602	8/7/2017			KZK	10	B	Brown	10		50	10	30	Alpine	Moist Below	Matt Brickenden
D00006530	411946	6815702	8/7/2017			KZK	10	B	Brown	20		40	20	20	Alpine	Moist Below	Matt Brickenden
D00006531	412044	6815701	8/7/2017			KZK	10	B	Brown	10		45	25	20	Alpine	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006532	412045	6815805	8/7/2017			KZK	10	B	Brown	10		65	10	15	Alpine	Moist Below	Matt Brickenden
D00006533	411942	6815795	8/7/2017			KZK	10	B	Brown	10		45	20	25	Alpine	Moist Below	Matt Brickenden
D00006534	412049	6815902	8/7/2017			KZK	10	B	Brown	10		50	20	20	Alpine	Moist Below	Matt Brickenden
D00006535	412045	6815997	8/7/2017			KZK	10	B	Brown	20		40	20	20	Alpine	Moist Below	Matt Brickenden
D00006536	411936	6815988	8/7/2017			KZK	10	B	Brown	10		35	35	20	Alpine	Moist Below	Matt Brickenden
D00006537	411842	6816003	8/7/2017			KZK	10	B	Brown	30		50	10	10	Alpine	Moist Below	Matt Brickenden
D00006538	411847	6815907	8/7/2017			KZK	10	B	Brown	40		30	10	20	Alpine	Moist Below	Matt Brickenden
D00006539	411742	6815804	8/7/2017			KZK	10	B	Brown	15	10	55	10	10	Alpine	Moist Below	Matt Brickenden
D00006540			8/7/2017	BLANK		KZK											Matt Brickenden
D00006541	411745	6815702	8/7/2017			KZK	10	B	Brown	10		25	25	40	Alpine	Moist Below	Matt Brickenden
D00006542	411642	6815602	8/7/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006543	411546	6815603	8/7/2017			KZK	5	B	Brown	15		55	20	10	Alpine	Moist Below	Matt Brickenden
D00006544	411443	6815601	8/7/2017			KZK	10	B	Brown	15		50	10	25	Alpine	Moist Below	Matt Brickenden
D00006545	411342	6815601	8/7/2017			KZK	10	B	Brown	10		50	15	25	Alpine	Moist Below	Matt Brickenden
D00006546	411341	6815697	8/7/2017			KZK	10	B	Brown	15		40	20	25	Alpine	Moist Below	Matt Brickenden
D00006547	411449	6815698	8/7/2017			KZK	10	B	Brown	25		25	25	25	Alpine	Moist Below	Matt Brickenden
D00006548	411547	6815699	8/7/2017			KZK	10	B	Brown	15		75	10		Alpine	Moist Below	Matt Brickenden
D00006549	411646	6815705	8/7/2017			KZK	5	B	Brown	15		65	10	10	Alpine	Moist Below	Matt Brickenden
D00006550	411647	6815797	8/7/2017			KZK	5	B	Brown	10		70	10	10	Alpine	Moist Below	Matt Brickenden
D00006551	411747	6815903	8/7/2017			KZK	5	B	Brown	5		55	20	20	Alpine	Moist Below	Matt Brickenden
D00006552	411644	6815900	8/7/2017			KZK	5	B	Brown	10	10	55	15	10	Alpine	Moist Below	Matt Brickenden
D00006553	411746	6816003	8/7/2017			KZK	25	B	Brown	20	10	55	10	5	Alpine	Moist Below	Matt Brickenden
D00006554	411644	6816001	8/8/2017			KZK	15	B	Brown	10		60	20	10	Alpine	Moist Below	Matt Brickenden
D00006555	411544	6815998	8/8/2017			KZK	15	B	Brown		10	55	20	15	Alpine	Moist Below	Matt Brickenden
D00006556	411543	6815902	8/8/2017			KZK	15	B	Brown	15	10	65	10		Alpine	Moist Below	Matt Brickenden
D00006557	411544	6815802	8/8/2017			KZK	15	B	Brown	10	15	65	10		Alpine	Moist Below	Matt Brickenden
D00006558	411442	6815798	8/8/2017			KZK	15	B	Brown	10		90			Alpine	Moist Below	Matt Brickenden
D00006559	411343	6815804	8/8/2017			KZK	10	B	Brown	10		65	15	10	Alpine	Moist Below	Matt Brickenden
D00006560	411343	6815805	8/8/2017	DUP1	D00006559	KZK	10	B	Brown	15		60	15	10	Alpine	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006561	411243	6815802	8/8/2017			KZK	10	B	Brown	10		30	25	35	Alpine	Moist Below	Matt Brickenden
D00006562	411246	6815902	8/8/2017			KZK	10	B	Brown	10		55	15	20	Alpine	Moist Below	Matt Brickenden
D00006563	411344	6815900	8/8/2017			KZK	10	B	Brown	20		60	10	10	Alpine	Moist Below	Matt Brickenden
D00006564	411445	6815899	8/8/2017			KZK	10	B	Brown	10	10	70	10		Alpine	Moist Below	Matt Brickenden
D00006565	411443	6816001	8/8/2017			KZK	10	B	Brown	10	10	55	25		Alpine	Moist Below	Matt Brickenden
D00006566	411344	6816001	8/8/2017			KZK	10	B	Brown	10		55	25	10	Alpine	Moist Below	Matt Brickenden
D00006567	411245	6815996	8/8/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006568	411159	6815999	8/8/2017			KZK	10	B	Brown	15		40	25	20	Alpine	Moist Below	Matt Brickenden
D00006569	411146	6816199	8/8/2017			KZK	15	B	Brown	10	10	70		10	Alpine	Moist Below	Matt Brickenden
D00006570	411147	6816400	8/8/2017			KZK	15	B	Brown	5		50	30	15	Alpine	Moist Below	Matt Brickenden
D00006571	411143	6816500	8/8/2017			KZK	15	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006572	411644	6816500	8/8/2017			KZK	15	B	Brown	10		65	10	15	Alpine	Moist Below	Matt Brickenden
D00006573	411545	6816500	8/8/2017			KZK	15	B	Brown	15		45	15	25	Alpine	Moist Below	Matt Brickenden
D00006574	411442	6816500	8/8/2017			KZK	15	B	Brown	15		55	15	15	Alpine	Moist Below	Matt Brickenden
D00006575	411346	6816502	8/8/2017			KZK	15	B	Brown	30		40	20	10	Brush	Moist Below	Matt Brickenden
D00006576	411240	6816499	8/8/2017			KZK	15	B	Brown	5		50	20	25	Alpine	Moist Below	Matt Brickenden
D00006577	411046	6816500	8/8/2017			KZK	10	B	Brown	15		50	20	15	Alpine	Moist Below	Matt Brickenden
D00006578	410947	6816497	8/8/2017			KZK	10	B	Brown	10		60	15	15	Alpine	Moist Below	Matt Brickenden
D00006579	410840	6816497	8/8/2017			KZK	15	B	Brown	15		85			Alpine	Moist Below	Matt Brickenden
D00006580			8/8/2017	BLANK		KZK											Matt Brickenden
D00006581	410746	6816502	8/8/2017			KZK	15	B	Brown	30		45	10	15	Alpine	Moist Below	Matt Brickenden
D00006582	410641	6816498	8/8/2017			KZK	5	B	Brown	15		40	15	30	Alpine	Moist Below	Matt Brickenden
D00006583	410544	6816499	8/8/2017			KZK	10	B	Brown	25		35	20	20	Alpine	Moist Below	Matt Brickenden
D00006584	410441	6816501	8/8/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Matt Brickenden
D00006585	410345	6816500	8/8/2017			KZK	10	B	Brown	15		50	10	25	Alpine	Moist Below	Matt Brickenden
D00006586	410243	6816499	8/8/2017			KZK	10	B	Brown	25		55	10	10	Alpine	Moist Below	Matt Brickenden
D00006587	410144	6816501	8/8/2017			KZK	10	B	Brown	15		65	10	10	Alpine	Moist Below	Matt Brickenden
D00006588	410044	6816501	8/8/2017			KZK	10	B	Brown	20		45	10	25	Alpine	Moist Below	Matt Brickenden
D00006589	409943	6816500	8/8/2017			KZK	10	B	Brown	15		50	10	25	Alpine	Moist Below	Matt Brickenden

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D00006590	409841	6816502	8/8/2017			KZK	10	B	Brown	20		40	10	30	Alpine	Moist Below	Matt Brickenden
D00006591	409745	6816499	8/8/2017			KZK	10	B	Brown	25		50	10	15	Alpine	Moist Below	Matt Brickenden
D00006592	409644	6816498	8/8/2017			KZK	10	B	Brown	15		45	15	25	Alpine	Moist Below	Matt Brickenden
D00006593	409544	6816501	8/8/2017			KZK	10	B	Grey	25		40	15	20	Alpine	Moist Below	Matt Brickenden
D00006594	409442	6816499	8/8/2017			KZK	10	B	Brown	15		50	10	25	Brush	Moist Below	Matt Brickenden
D00006595	409344	6816501	8/8/2017			KZK	10	B	Brown	35		35		30	Brush	Moist Below	Matt Brickenden
D00006596	409240	6816493	8/8/2017			KZK	10	B	Brown	20		30	10	40	Brush	Moist Below	Matt Brickenden
D00006597	409142	6816500	8/8/2017			KZK	10	B	Brown	10		60	15	15	Brush	Moist Below	Matt Brickenden
D00006598	409045	6816498	8/8/2017			KZK	5	B	Brown	10			80	10	Brush	Moist Below	Matt Brickenden
D00006599	408940	6816505	8/8/2017			KZK	10	B	Brown	10		40	30	20	Brush	Moist Below	Matt Brickenden
D00006600	408939	6816504	8/8/2017	DUP1	D00006599	KZK	10	B	Brown	10		40	30	20	Brush	Moist Below	Matt Brickenden
D00006601	408845	6816496	8/8/2017			KZK	10	B	Brown	10		40	25	25	Brush	Moist Below	Matt Brickenden
D00006602	411942	6813402	8/9/2017			KZK	10	B	Brown	10		40	20	30	Alpine	Moist Below	Matt Brickenden
D00006603	411940	6813494	8/9/2017			KZK	10	B	Brown	15		25	30	30	Alpine	Moist Below	Matt Brickenden
D00006604	411944	6813601	8/9/2017			KZK	10	B	Brown	10		40	25	25	Alpine	Moist Below	Matt Brickenden
D00006605	411948	6813703	8/9/2017			KZK	10	B	Brown	15		50	5	30	Alpine	Moist Below	Matt Brickenden
D00006606	411947	6813802	8/9/2017			KZK	10	B	Brown	25		50	10	15	Alpine	Moist Below	Matt Brickenden
D00006607	411947	6813903	8/9/2017			KZK	10	B	Brown	10		75		15	Alpine	Moist Below	Matt Brickenden
D00006608	411944	6813999	8/9/2017			KZK	10	B	Brown	15		75		10	Alpine	Moist Below	Matt Brickenden
D00006609	411946	6814102	8/9/2017			KZK	10	B	Brown	10		40	25	25	Alpine	Moist Below	Matt Brickenden
D00006610	411944	6814199	8/9/2017			KZK	10	B	Brown	20		50	20	10	Alpine	Moist Below	Matt Brickenden
D00006611	411945	6814300	8/9/2017			KZK	10	B	Brown	10		65	10	15	Alpine	Moist Below	Matt Brickenden
D00006612	411942	6814399	8/9/2017			KZK	10	B	Brown	20			50	30	Alpine	Moist Below	Matt Brickenden
D00006613	411945	6814500	8/9/2017			KZK	10	B	Brown	20		55	20	5	Alpine	Moist Below	Matt Brickenden
D00006614	411942	6814599	8/9/2017			KZK	10	B	Brown	30		40	30		Alpine	Moist Below	Matt Brickenden
D00006615	411944	6814706	8/9/2017			KZK	10	B	Brown	30		40	30		Alpine	Moist Below	Matt Brickenden
D00006616	411947	6814800	8/9/2017			KZK	10	B	Brown			85		15	Alpine	Moist Below	Matt Brickenden
D00006617	411945	6814898	8/9/2017			KZK	10	B	Brown	15		55	15	15	Alpine	Moist Below	Matt Brickenden
D00006618	411944	6815000	8/9/2017			KZK	10	B	Brown			75		25	Alpine	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006619	411947	6815101	8/9/2017			KZK	10	B	Brown	10	10	60	10	10	Alpine	Moist Below	Matt Brickenden
D00006620			8/9/2017	BLANK		KZK											Matt Brickenden
D00006621	411643	6813301	8/9/2017			KZK	10	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006622	411645	6813399	8/9/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006623	411645	6813497	8/9/2017			KZK	25	B	Black	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006624	411643	6813599	8/9/2017			KZK	20	B	Brown	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006625	411645	6813702	8/9/2017			KZK	25	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006626	411645	6813802	8/9/2017			KZK	20	B	Black	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006627	411645	6813904	8/9/2017			KZK	15	B	Black	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006628	411642	6814000	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006629	411646	6814102	8/9/2017			KZK	25	B	Black	30		60		10	Alpine	Wet 20cm	Jake Lucyshyn
D00006630	411644	6814199	8/9/2017			KZK	40	B	Black	50		50			Alpine	Moist Below	Jake Lucyshyn
D00006631	411642	6814302	8/9/2017			KZK	20	B	Black	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006632	411644	6814402	8/9/2017			KZK	20	B	Brown	10	10	60	10	10	Alpine	Moist Below	Jake Lucyshyn
D00006633	411644	6814501	8/9/2017			KZK	15	B	Brown	10		60	20	10	Alpine	Moist Below	Jake Lucyshyn
D00006634	411645	6814604	8/9/2017			KZK	20	B	Brown	10		80	10		Alpine	Moist Below	Jake Lucyshyn
D00006635	411648	6814705	8/9/2017			KZK	15	B	Brown	10			80	10	Alpine	Moist Below	Jake Lucyshyn
D00006636	411645	6814796	8/9/2017			KZK	25	B	Brown	10		60	20	10	Alpine	Moist Below	Jake Lucyshyn
D00006637	411645	6814900	8/9/2017			KZK	25	B	Grey	10	20	70			Alpine	Moist Below	Jake Lucyshyn
D00006638	411643	6815003	8/9/2017			KZK	30	B	Grey	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006639	411647	6815100	8/9/2017			KZK	10	B	Brown	10			80	10	Alpine	Moist Below	Jake Lucyshyn
D00006640			8/9/2017	BLANK		KZK											Jake Lucyshyn
D00006641	411247	6815090	8/9/2017			KZK	10	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
D00006642	411245	6815004	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006643	411241	6814902	8/9/2017			KZK	15	B	Brown	10		70	10	10	Alpine	Moist Below	Jake Lucyshyn
D00006644	411242	6814805	8/9/2017			KZK	30	B	Grey	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006645	411247	6814702	8/9/2017			KZK	10	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006646	411247	6814601	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006647	411248	6814495	8/9/2017			KZK	25	B	Grey	10		90			Alpine	Moist Below	Jake Lucyshyn

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006648	411246	6814396	8/9/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006649	411244	6814302	8/9/2017			KZK	25	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
D00006650	411247	6814199	8/9/2017			KZK	20	B	Brown	30	60	10			Alpine	Moist Below	Jake Lucyshyn
D00006651	410242	6816900	8/8/2017			KZK	40	B	Grey	20	60	20			Alpine	Moist Below	Jake Lucyshyn
D00006652	410143	6816897	8/8/2017			KZK	25	B	Grey	20	10	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006653	410046	6816892	8/8/2017			KZK	20	B	Grey	20	30	50			Alpine	Moist Below	Jake Lucyshyn
D00006654	409944	6816894	8/8/2017			KZK	15	B	Grey	20	10	70			Alpine	Moist Below	Jake Lucyshyn
D00006655	409847	6816900	8/8/2017			KZK	20	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006656	409747	6816900	8/8/2017			KZK	40	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
D00006657	409640	6816899	8/8/2017			KZK	35	B	Grey	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006658	409544	6816893	8/8/2017			KZK	25	B	Brown	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006659	409448	6816899	8/8/2017			KZK	30	B	Grey	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006660	409344	6816899	8/8/2017			KZK	25	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006661	409341	6816899	8/8/2017	DUP1	D00006660	KZK	25	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
D00006662	409242	6816900	8/8/2017			KZK	15	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006663	408352	6816599	8/8/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006664	408442	6816603	8/8/2017			KZK	20	B	Brown	10	10	70		10	Alpine	Moist Below	Jake Lucyshyn
D00006665	408547	6816597	8/8/2017			KZK	30	B	Brown	10	10	80			Alpine	Moist Below	Jake Lucyshyn
D00006666	408642	6816606	8/8/2017			KZK	20	B	Grey	10	40	40		10	Alpine	Moist Below	Jake Lucyshyn
D00006667	408747	6816601	8/8/2017			KZK	25	B	Grey	10	60	20		10	Alpine	Moist Below	Jake Lucyshyn
D00006668	408844	6816601	8/8/2017			KZK	20	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006669	408943	6816598	8/8/2017			KZK	15	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006670	409043	6816602	8/8/2017			KZK	25	B	Brown	10		60	10	20	Alpine	Wet 5cm	Jake Lucyshyn
D00006671	409146	6816599	8/8/2017			KZK	10	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006672	409243	6816598	8/8/2017			KZK	35	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006673	409341	6816599	8/8/2017			KZK	20	B	Grey	10	30	60			Alpine	Moist Below	Jake Lucyshyn
D00006674	409446	6816608	8/8/2017			KZK	20	B	Brown	10	20	70			Alpine	Moist Below	Jake Lucyshyn
D00006675	409543	6816605	8/8/2017			KZK	30	B	Black	30		70			Alpine	Moist Below	Jake Lucyshyn
D00006676	411249	6814097	8/9/2017			KZK	10	B	Brown	10		50		40	Alpine	Moist Below	Jake Lucyshyn

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006677	411245	6814003	8/9/2017			KZK	20	B	Grey	10	40	50			Alpine	Moist Below	Jake Lucyshyn
D00006678	411246	6813901	8/9/2017			KZK	15	B	Grey	10	60	20		10	Alpine	Moist Below	Jake Lucyshyn
D00006679	411245	6813797	8/9/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006680	411243	6813705	8/9/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Jake Lucyshyn
D00006681	411239	6813702	8/9/2017	DUP1	D00006680	KZK	15	B	Brown	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006682	411243	6813605	8/9/2017			KZK	15	B	Brown	10	20	60		10	Alpine	Moist Below	Jake Lucyshyn
D00006683	410950	6813499	8/9/2017			KZK	30	B	Brown	20	20	50		10	Alpine	Moist Below	Jake Lucyshyn
D00006684	410943	6813597	8/9/2017			KZK	15	B	Brown	30		60		10	Alpine	Moist Below	Jake Lucyshyn
D00006685	410945	6813698	8/9/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Jake Lucyshyn
D00006686	410949	6813802	8/9/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006687	410846	6813800	8/9/2017			KZK	25	B	Grey	20	20	60			Alpine	Moist Below	Jake Lucyshyn
D00006688	410846	6813903	8/9/2017			KZK	30	B	Grey	20	60			20	Alpine	Moist Below	Jake Lucyshyn
D00006689	410942	6813902	8/9/2017			KZK	15	B	Brown	10		50	40		Alpine	Moist Below	Jake Lucyshyn
D00006690	410845	6814006	8/9/2017			KZK	15	B	Brown	10	70		20		Alpine	Moist Below	Jake Lucyshyn
D00006691	410948	6814000	8/9/2017			KZK	10	B	Brown	10		70	10	10	Alpine	Moist Below	Jake Lucyshyn
D00006692	410844	6814102	8/9/2017			KZK	20	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006693	410948	6814099	8/9/2017			KZK	15	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006694	410842	6814197	8/9/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Jake Lucyshyn
D00006695	410946	6814203	8/9/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006701	411945	6815200	8/9/2017			KZK	10	B	Brown	10		60	15	15	Alpine	Moist Below	Matt Brickenden
D00006702	411544	6815200	8/9/2017			KZK	10	B	Brown	10		50	30	10	Alpine	Moist Below	Matt Brickenden
D00006703	411544	6815099	8/9/2017			KZK	10	B	Brown	15		45	25	15	Alpine	Moist Below	Matt Brickenden
D00006704	411545	6815003	8/9/2017			KZK	10	B	Brown	10		65	10	15	Alpine	Moist Below	Matt Brickenden
D00006705	411548	6814900	8/9/2017			KZK	10	B	Brown	10		40	15	35	Alpine	Moist Below	Matt Brickenden
D00006706	411546	6814803	8/9/2017			KZK	10	B	Brown	15		45	20	20	Alpine	Moist Below	Matt Brickenden
D00006707	411546	6814698	8/9/2017			KZK	10	B	Brown	5		40	45	10	Alpine	Moist Below	Matt Brickenden
D00006708	411544	6814601	8/9/2017			KZK	10	B	Brown	15		55	30		Alpine	Moist Below	Matt Brickenden
D00006709	411544	6814502	8/9/2017			KZK	10	B	Brown	10		50	20	20	Alpine	Moist Below	Matt Brickenden
D00006710	411545	6814399	8/9/2017			KZK	10	B	Brown	10		40	35	15	Alpine	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006711	411547	6814299	8/9/2017			KZK	10	B	Brown	10		40	35	15	Alpine	Moist Below	Matt Brickenden
D00006712	411545	6814201	8/9/2017			KZK	10	B	Brown	25		30	20	25	Alpine	Moist Below	Matt Brickenden
D00006713	411544	6814103	8/9/2017			KZK	5	B	Brown	30		30	30	10	Alpine	Moist Below	Matt Brickenden
D00006714	411544	6814002	8/9/2017			KZK	15	B	Brown	50		10	20	20	Alpine	Moist Below	Matt Brickenden
D00006715	411543	6813902	8/9/2017			KZK	10	B	Brown	10		50	30	10	Alpine	Moist Below	Matt Brickenden
D00006716	411543	6813801	8/9/2017			KZK	10	B	Brown	20			40	40	Alpine	Moist Below	Matt Brickenden
D00006717	411544	6813697	8/9/2017			KZK	10	B	Brown	15		40	25	20	Alpine	Moist Below	Matt Brickenden
D00006718	411548	6813605	8/9/2017			KZK	10	B	Brown	15		35	30	20	Alpine	Moist Below	Matt Brickenden
D00006719	411544	6813503	8/9/2017			KZK	15	B	Brown	35		15	35	15	Alpine	Moist Below	Matt Brickenden
D00006720	411540	6813400	8/9/2017			KZK	5	B	Brown	5		75	10	10	Alpine	Moist Below	Matt Brickenden
D00006721	411542	6813408	8/9/2017	DUP1	D00006720	KZK	5	B	Brown	5		75	10	10	Alpine	Moist Below	Matt Brickenden
D00006722	411544	6813302	8/9/2017			KZK	5	B	Brown	25		50	10	15	Alpine	Moist Below	Matt Brickenden
D00006723	411044	6813602	8/9/2017			KZK	10	B	Brown	10		55	25	10	Alpine	Moist Below	Matt Brickenden
D00006724	411045	6813700	8/9/2017			KZK	10	B	Brown	10		30	35	25	Alpine	Moist Below	Matt Brickenden
D00006725	411046	6813803	8/9/2017			KZK	5	B	Brown	30		60	10		Alpine	Moist Below	Matt Brickenden
D00006726	411045	6813901	8/9/2017			KZK	10	B	Brown	10		40	20	30	Alpine	Moist Below	Matt Brickenden
D00006727	411043	6814000	8/9/2017			KZK	10	B	Brown	10		40	40	10	Alpine	Moist Below	Matt Brickenden
D00006728	411044	6814101	8/9/2017			KZK	5	B	Brown	10		60	15	15	Alpine	Moist Below	Matt Brickenden
D00006729	411044	6814201	8/9/2017			KZK	10	B	Brown			50	40	10	Alpine	Moist Below	Matt Brickenden
D00006730	411045	6814299	8/9/2017			KZK	10	B	Brown	10		40	40	10	Alpine	Moist Below	Matt Brickenden
D00006731	411045	6814399	8/9/2017			KZK	10	B	Brown	10		40	40	10	Alpine	Moist Below	Matt Brickenden
D00006732	411046	6814504	8/9/2017			KZK	10	B	Brown	10		40	30	20	Alpine	Moist Below	Matt Brickenden
D00006733	411043	6814602	8/9/2017			KZK	10	B	Brown	10		50	30	10	Alpine	Moist Below	Matt Brickenden
D00006734	411043	6814702	8/9/2017			KZK	10	B	Brown			55	30	15	Alpine	Moist Below	Matt Brickenden
D00006735	411042	6814800	8/9/2017			KZK	10	B	Brown			60	30	10	Alpine	Moist Below	Matt Brickenden
D00006736	410834	6815899	8/10/2017			KZK	10	B	Brown	5		55	30	10	Alpine	Moist Below	Matt Brickenden
D00006737	410742	6815901	8/10/2017			KZK	10	B	Brown	5		55	30	10	Alpine	Moist Below	Matt Brickenden
D00006738	410643	6815900	8/10/2017			KZK	10	B	Brown	10		55	30	5	Alpine	Moist Below	Matt Brickenden
D00006739	410543	6815901	8/10/2017			KZK	10	B	Brown	10		40	30	20	Alpine	Moist Below	Matt Brickenden

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D00006740	410543	6815901	8/10/2017	DUP1	D00006739	KZK	10	B	Brown	10		50	30	10	Alpine	Moist Below	Matt Brickenden
D00006741	410442	6815900	8/10/2017			KZK	10	B	Brown	10		50	25	15	Alpine	Moist Below	Matt Brickenden
D00006742	410343	6815900	8/10/2017			KZK	10	B	Brown	10		75		15	Brush	Moist Below	Matt Brickenden
D00006743	410244	6815901	8/10/2017			KZK	10	B	Brown	10		60	10	20	Brush	Moist Below	Matt Brickenden
D00006744	410145	6815901	8/10/2017			KZK	10	B	Brown	15		75		10	Brush	Moist Below	Matt Brickenden
D00006745	410045	6815901	8/10/2017			KZK	10	B	Brown	15		85			Brush	Moist Below	Matt Brickenden
D00006746	409943	6815900	8/10/2017			KZK	15	B	Brown	10	10	80			Brush	Moist Below	Matt Brickenden
D00006747	409841	6815902	8/10/2017			KZK	15	B	Brown			90		10	Brush	Moist Below	Matt Brickenden
D00006748	409747	6815899	8/10/2017			KZK	10	B	Brown			90		10	Brush	Moist Below	Matt Brickenden
D00006749	409646	6815900	8/10/2017			KZK	15	B	Brown	15	10	55	10	10	Brush	Moist Below	Matt Brickenden
D00006750	409539	6815897	8/10/2017			KZK	15	B	Brown	10			20	70	Brush	Moist Below	Matt Brickenden
D00006751	409444	6815898	8/10/2017			KZK	10	B	Brown	40		50		10	Brush	Moist Below	Matt Brickenden
D00006752	409344	6815905	8/10/2017			KZK	10	B	Brown				90	10	Brush	Moist Below	Matt Brickenden
D00006753	409245	6815901	8/10/2017			KZK	10	B	Brown	5		75	10	10	Brush	Moist Below	Matt Brickenden
D00006754	409143	6815901	8/10/2017			KZK	10	B	Brown	5		50	30	15	Brush	Moist Below	Matt Brickenden
D00006755	409046	6815902	8/10/2017			KZK	10	B	Brown	5		40	45	10	Brush	Moist Below	Matt Brickenden
D00006756	408941	6815902	8/10/2017			KZK	10	B	Brown	10		55	20	15	Brush	Moist Below	Matt Brickenden
D00006757	408644	6815900	8/10/2017			KZK	20	B	Brown	15		70	15		Brush	Moist Below	Matt Brickenden
D00006758	408544	6815903	8/10/2017			KZK	15	B	Brown	10		65	20	5	Brush	Moist Below	Matt Brickenden
D00006759	408544	6815800	8/10/2017			KZK	15	B	Brown	15		65	10	10	Alpine	Moist Below	Matt Brickenden
D00006760			8/10/2017	BLANK		KZK											Matt Brickenden
D00006761	408544	6815700	8/10/2017			KZK	10	B	Brown	15		65	10	10	Alpine	Moist Below	Matt Brickenden
D00006762	408545	6815605	8/10/2017			KZK	10	B	Brown	20		40	30	10	Alpine	Moist Below	Matt Brickenden
D00006763	408543	6815500	8/10/2017			KZK	10	B	Brown	10		40	20	30	Alpine	Moist Below	Matt Brickenden
D00006764	408443	6815503	8/10/2017			KZK	10	B	Brown	10		60	20	10	Alpine	Moist Below	Matt Brickenden
D00006765	408344	6815501	8/10/2017			KZK	5	B	Brown	40		40	10	10	Alpine	Moist Below	Matt Brickenden
D00006766	408245	6815500	8/10/2017			KZK	15	B	Brown	30		40	10	20	Alpine	Moist Below	Matt Brickenden
D00006767	408144	6815502	8/10/2017			KZK	10	B	Brown	20		50	10	20	Alpine	Moist Below	Matt Brickenden
D00006768	408041	6815502	8/10/2017			KZK	10	B	Brown	10		65	10	15	Alpine	Moist Below	Matt Brickenden

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D00006769	407942	6815501	8/10/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006770	407845	6815503	8/10/2017			KZK	5	B	Brown	10		80		10	Alpine	Moist Below	Matt Brickenden
D00006771	407842	6815599	8/10/2017			KZK	5	B	Brown	10		20	20	50	Alpine	Moist Below	Matt Brickenden
D00006772	407843	6815701	8/10/2017			KZK	5	B	Brown	10		50	20	20	Alpine	Moist Below	Matt Brickenden
D00006773	407847	6815804	8/10/2017			KZK	5	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006774	407838	6815897	8/10/2017			KZK	20	B	Brown	10		20	25	45	Brush	Moist Below	Matt Brickenden
D00006775	407840	6816001	8/10/2017			KZK	10	B	Grey	5	20	45	10	20	Brush	Moist Below	Matt Brickenden
D00006776	407847	6816098	8/10/2017			KZK	10	B	Brown	10		40	20	30	Brush	Moist Below	Matt Brickenden
D00006777	407844	6816200	8/10/2017			KZK	10	B	Brown	5		65	10	20	Brush	Moist Below	Matt Brickenden
D00006778	411645	6815196	8/11/2017			KZK	10	B	Brown	5		65	10	20	Alpine	Moist Below	Matt Brickenden
D00006779	411244	6815201	8/11/2017			KZK	10	B	Brown	5		75		20	Alpine	Moist Below	Matt Brickenden
D00006780	411245	6815200	8/11/2017	DUP1	D00006779	KZK	10	B	Brown	5		75		20	Alpine	Moist Below	Matt Brickenden
D00006781	411144	6815201	8/11/2017			KZK	15	B	Brown	5		65		30	Alpine	Moist Below	Matt Brickenden
D00006782	411045	6815200	8/11/2017			KZK	10	B	Brown	30		50	10	10	Alpine	Moist Below	Matt Brickenden
D00006783	411145	6815102	8/11/2017			KZK	10	B	Brown	20		55	10	15	Alpine	Moist Below	Matt Brickenden
D00006784	411043	6815102	8/11/2017			KZK	10	B	Brown	25		50	25		Brush	Moist Below	Matt Brickenden
D00006785	411143	6815000	8/11/2017			KZK	10	B	Brown	10		50	25	15	Brush	Moist Below	Matt Brickenden
D00006786	411044	6815001	8/11/2017			KZK	10	B	Brown	10		40	30	20	Brush	Moist Below	Matt Brickenden
D00006787	411142	6814899	8/11/2017			KZK	15	B	Brown	10		45	25	20	Brush	Moist Below	Matt Brickenden
D00006788	411045	6814899	8/11/2017			KZK	10	B	Brown	5		85	10		Brush	Moist Below	Matt Brickenden
D00006789	411146	6814800	8/11/2017			KZK	10	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00006790	410544	6815300	8/11/2017			KZK	10	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00006791	410446	6815301	8/11/2017			KZK	15	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00006792	410343	6815300	8/11/2017			KZK	15	B	Brown	10		55	25	10	Brush	Moist Below	Matt Brickenden
D00006793	410243	6815301	8/11/2017			KZK	15	B	Brown	20		35	35	10	Brush	Moist Below	Matt Brickenden
D00006794	410144	6815301	8/11/2017			KZK	15	B	Brown	10		40	50		Brush	Moist Below	Matt Brickenden
D00006795	410041	6815301	8/11/2017			KZK	15	B	Brown	20			10	70	Brush	Moist Below	Matt Brickenden
D00006796	409943	6815302	8/11/2017			KZK	15	B	Brown	10		75	15		Brush	Moist Below	Matt Brickenden
D00006797	409845	6815301	8/11/2017			KZK	15	B	Brown	15		60	15	10	Brush	Moist Below	Matt Brickenden

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D00006798	409743	6815298	8/11/2017			KZK	15	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00006799	409644	6815303	8/11/2017			KZK	15	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00006800			8/11/2017	BLANK		KZK											Matt Brickenden
D00006801	409544	6815301	8/11/2017			KZK	15	B	Brown	15		60	10	15	Brush	Moist Below	Matt Brickenden
D00006802	409444	6815301	8/11/2017			KZK	15	B	Brown	20		80			Brush	Moist Below	Matt Brickenden
D00006803	409342	6815299	8/11/2017			KZK	15	B	Brown	10		90			Brush	Moist Below	Matt Brickenden
D00006804	409245	6815302	8/11/2017			KZK	15	B	Brown	50		40	10		Brush	Moist Below	Matt Brickenden
D00006805	409145	6815301	8/11/2017			KZK	15	B	Brown	15		80		5	Alpine	Moist Below	Matt Brickenden
D00006806	409045	6815408	8/11/2017			KZK	20	B	Brown	50		40	10		Alpine	Moist Below	Matt Brickenden
D00006807	408943	6815498	8/11/2017			KZK	10	B	Brown	15		65	10	10	Brush	Moist Below	Matt Brickenden
D00006808	408844	6815598	8/11/2017			KZK	15	B	Brown	10		65	10	15	Brush	Moist Below	Matt Brickenden
D00006809	408942	6815602	8/11/2017			KZK	15	B	Brown	10		80	10		Brush	Moist Below	Matt Brickenden
D00006810	409042	6815502	8/11/2017			KZK	15	B	Brown	40		50	10		Brush	Moist Below	Matt Brickenden
D00006811	409143	6815500	8/11/2017			KZK	15	B	Brown	20		70	10		Brush	Moist Below	Matt Brickenden
D00006812	409044	6815601	8/11/2017			KZK	15	B	Brown	10		60	10	20	Brush	Moist Below	Matt Brickenden
D00006813	409344	6816202	8/11/2017			KZK	10	B	Brown	40		50	10		Brush	Moist Below	Matt Brickenden
D00006814	409446	6816204	8/11/2017			KZK	15	B	Brown	5	10	65	10	10	Brush	Moist Below	Matt Brickenden
D00006815	409541	6816203	8/11/2017			KZK	10	B	Brown	15		75		10	Brush	Moist Below	Matt Brickenden
D00006816	409644	6816200	8/11/2017			KZK	5	B	Brown	5		60	20	15	Brush	Moist Below	Matt Brickenden
D00006817	409743	6816201	8/11/2017			KZK	10	B	Brown	25		50	10	15	Brush	Moist Below	Matt Brickenden
D00006818	409843	6816200	8/11/2017			KZK	10	B	Brown	10		65	10	15	Alpine	Moist Below	Matt Brickenden
D00006819	409945	6816199	8/11/2017			KZK	10	B	Brown	10		70	10	10	Alpine	Moist Below	Matt Brickenden
D00006820	409944	6816202	8/11/2017	DUP1	D00006819	KZK	10	B	Brown	15		60	10	15	Alpine	Moist Below	Matt Brickenden
D00006821	410043	6816200	8/11/2017			KZK	10	B	Brown	5		65	10	20	Alpine	Moist Below	Matt Brickenden
D00006822	410145	6816201	8/11/2017			KZK	10	B	Brown	10		70	10	10	Alpine	Moist Below	Matt Brickenden
D00006823	410641	6816199	8/12/2017			KZK	5	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006824	410544	6816202	8/12/2017			KZK	10	B	Brown	15		55	15	15	Alpine	Moist Below	Matt Brickenden
D00006825	410443	6816200	8/12/2017			KZK	5	B	Brown	15		45	20	20	Alpine	Moist Below	Matt Brickenden
D00006826	410343	6816202	8/12/2017			KZK	5	B	Brown	5		85		10	Alpine	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006827	410244	6816201	8/12/2017			KZK	10	B	Brown	5		80		15	Alpine	Moist Below	Matt Brickenden
D00006828	410444	6816299	8/12/2017			KZK	10	B	Brown	50		40		10	Alpine	Moist Below	Matt Brickenden
D00006829	410543	6816303	8/12/2017			KZK	10	B	Brown	20		70	10		Alpine	Moist Below	Matt Brickenden
D00006830	410642	6816297	8/12/2017			KZK	10	B	Brown	40		50	10		Alpine	Moist Below	Matt Brickenden
D00006831	410343	6816301	8/12/2017			KZK	10	B	Brown	10		65		25	Alpine	Moist Below	Matt Brickenden
D00006832	410248	6816297	8/12/2017			KZK	10	B	Brown	30		60	10		Alpine	Moist Below	Matt Brickenden
D00006833	410143	6816300	8/12/2017			KZK	10	B	Brown			55	20	25	Alpine	Moist Below	Matt Brickenden
D00006834	410042	6816301	8/12/2017			KZK	10	B	Brown	15		50	10	25	Alpine	Moist Below	Matt Brickenden
D00006835	409943	6816300	8/12/2017			KZK	10	B	Brown	10		70	10	10	Alpine	Moist Below	Matt Brickenden
D00006836	410046	6816403	8/12/2017			KZK	10	B	Brown	10		35	35	20	Alpine	Moist Below	Matt Brickenden
D00006837	410143	6816399	8/12/2017			KZK	10	B	Brown	10		40	30	20	Alpine	Moist Below	Matt Brickenden
D00006838	410243	6816405	8/12/2017			KZK	10	B	Brown	10		50	20	20	Alpine	Moist Below	Matt Brickenden
D00006839	410345	6816403	8/12/2017			KZK	10	B	Brown	45		35	10	10	Alpine	Moist Below	Matt Brickenden
D00006840			8/12/2017	BLANK		KZK											Matt Brickenden
D00006841	410444	6816399	8/12/2017			KZK	10	B	Brown	15		40	15	30	Alpine	Moist Below	Matt Brickenden
D00006842	410544	6816400	8/12/2017			KZK	10	B	Brown	35		55	10		Alpine	Moist Below	Matt Brickenden
D00006843	410643	6816399	8/12/2017			KZK	5	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006844	411643	6816603	8/12/2017			KZK	10	B	Brown			60	20	20	Brush	Moist Below	Matt Brickenden
D00006845	411546	6816601	8/12/2017			KZK	15	B	Brown	10		50	30	10	Brush	Moist Below	Matt Brickenden
D00006846	411443	6816601	8/12/2017			KZK	10	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00006847	411342	6816600	8/12/2017			KZK	10	B	Brown	20		50	20	10	Brush	Moist Below	Matt Brickenden
D00006848	411243	6816600	8/12/2017			KZK	10	B	Brown	10		35	35	20	Brush	Moist Below	Matt Brickenden
D00006849	411143	6816601	8/12/2017			KZK	10	B	Brown	10	10	35	35	10	Alpine	Moist Below	Matt Brickenden
D00006850	411043	6816600	8/12/2017			KZK	15	B	Brown	10		50	30	10	Alpine	Moist Below	Matt Brickenden
D00006851	410944	6816599	8/12/2017			KZK	10	B	Brown	10		45	35	10	Alpine	Moist Below	Matt Brickenden
D00006852	410840	6816598	8/12/2017			KZK	10	B	Brown	10		35	35	20	Brush	Moist Below	Matt Brickenden
D00006853	410746	6816602	8/12/2017			KZK	10	B	Brown	20		80			Brush	Moist Below	Matt Brickenden
D00006854	410646	6816601	8/12/2017			KZK	10	B	Brown	10	10	50	20	10	Brush	Moist Below	Matt Brickenden
D00006855	410545	6816601	8/12/2017			KZK	10	B	Brown	10	10	30	30	20	Alpine	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00006856	410445	6816601	8/12/2017			KZK	10	B	Brown	30		30	10	30	Alpine	Moist Below	Matt Brickenden
D00006857	410341	6816600	8/12/2017			KZK	10	B	Brown	10	10	50	10	20	Alpine	Moist Below	Matt Brickenden
D00006858	410243	6816600	8/12/2017			KZK	10	B	Brown	10		65	10	15	Alpine	Moist Below	Matt Brickenden
D00006859	410147	6816600	8/12/2017			KZK	10	B	Brown	40		15	10	35	Alpine	Moist Below	Matt Brickenden
D00006860	410147	6816598	8/12/2017	DUP1	D00006859	KZK	10	B	Brown	30		50	10	10	Alpine	Moist Below	Matt Brickenden
D00006861	410044	6816600	8/12/2017			KZK	10	B	Brown	30	10	50	10		Alpine	Moist Below	Matt Brickenden
D00006862	409944	6816602	8/12/2017			KZK	10	B	Brown	10	10	50	10	20	Alpine	Moist Below	Matt Brickenden
D00006863	410445	6812800	8/13/2017			KZK	5	B	Brown	15		75	10		Alpine	Moist Below	Matt Brickenden
D00006864	410445	6812701	8/13/2017			KZK	10	B	Brown	10		50	20	20	Alpine	Moist Below	Matt Brickenden
D00006865	410445	6812600	8/13/2017			KZK	5	B	Brown	10		70	10	10	Alpine	Moist Below	Matt Brickenden
D00006866	410444	6812503	8/13/2017			KZK	5	B	Brown	10	10	40	20	20	Alpine	Moist Below	Matt Brickenden
D00006867	410346	6812503	8/13/2017			KZK	10	B	Brown	10	10	40	20	20	Alpine	Moist Below	Matt Brickenden
D00006868	410342	6812600	8/13/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00006869	410342	6812702	8/13/2017			KZK	5	B	Brown	10		40	25	25	Alpine	Moist Below	Matt Brickenden
D00006870	410346	6812801	8/13/2017			KZK	5	B	Brown	10		70	10	10	Alpine	Moist Below	Matt Brickenden
D00006871	410346	6812903	8/13/2017			KZK	10	B	Brown	15		55	10	20	Alpine	Moist Below	Matt Brickenden
D00006872	410344	6813003	8/13/2017			KZK	10	B	Brown	10		40	35	15	Alpine	Moist Below	Matt Brickenden
D00006873	410344	6813103	8/13/2017			KZK	10	B	Brown	10		40	30	20	Alpine	Moist Below	Matt Brickenden
D00006874	410344	6813199	8/13/2017			KZK	5	B	Brown	10		35	35	20	Alpine	Moist Below	Matt Brickenden
D00006875	410145	6813099	8/13/2017			KZK	10	B	Brown	10		35	35	20	Alpine	Moist Below	Matt Brickenden
D00006876	410046	6813000	8/13/2017			KZK	5	B	Brown	10		40	25	25	Alpine	Moist Below	Matt Brickenden
D00006877	410046	6813101	8/13/2017			KZK	10	B	Brown	10		25	40	25	Alpine	Moist Below	Matt Brickenden
D00006878	410143	6813002	8/13/2017			KZK	10	B	Brown	5	10	40	35	10	Alpine	Moist Below	Matt Brickenden
D00006879	410145	6813199	8/13/2017			KZK	5	B	Brown	15		35	35	15	Alpine	Moist Below	Matt Brickenden
D00006880	410146	6813198	8/13/2017	DUP1	D00006879	KZK	5	B	Brown	20		30	35	15	Alpine	Moist Below	Matt Brickenden
D00006881	410143	6813300	8/13/2017			KZK	5	B	Brown	10		30	40	20	Alpine	Moist Below	Matt Brickenden
D00006882	410143	6813403	8/13/2017			KZK	10	B	Brown	10		30	40	20	Alpine	Moist Below	Matt Brickenden
D00006883	410144	6813501	8/13/2017			KZK	5	B	Brown	10		20	40	30	Alpine	Moist Below	Matt Brickenden
D00006884	410140	6813601	8/13/2017			KZK	5	B	Brown	10		20	40	30	Alpine	Moist Below	Matt Brickenden

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D00006885	410153	6813710	8/13/2017			KZK	5	B	Brown	10		30	40	20	Alpine	Moist Below	Matt Brickenden
D00006886	410144	6813800	8/13/2017			KZK	10	B	Brown	25		45	10	20	Alpine	Moist Below	Matt Brickenden
D00006887	410042	6813398	8/13/2017			KZK	5	B	Brown	20		20	30	30	Alpine	Moist Below	Matt Brickenden
D00006888	410042	6813507	8/13/2017			KZK	15	B	Brown	20		50	20	10	Alpine	Moist Below	Matt Brickenden
D00006889	410044	6813601	8/13/2017			KZK	10	B	Brown	20		40	20	20	Alpine	Moist Below	Matt Brickenden
D00006890	410045	6813699	8/13/2017			KZK	10	B	Brown	20		20	40	20	Alpine	Moist Below	Matt Brickenden
D00006891	410044	6813801	8/13/2017			KZK	10	B	Brown	20		30	30	20	Alpine	Moist Below	Matt Brickenden
D00006892	410043	6813899	8/13/2017			KZK	10	B	Brown	50		10	30	10	Alpine	Moist Below	Matt Brickenden
D00006893	410043	6813999	8/13/2017			KZK	10	B	Brown	5		50	40	5	Alpine	Moist Below	Matt Brickenden
D00006894	410038	6814106	8/13/2017			KZK	10	B	Brown	10		40	30	20	Alpine	Moist Below	Matt Brickenden
D00006895	410145	6814000	8/13/2017			KZK	10	B	Brown	15		40	25	20	Alpine	Moist Below	Matt Brickenden
D00006896	410147	6813901	8/13/2017			KZK	10	B	Brown	10		40	30	20	Alpine	Moist Below	Matt Brickenden
D00006897	410143	6814102	8/13/2017			KZK	10	B	Brown	15		35	25	25	Alpine	Moist Below	Matt Brickenden
D00006898	410042	6814198	8/13/2017			KZK	10	B	Brown	15		20	45	20	Alpine	Moist Below	Matt Brickenden
D00006899	410144	6814201	8/13/2017			KZK	10	B	Brown	15		25	35	25	Alpine	Moist Below	Matt Brickenden
D00006900	410145	6814201	8/13/2017	DUP1	D00006899	KZK	10	B	Brown	15		25	35	25	Alpine	Moist Below	Matt Brickenden
D00006901	408040	6815703	8/11/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006902	408140	6815702	8/11/2017			KZK	20	B	Grey	20		70		10	Alpine		Mackenzie Hett
D00006903	408241	6815699	8/11/2017			KZK	20	B	Brown	30		60		10	Alpine		Mackenzie Hett
D00006904	408336	6815698	8/11/2017			KZK	10	B	Brown	10		70		20	Talus		Mackenzie Hett
D00006905	408443	6815798	8/11/2017			KZK	20	B	Brown	40		60			Alpine		Mackenzie Hett
D00006906	408335	6815801	8/11/2017			KZK	15	B	Brown	30		70			Alpine		Mackenzie Hett
D00006907	408250	6815794	8/11/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006908	408150	6815796	8/11/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006909	408047	6815796	8/11/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006910	407940	6815796	8/11/2017			KZK	20	B	Brown	30		60		10	Brush		Mackenzie Hett
D00006911	407940	6815899	8/11/2017			KZK	15	B	Grey	10	20	60		10	Brush		Mackenzie Hett
D00006912	408038	6815912	8/11/2017			KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006913	408143	6815907	8/11/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett

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D00006914	408244	6815897	8/11/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006915	408329	6815899	8/11/2017			KZK	20	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006916	408440	6815906	8/11/2017			KZK	20	B	Black	20		70		10	Alpine		Mackenzie Hett
D00006917	408743	6816308	8/11/2017			KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006918	408752	6816508	8/11/2017			KZK	15	B	Brown	30		60		10	Alpine		Mackenzie Hett
D00006919	408647	6816491	8/11/2017			KZK	20	B	Brown	10		40	40	10	Brush		Mackenzie Hett
D00006920			8/11/2017	BLANK		KZK											Mackenzie Hett
D00006921	408549	6816499	8/11/2017			KZK	20	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006922	408451	6816497	8/11/2017			KZK	20	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006923	408349	6816497	8/11/2017			KZK	20	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006924	408246	6816489	8/11/2017			KZK	15	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006925	408144	6816498	8/11/2017			KZK	15	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006926	409844	6817106	8/12/2017			KZK	15	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006927	409948	6817106	8/12/2017			KZK	20	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006928	411038	6816802	8/12/2017			KZK	20	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006929	410146	6816797	8/12/2017			KZK	20	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006930	410238	6816804	8/12/2017			KZK	20	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006931	410336	6816799	8/12/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006932	410439	6816794	8/12/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006933	410538	6816808	8/12/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
D00006934	410637	6816796	8/12/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006935	410746	6816796	8/12/2017			KZK	20	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006936	410838	6816798	8/12/2017			KZK	15	B	Grey			90		10	Brush		Mackenzie Hett
D00006937	410940	6816796	8/12/2017			KZK	20	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006938	410044	6817102	8/12/2017			KZK	25	B	Brown	20		70		10	Brush		Mackenzie Hett
D00006939	411140	6816800	8/12/2017			KZK	20	B	Grey	10		40	40	10	Brush		Mackenzie Hett
D00006940	411141	6816801	8/12/2017	DUP1	D00006939	KZK	20	B	Grey	10		40	40	10	Brush		Mackenzie Hett
D00006941	411238	6816796	8/12/2017			KZK	20	B	Brown	10		40	40	10	Brush		Mackenzie Hett
D00006942	411340	6816797	8/12/2017			KZK	20	B	Grey	10		40	40	10	Brush		Mackenzie Hett

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D00006943	411438	6816799	8/12/2017			KZK	20	B	Red Brown	10		40	40	10	Brush		Mackenzie Hett
D00006944	411534	6816803	8/12/2017			KZK	20	B	Black	40		60			Brush		Mackenzie Hett
D00006945	411542	6816694	8/12/2017			KZK	20	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006946	411446	6816696	8/12/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006947	411344	6816701	8/12/2017			KZK	20	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006948	411246	6816696	8/12/2017			KZK	20	B	Orange	10		80		10	Brush		Mackenzie Hett
D00006949	411146	6816704	8/12/2017			KZK	15	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006950	411042	6816689	8/12/2017			KZK	20	B	Brown	20		70		10	Swamp		Mackenzie Hett
D00006951	410947	6816696	8/12/2017			KZK	20	B	Brown			50	50		Brush		Mackenzie Hett
D00006952	410849	6816697	8/12/2017			KZK	20	B	Brown	20		80			Brush		Mackenzie Hett
D00006953	410749	6816701	8/12/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006954	410646	6816700	8/12/2017			KZK	25	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006955	410551	6816697	8/12/2017			KZK	25	B	Grey	50		40		10	Alpine		Mackenzie Hett
D00006956	410447	6816696	8/12/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
D00006957	410352	6816700	8/12/2017			KZK	20	B	Black	10		50		40	Alpine		Mackenzie Hett
D00006958	410245	6816692	8/12/2017			KZK	15	B	Black	10		70		20	Alpine		Mackenzie Hett
D00006959	409638	6816595	8/12/2017			KZK	20	B	Grey	20		80			Alpine		Mackenzie Hett
D00006960			8/12/2017	BLANK		KZK											Mackenzie Hett
D00006961	409739	6816602	8/12/2017			KZK	25	B	Black	20		70		10	Alpine		Mackenzie Hett
D00006962	409836	6816610	8/12/2017			KZK	25	B	Grey	20		70		10	Alpine		Mackenzie Hett
D00006963	410240	6813000	8/13/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006964	410245	6813099	8/13/2017			KZK	15	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006965	410252	6813196	8/13/2017			KZK	15	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006966	410246	6813393	8/13/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006967	410242	6813499	8/13/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006968	410238	6813598	8/13/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006969	410253	6813802	8/13/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006970	410453	6813788	8/13/2017			KZK	15	B	Grey	10		80		10	Alpine		Mackenzie Hett
D00006971	410546	6813807	8/13/2017			KZK	15	B	Grey	20		70		10	Alpine		Mackenzie Hett

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D00006972	410649	6813798	8/13/2017			KZK	20	B	Grey	20		70		10	Alpine		Mackenzie Hett
D00006973	410550	6813904	8/13/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
D00006974	410454	6813898	8/13/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
D00006975	410351	6813911	8/13/2017			KZK	15	B	Brown	10		80		10	Talus	Mudslide	Mackenzie Hett
D00006976	410246	6814007	8/13/2017			KZK	15	B	Brown	10		80		10	Talus		Mackenzie Hett
D00006977	410247	6813901	8/13/2017			KZK	15	B	Black	10		80		10	Alpine		Mackenzie Hett
D00006978	410345	6813993	8/13/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
D00006979	410440	6813999	8/13/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006980	410439	6814003	8/13/2017	DUP1	D00006979	KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006981	410536	6814001	8/13/2017			KZK	20	B	Brown	20		70		10	Alpine		Mackenzie Hett
D00006982	410551	6814095	8/13/2017			KZK	25	B	Grey	20		70		10	Alpine		Mackenzie Hett
D00006983	410541	6814192	8/13/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006984	410543	6814294	8/13/2017			KZK	15	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006985	410545	6814399	8/13/2017			KZK	20	B	Brown	10		80		10	Alpine		Mackenzie Hett
D00006986	410640	6814401	8/13/2017			KZK	20	B	Black	10		80		10	Alpine		Mackenzie Hett
D00006987	410730	6814411	8/13/2017			KZK	20	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006988	410754	6814498	8/13/2017			KZK	20	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006989	410752	6814606	8/13/2017			KZK	20	B	Orange	10		80		10	Brush		Mackenzie Hett
D00006990	410746	6814701	8/13/2017			KZK	20	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006991	410740	6814795	8/13/2017			KZK	25	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006992	410752	6814899	8/13/2017			KZK	25	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006993	410746	6814993	8/13/2017			KZK	20	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006994	410752	6815102	8/13/2017			KZK	25	B	Brown	10		80		10	Brush		Mackenzie Hett
D00006995	410841	6815089	8/13/2017			KZK	25	B	Grey	10		80		10	Brush		Mackenzie Hett
D00006996	410356	6814796	8/15/2017			KZK	25	B	Black	20		80			Alpine	Moist Below	Jake Lucyshyn
D00006997	410248	6814890	8/15/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Jake Lucyshyn
D00006998	410149	6815000	8/15/2017			KZK	25	B	Brown	10		90			Alpine	Moist Below	Jake Lucyshyn
D00006999	410243	6815000	8/15/2017			KZK	20	B	Brown	20		80			Alpine	Moist Below	Jake Lucyshyn
D00007101	412445	6813401	8/7/2017			KZK	10	B	Brown	20		50	10	20	Alpine	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007102	412443	6813501	8/7/2017			KZK	10	B	Brown	10		65		25	Alpine	Moist Below	Spencer Postman
D00007103	412444	6813599	8/7/2017			KZK	10	B	Brown	10	10	55		25	Alpine	Moist Below	Spencer Postman
D00007104	412442	6813700	8/7/2017			KZK	15	B	Brown		10	60	20	10	Alpine	Moist Below	Spencer Postman
D00007105	412447	6813800	8/7/2017			KZK	15	B	Grey	10	10	50		30	Alpine	Moist Below	Spencer Postman
D00007106	412443	6813901	8/7/2017			KZK	10	B	Brown	20	20	40		20	Alpine	Moist Below	Spencer Postman
D00007107	412443	6814000	8/7/2017			KZK	5	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00007108	412445	6814101	8/7/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00007109	412444	6814201	8/7/2017			KZK	5	B	Brown	10		60	20	10	Alpine	Moist Below	Spencer Postman
D00007110	412442	6814301	8/7/2017			KZK	10	B	Brown	10		40	20	30	Alpine	Moist Below	Spencer Postman
D00007111	412446	6814402	8/7/2017			KZK	15	B	Brown	30		45		25	Alpine	Moist Below	Spencer Postman
D00007112	412443	6814500	8/7/2017			KZK	5	B	Brown	30		45	25		Alpine	Moist Below	Spencer Postman
D00007113	412444	6814602	8/7/2017			KZK	10	B	Brown	10	10	50		30	Alpine	Moist Below	Spencer Postman
D00007114	412446	6814701	8/7/2017			KZK	15	B	Brown	30	10	40		20	Alpine	Moist Below	Spencer Postman
D00007115	412444	6814799	8/7/2017			KZK	5	B	Brown	15		45		40	Alpine	Moist Below	Spencer Postman
D00007116	412446	6814903	8/7/2017			KZK	10	B	Brown	10	10	40		40	Alpine	Moist Below	Spencer Postman
D00007117	412444	6814999	8/7/2017			KZK	10	B	Brown	10		65		25	Alpine	Moist Below	Spencer Postman
D00007118	412445	6815101	8/7/2017			KZK	5	B	Brown	20		55		25	Alpine	Moist Below	Spencer Postman
D00007119	412446	6815197	8/7/2017			KZK	15	B	Brown	15		50	10	25	Alpine	Moist Below	Spencer Postman
D00007120			8/7/2017	BLANK		KZK											Spencer Postman
D00007121	412442	6815305	8/7/2017			KZK	10	B	Brown	10		50	10	30	Alpine	Moist Below	Spencer Postman
D00007122	412445	6815401	8/7/2017			KZK	10	B	Brown	20		30	20	30	Alpine	Moist Below	Spencer Postman
D00007123	412444	6815502	8/7/2017			KZK	15	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007124	412444	6815603	8/7/2017			KZK	15	B	Brown	10		70	20		Alpine	Moist Below	Spencer Postman
D00007125	412446	6815702	8/7/2017			KZK	20	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00007126	412445	6815799	8/7/2017			KZK	25	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007127	412443	6815901	8/7/2017			KZK	15	B	Brown	20		40	10	30	Alpine	Moist Below	Spencer Postman
D00007128	412443	6816000	8/7/2017			KZK	10	B	Brown	30		30	20	20	Brush	Moist Below	Spencer Postman
D00007129	412443	6816101	8/7/2017			KZK	10	B	Brown	40		40		20	Brush	Moist Below	Spencer Postman
D00007130	412542	6816298	8/7/2017			KZK	15	B	Brown	30		40	20	10	Brush	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007131	412445	6816302	8/7/2017			KZK	20	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00007132	412344	6816304	8/7/2017			KZK	5	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00007133	412243	6816301	8/7/2017			KZK	10	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007134	412145	6816301	8/7/2017			KZK	5	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007135	412046	6816300	8/7/2017			KZK	25	B	Brown	50		30		20	Brush	Moist Below	Spencer Postman
D00007136	411945	6816303	8/7/2017			KZK	20	B	Brown	20		40	10	30	Brush	Wet 5 cm	Spencer Postman
D00007137	411845	6816308	8/7/2017			KZK	10	B	Brown	30		50	10	10	Alpine	Moist Below	Spencer Postman
D00007138	411742	6816305	8/7/2017			KZK	5	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007139	411642	6816303	8/7/2017			KZK	10	B	Brown	30		40	20	10	Alpine	Moist Below	Spencer Postman
D00007140	411548	6816298	8/7/2017			KZK	15	B	Brown	15		60		25	Alpine	Moist Below	Spencer Postman
D00007141	411448	6816305	8/7/2017			KZK	5	B	Brown	20		35	20	25	Alpine	Moist Below	Spencer Postman
D00007142	411344	6816302	8/7/2017			KZK	25	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007143	411248	6816297	8/7/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007144	412144	6813404	8/7/2017			KZK	10	B	Brown	30		45		25	Alpine	Moist Below	Spencer Postman
D00007145	412146	6813503	8/7/2017			KZK	15	B	Brown	20		40	10	30	Alpine	Moist Below	Spencer Postman
D00007146	412143	6813600	8/7/2017			KZK	15	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00007147	412145	6813699	8/7/2017			KZK	15	B	Brown	20		30		50	Alpine	Moist Below	Spencer Postman
D00007148	412146	6813800	8/7/2017			KZK	10	B	Brown	20		30	10	40	Alpine	Moist Below	Spencer Postman
D00007149	412145	6813898	8/7/2017			KZK	20	B	Brown	20		40	20	20	Alpine	Moist Below	Spencer Postman
D00007150	412144	6813999	8/7/2017			KZK	5	B	Brown	10		40	20	30	Alpine	Moist Below	Spencer Postman
D00007151	412143	6814100	8/7/2017			KZK	15	B	Brown	20		30	20	30	Alpine	Moist Below	Spencer Postman
D00007152	412142	6814200	8/7/2017			KZK	10	B	Brown	30		30	10	30	Alpine	Moist Below	Spencer Postman
D00007153	412148	6814299	8/7/2017			KZK	15	B	Brown	20		30	20	30	Alpine	Moist Below	Spencer Postman
D00007154	412145	6814399	8/7/2017			KZK	5	B	Brown	20	10	50		20	Alpine	Moist Below	Spencer Postman
D00007155	412144	6814501	8/7/2017			KZK	5	B	Brown	10		50	30	10	Alpine	Moist Below	Spencer Postman
D00007156	412141	6814600	8/7/2017			KZK	10	B	Brown	10	10	70		10	Alpine	Moist Below	Spencer Postman
D00007157	412142	6814700	8/7/2017			KZK	10	B	Brown	10		50		40	Alpine	Moist Below	Spencer Postman
D00007158	412142	6814798	8/7/2017			KZK	5	B	Brown	10		50	20	20	Alpine	Moist Below	Spencer Postman
D00007159	412143	6814902	8/7/2017			KZK	10	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007160	412145	6815003	8/7/2017			KZK	20	B	Brown	40	10	30		20	Alpine	Moist Below	Spencer Postman
D00007161	412145	6815101	8/7/2017			KZK	15	B	Brown	5	10	55	20	10	Alpine	Moist Below	Spencer Postman
D00007162	412147	6815199	8/7/2017			KZK	10	B	Brown	10	10	50	20	10	Alpine	Moist Below	Spencer Postman
D00007163	412141	6815301	8/7/2017			KZK	15	B	Brown		10	50	20	20	Alpine	Moist Below	Spencer Postman
D00007164	412146	6815400	8/7/2017			KZK	20	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007165	412044	6815402	8/7/2017			KZK	10	B	Brown	10		55	10	25	Alpine	Moist Below	Spencer Postman
D00007166	411944	6815400	8/7/2017			KZK	10	B	Brown	20		70	10		Alpine	Moist Below	Spencer Postman
D00007167	411844	6815402	8/7/2017			KZK	15	B	Brown		20	40	10	30	Alpine	Moist Below	Spencer Postman
D00007168	411744	6815400	8/7/2017			KZK	15	B	Brown		10	50	10	30	Alpine	Moist Below	Spencer Postman
D00007169	411644	6815402	8/7/2017			KZK	10	B	Brown	20	10	50		20	Alpine	Moist Below	Spencer Postman
D00007170	411544	6815400	8/7/2017			KZK	20	B	Brown	40	10	40	10		Alpine	Moist Below	Spencer Postman
D00007171	411444	6815402	8/7/2017			KZK	5	B	Brown	20	10	40		30	Alpine	Moist Below	Spencer Postman
D00007172	411345	6815400	8/7/2017			KZK	15	B	Brown	30	10	30	10	20	Alpine	Moist Below	Spencer Postman
D00007173	411243	6815402	8/7/2017			KZK	10	B	Brown	20	10	40		30	Alpine	Moist Below	Spencer Postman
D00007174	411143	6815400	8/7/2017			KZK	15	B	Brown	30	10	40		20	Alpine	Moist Below	Spencer Postman
D00007175	411043	6815400	8/7/2017			KZK	15	B	Brown	20		60	10	10	Alpine	Moist Below	Spencer Postman
D00007176	410943	6815401	8/7/2017			KZK	20	B	Brown	10		50		40	Alpine	Moist Below	Spencer Postman
D00007177	410844	6815402	8/7/2017			KZK	5	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007178	410749	6815404	8/7/2017			KZK	5	B	Brown	40		30	10	20	Alpine	Moist Below	Spencer Postman
D00007179	410647	6815403	8/7/2017			KZK	10	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007180			8/7/2017	BLANK		KZK											Spencer Postman
D00007181	410543	6815399	8/7/2017			KZK	10	B	Brown	30	10	40		20	Alpine	Moist Below	Spencer Postman
D00007182	410447	6815403	8/7/2017			KZK	5	B	Brown	10		60	20	10	Alpine	Moist Below	Spencer Postman
D00007183	410346	6815402	8/7/2017			KZK	10	B	Brown	40		30	10	20	Brush	Moist Below	Spencer Postman
D00007184	410246	6815405	8/7/2017			KZK	10	B	Brown	30		50		20	Brush	Moist Below	Spencer Postman
D00007185	410141	6815400	8/7/2017			KZK	15	B	Brown	40	10	40		10	Brush	Moist Below	Spencer Postman
D00007186	410047	6815398	8/7/2017			KZK	10	B	Brown	20		30	20	30	Brush	Moist Below	Spencer Postman
D00007187	409941	6815404	8/7/2017			KZK	10	B	Brown	20		20	20	40	Brush	Moist Below	Spencer Postman
D00007188	409844	6815401	8/7/2017			KZK	20	B	Brown	40	0	30	10	20	Brush	Moist Below	Spencer Postman

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D00007189	409743	6815400	8/7/2017			KZK	20	B	Brown	30	10	50	0	10	Alpine	Moist Below	Spencer Postman
D00007190	409645	6815402	8/7/2017			KZK	10	B	Brown	40	0	40	0	20	Alpine	Moist Below	Spencer Postman
D00007191	409546	6815403	8/7/2017			KZK	10	B	Brown	20	0	60	0	20	Alpine	Moist Below	Spencer Postman
D00007192	409445	6815399	8/7/2017			KZK	25	B	Brown	40	0	40	0	20	Alpine	Moist Below	Spencer Postman
D00007193	409343	6815403	8/7/2017			KZK	20	B	Brown	40	0	30	10	20	Alpine	Moist Below	Spencer Postman
D00007194	409246	6815401	8/7/2017			KZK	10	B	Brown	20	0	30	10	40	Alpine	Moist Below	Spencer Postman
D00007195	409145	6815398	8/7/2017			KZK	10	B	Brown	30	0	40	10	20	Alpine	Moist Below	Spencer Postman
D00007196	409045	6815400	8/7/2017			KZK	5	B	Brown	10	0	60	20	10	Alpine	Moist Below	Spencer Postman
D00007197	411543	6817002	8/8/2017			KZK	5	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007198	411445	6817002	8/8/2017			KZK	10	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007199	411346	6817003	8/8/2017			KZK	10	B	Brown	20	10	70			Alpine	Moist Below	Spencer Postman
D00007200	411243	6816999	8/8/2017			KZK	5	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007201	411145	6817000	8/8/2017			KZK	10	B	Brown	30	10	40		20	Alpine	Moist Below	Spencer Postman
D00007202	411043	6817000	8/8/2017			KZK	10	B	Brown	30		50	10	10	Alpine	Moist Below	Spencer Postman
D00007203	410945	6817001	8/8/2017			KZK	30	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007204	410845	6817003	8/8/2017			KZK	15	B	Brown	10	10	40	20	20	Brush	Moist Below	Spencer Postman
D00007205	410742	6817002	8/8/2017			KZK	10	B	Brown	25		40	10	25	Brush	Moist Below	Spencer Postman
D00007206	410645	6816999	8/8/2017			KZK	10	B	Brown	30		40	10	20	Brush	Moist Below	Spencer Postman
D00007207	410546	6816998	8/8/2017			KZK	10	B	Brown	20	10	50		20	Brush	Moist Below	Spencer Postman
D00007208	410446	6816998	8/8/2017			KZK	10	B	Brown	30		50		20	Brush	Moist Below	Spencer Postman
D00007209	410343	6817001	8/8/2017			KZK	10	B	Brown	20		50	10	20	Brush	Moist Below	Spencer Postman
D00007210	410239	6817005	8/8/2017			KZK	5	B	Brown	30		40		30	Brush	Moist Below	Spencer Postman
D00007211	410137	6817007	8/8/2017			KZK	10	B	Brown	40		30		30	Brush	Moist Below	Spencer Postman
D00007212	410033	6817013	8/8/2017			KZK	5	B	Brown	30		60		10	Brush	Moist Below	Spencer Postman
D00007213	409943	6816994	8/8/2017			KZK	5	B	Brown	10		70		20	Brush	Moist Below	Spencer Postman
D00007214	409838	6816996	8/8/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007215	409741	6817004	8/8/2017			KZK	15	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007216	408643	6816701	8/8/2017			KZK	10	B	Brown	30	10	30		30	Brush	Moist Below	Spencer Postman
D00007217	408744	6816701	8/8/2017			KZK	10	B	Brown	20		40	30	10	Brush	Moist Below	Spencer Postman

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D00007218	408845	6816698	8/8/2017			KZK	20	B	Brown	10		50	10	30	Brush	Moist Below	Spencer Postman
D00007219	408946	6816702	8/8/2017			KZK	10	B	Brown	20		50	10	20	Brush	Moist Below	Spencer Postman
D00007220	408947	6816701	8/8/2017	DUP1	D00007219	KZK	10	B	Brown	30	10	20	10	30	Brush	Moist Below	Spencer Postman
D00007221	409050	6816700	8/8/2017			KZK	10	B	Brown	30	10	40		20	Brush	Moist Below	Spencer Postman
D00007222	409151	6816700	8/8/2017			KZK	15	B	Brown	50		40		10	Brush	Moist Below	Spencer Postman
D00007223	409248	6816702	8/8/2017			KZK	30	B	Brown	40		30		30	Brush	Moist Below	Spencer Postman
D00007224	409348	6816702	8/8/2017			KZK	20	B	Brown	20	10	40		30	Brush	Moist Below	Spencer Postman
D00007225	409446	6816703	8/8/2017			KZK	10	B	Brown	30	10	40		20	Brush	Moist Below	Spencer Postman
D00007226	409544	6816701	8/8/2017			KZK	10	B	Brown	40		20		40	Brush	Moist Below	Spencer Postman
D00007227	409640	6816705	8/8/2017			KZK	20	B	Brown	30		50		20	Brush	Moist Below	Spencer Postman
D00007228	409745	6816703	8/8/2017			KZK	20	B	Brown	30		40	20	10	Brush	Moist Below	Spencer Postman
D00007229	409846	6816704	8/8/2017			KZK	10	B	Brown	30	10	20		40	Brush	Moist Below	Spencer Postman
D00007230	409942	6816695	8/8/2017			KZK	20	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007231	410043	6816700	8/8/2017			KZK	10	B	Brown		10	60		30	Alpine	Moist Below	Spencer Postman
D00007232	410147	6816705	8/8/2017			KZK	10	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00007233	411845	6813401	8/9/2017			KZK	5	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007234	411843	6813500	8/9/2017			KZK	10	B	Brown	30		30		40	Alpine	Moist Below	Spencer Postman
D00007235	411846	6813601	8/9/2017			KZK	10	B	Brown	30	10	30		30	Alpine	Moist Below	Spencer Postman
D00007236	411844	6813700	8/9/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00007237	411843	6813797	8/9/2017			KZK	10	B	Brown	10		40	20	30	Alpine	Moist Below	Spencer Postman
D00007238	411845	6813900	8/9/2017			KZK	5	B	Brown	30	10	50		10	Alpine	Moist Below	Spencer Postman
D00007239	411846	6813999	8/9/2017			KZK	10	B	Brown	10		50	20	20	Alpine	Moist Below	Spencer Postman
D00007240	411844	6814104	8/9/2017			KZK	10	B	Brown	40		30		30	Alpine	Moist Below	Spencer Postman
D00007241	411844	6814201	8/9/2017			KZK	15	B	Brown			70	10	20	Alpine	Moist Below	Spencer Postman
D00007242	411843	6814301	8/9/2017			KZK	10	B	Brown			70	20	10	Alpine	Moist Below	Spencer Postman
D00007243	411843	6814402	8/9/2017			KZK	20	B	Brown	40		30		30	Alpine	Moist Below	Spencer Postman
D00007244	411847	6814503	8/9/2017			KZK	15	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007245	411845	6814602	8/9/2017			KZK	10	B	Brown	20		40	20	20	Alpine	Moist Below	Spencer Postman
D00007246	411845	6814704	8/9/2017			KZK	10	B	Brown			60	20	20	Alpine	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007247	411845	6814801	8/9/2017			KZK	15	B	Brown	30		30	10	30	Alpine	Moist Below	Spencer Postman
D00007248	411846	6814901	8/9/2017			KZK	5	B	Brown	40		50	10		Alpine	Moist Below	Spencer Postman
D00007249	411845	6815000	8/9/2017			KZK	10	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00007250	411844	6815101	8/9/2017			KZK	10	B	Brown	30		30	20	20	Alpine	Moist Below	Spencer Postman
D00007251	411847	6815199	8/9/2017			KZK	10	B	Brown	30	10	50		10	Alpine	Moist Below	Spencer Postman
D00007252	411445	6815203	8/9/2017			KZK	5	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00007253	411444	6815102	8/9/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007254	411443	6815002	8/9/2017			KZK	10	B	Brown	20		40	10	30	Alpine	Moist Below	Spencer Postman
D00007255	411444	6814903	8/9/2017			KZK	10	B	Brown	30		50	10	10	Alpine	Moist Below	Spencer Postman
D00007256	411446	6814800	8/9/2017			KZK	15	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007257	411443	6814701	8/9/2017			KZK	10	B	Brown	30		50	10	10	Alpine	Moist Below	Spencer Postman
D00007258	411446	6814603	8/9/2017			KZK	10	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007259	411446	6814502	8/9/2017			KZK	10	B	Brown	20		40	20	20	Alpine	Moist Below	Spencer Postman
D00007260			8/9/2017	BLANK		KZK											Spencer Postman
D00007261	411446	6814400	8/9/2017			KZK	15	B	Brown	20		60	10	10	Alpine	Moist Below	Spencer Postman
D00007262	411446	6814301	8/9/2017			KZK	10	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00007263	411447	6814202	8/9/2017			KZK	10	B	Brown	10		60	20	10	Alpine	Moist Below	Spencer Postman
D00007264	411446	6814102	8/9/2017			KZK	10	B	Brown	20		50	10	20	Alpine	Moist Below	Spencer Postman
D00007265	411442	6814003	8/9/2017			KZK	10	B	Brown	10		40	20	30	Alpine	Moist Below	Spencer Postman
D00007266	411443	6813903	8/9/2017			KZK	15	B	Brown	10		60	10	20	Alpine	Moist Below	Spencer Postman
D00007267	411446	6813804	8/9/2017			KZK	15	B	Brown	10		50	20	20	Alpine	Moist Below	Spencer Postman
D00007268	411445	6813704	8/9/2017			KZK	15	B	Brown	10	10	70		10	Alpine	Moist Below	Spencer Postman
D00007269	411445	6813602	8/9/2017			KZK	10	B	Brown	40		50		10	Alpine	Moist Below	Spencer Postman
D00007270	411447	6813507	8/9/2017			KZK	5	B	Brown	10		50	20	20	Alpine	Moist Below	Spencer Postman
D00007271	411440	6813401	8/9/2017			KZK	10	B	Brown		10	70	10	10	Alpine	Moist Below	Spencer Postman
D00007272	411443	6813302	8/9/2017			KZK	5	B	Brown	10		60	10	20	Alpine	Moist Below	Spencer Postman
D00007273	411242	6813297	8/9/2017			KZK	10	B	Brown	50		40		10	Alpine	Moist Below	Spencer Postman
D00007274	411146	6813301	8/9/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00007275	411143	6813401	8/9/2017			KZK	5	B	Brown	10		60	10	20	Alpine	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007276	411147	6813498	8/9/2017			KZK	5	B	Brown	10		50	20	20	Alpine	Moist Below	Spencer Postman
D00007277	411148	6813602	8/9/2017			KZK	10	B	Brown	10		50	20	20	Alpine	Moist Below	Spencer Postman
D00007278	411142	6813701	8/9/2017			KZK	15	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007279	411145	6813802	8/9/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00007280	411134	6813799	8/9/2017	DUP1	D00007279	KZK	15	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007281	411145	6813900	8/9/2017			KZK	10	B	Brown	40		20	10	30	Alpine	Moist Below	Spencer Postman
D00007282	411144	6814004	8/9/2017			KZK	10	B	Brown	10		50	10	30	Alpine	Moist Below	Spencer Postman
D00007283	411146	6814100	8/9/2017			KZK	5	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007284	411147	6814200	8/9/2017			KZK	10	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007285	411147	6814301	8/9/2017			KZK	15	B	Brown	10		70	10	10	Alpine	Moist Below	Spencer Postman
D00007286	411144	6814401	8/9/2017			KZK	10	B	Brown			70	10	20	Alpine	Moist Below	Spencer Postman
D00007287	411145	6814499	8/9/2017			KZK	5	B	Brown	30		60	10		Alpine	Moist Below	Spencer Postman
D00007288	411148	6814596	8/9/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007289	411145	6814700	8/9/2017			KZK	10	B	Brown	20		60	10	10	Alpine	Moist Below	Spencer Postman
D00007290	410945	6815799	8/10/2017			KZK	10	B	Brown	40		20	10	30	Alpine	Moist Below	Spencer Postman
D00007291	410845	6815800	8/10/2017			KZK	10	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00007292	410746	6815800	8/10/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007293	410647	6815799	8/10/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007294	410544	6815799	8/10/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Spencer Postman
D00007295	410447	6815802	8/10/2017			KZK	10	B	Brown			70	10	20	Alpine	Moist Below	Spencer Postman
D00007296	410346	6815800	8/10/2017			KZK	20	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007297	410248	6815800	8/10/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007298	410144	6815797	8/10/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007299	410045	6815801	8/10/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007300			8/10/2017	BLANK		KZK											Spencer Postman
D00007301	409942	6815804	8/10/2017			KZK	5	B	Brown	40	10	40		10	Brush	Moist Below	Spencer Postman
D00007302	409841	6815796	8/10/2017			KZK	15	B	Brown	40		30	10	20	Brush	Moist Below	Spencer Postman
D00007303	409744	6815799	8/10/2017			KZK	10	B	Brown	20		70		10	Brush	Moist Below	Spencer Postman
D00007304	409646	6815799	8/10/2017			KZK	20	B	Brown	10		60	20	10	Brush	Moist Below	Spencer Postman

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D00007305	409543	6815798	8/10/2017			KZK	10	B	Brown	10		50	20	20	Brush	Moist Below	Spencer Postman
D00007306	409445	6815799	8/10/2017			KZK	15	B	Brown	10		50	20	20	Brush	Moist Below	Spencer Postman
D00007307	409345	6815800	8/10/2017			KZK	10	B	Brown	10		60	10	20	Brush	Moist Below	Spencer Postman
D00007308	409245	6815798	8/10/2017			KZK	5	B	Brown	10		60		30	Brush	Moist Below	Spencer Postman
D00007309	409146	6815804	8/10/2017			KZK	10	B	Brown	20		60		20	Brush	Moist Below	Spencer Postman
D00007310	409045	6815798	8/10/2017			KZK	25	B	Brown	10		50	20	20	Brush	Moist Below	Spencer Postman
D00007311	408943	6815799	8/10/2017			KZK	20	B	Brown	40		50		10	Swamp	Wet 15 cm	Spencer Postman
D00007312	408849	6815801	8/10/2017			KZK	20	B	Brown	50		40		10	Swamp	Wet 20 cm	Spencer Postman
D00007313	408745	6815800	8/10/2017			KZK	15	B	Brown	40		50		10	Brush	Moist Below	Spencer Postman
D00007314	408645	6815800	8/10/2017			KZK	10	B	Brown	20		40	10	30	Brush	Moist Below	Spencer Postman
D00007315	408642	6815400	8/10/2017			KZK	10	B	Brown	10		50	10	30	Brush	Moist Below	Spencer Postman
D00007316	408544	6815401	8/10/2017			KZK	10	B	Brown			70	10	20	Alpine	Moist Below	Spencer Postman
D00007317	408446	6815400	8/10/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007318	408342	6815401	8/10/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00007319	408247	6815401	8/10/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007320	408246	6815401	8/10/2017	DUP1	D00007319	KZK	15	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007321	408143	6815400	8/10/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Spencer Postman
D00007322	408045	6815407	8/10/2017			KZK	10	B	Brown	10		50	20	20	Alpine	Moist Below	Spencer Postman
D00007323	407947	6815400	8/10/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007324	407849	6815402	8/10/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007325	407745	6815400	8/10/2017			KZK	10	B	Brown	30		50	10	10	Alpine	Moist Below	Spencer Postman
D00007326	407745	6815500	8/10/2017			KZK	5	B	Brown	10		50	20	20	Alpine	Moist Below	Spencer Postman
D00007327	407746	6815602	8/10/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007328	407745	6815698	8/10/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Spencer Postman
D00007329	407742	6815798	8/10/2017			KZK	10	B	Brown	40		50		10	Alpine	Moist Below	Spencer Postman
D00007330	407746	6815900	8/10/2017			KZK	25	B	Brown	10	10	40		40	Brush	Moist Below	Spencer Postman
D00007331	407746	6816000	8/10/2017			KZK	10	B	Brown	20		60		20	Brush	Moist Below	Spencer Postman
D00007332	407743	6816098	8/10/2017			KZK	10	B	Brown	10		70		20	Brush	Moist Below	Spencer Postman
D00007333	407647	6816104	8/10/2017			KZK	30	B	Brown	50		40		10	Brush	Moist Below	Spencer Postman

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D00007334	407643	6816004	8/10/2017			KZK	35	B	Brown	50	10	30		10	Brush	Moist Below	Spencer Postman
D00007335	410644	6816100	8/11/2017			KZK	10	B	Brown	10	10	70		10	Alpine	Moist Below	Spencer Postman
D00007336	410546	6816099	8/11/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007337	410446	6816100	8/11/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007338	410345	6816099	8/11/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00007339	410245	6816099	8/11/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007340			8/11/2017	BLANK		KZK											Spencer Postman
D00007341	410146	6816097	8/11/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007342	410043	6816099	8/11/2017			KZK	5	B	Brown	10		80		10	Alpine	Moist Below	Spencer Postman
D00007343	409943	6816099	8/11/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007344	409846	6816101	8/11/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00007345	409746	6816101	8/11/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007346	409643	6816098	8/11/2017			KZK	5	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007347	409548	6816101	8/11/2017			KZK	10	B	Brown	10		70		20	Brush	Moist Below	Spencer Postman
D00007348	409446	6816103	8/11/2017			KZK	15	B	Brown	30		60		10	Brush	Moist Below	Spencer Postman
D00007349	409343	6816100	8/11/2017			KZK	15	B	Brown	10		40	20	30	Brush	Moist Below	Spencer Postman
D00007350	409246	6816099	8/11/2017			KZK	10	B	Orange	10		60	10	20	Brush	Moist Below	Spencer Postman
D00007351	409143	6816099	8/11/2017			KZK	10	B	Orange	10	10	60		20	Brush	Moist Below	Spencer Postman
D00007352	409043	6816099	8/11/2017			KZK	10	B	Brown	10		60	10	20	Brush	Moist Below	Spencer Postman
D00007353	408945	6816099	8/11/2017			KZK	10	B	Brown	10		70	10	10	Brush	Moist Below	Spencer Postman
D00007354	408844	6816099	8/11/2017			KZK	5	B	Brown	10		50		40	Brush	Moist Below	Spencer Postman
D00007355	408742	6816098	8/11/2017			KZK	20	B	Brown	10	10	60		20	Brush	Moist Below	Spencer Postman
D00007356	408647	6816103	8/11/2017			KZK	10	B	Brown	10	10	60		20	Brush	Moist Below	Spencer Postman
D00007357	408546	6816102	8/11/2017			KZK	10	B	Brown	20		60		20	Brush	Moist Below	Spencer Postman
D00007358	408446	6816101	8/11/2017			KZK	15	B	Brown	20		50		30	Brush	Moist Below	Spencer Postman
D00007359	408345	6816097	8/11/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007360	408246	6816100	8/11/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007361	408142	6816100	8/11/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007362	408044	6816101	8/11/2017			KZK	20	B	Brown	50		40		10	Alpine	Moist Below	Spencer Postman

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D00007363	407947	6816101	8/11/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007364	407945	6816201	8/11/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007365	407943	6816299	8/11/2017			KZK	15	B	Brown		10	70		20	Alpine	Moist Below	Spencer Postman
D00007366	408142	6816301	8/11/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007367	408245	6816298	8/11/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007368	408346	6816302	8/11/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007369	408447	6816299	8/11/2017			KZK	20	B	Brown		30	60		10	Alpine	Moist Below	Spencer Postman
D00007370	408548	6816300	8/11/2017			KZK	10	B	Brown	10	20	60		10	Alpine	Moist Below	Spencer Postman
D00007371	408645	6816305	8/11/2017			KZK	15	B	Brown	10	20	60		10	Alpine	Moist Below	Spencer Postman
D00007372	408848	6816299	8/11/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007373	408950	6816299	8/11/2017			KZK	15	B	Brown			60	10	30	Brush	Moist Below	Spencer Postman
D00007374	409041	6816299	8/11/2017			KZK	10	B	Brown		10	60	10	20	Brush	Moist Below	Spencer Postman
D00007375	409140	6816301	8/11/2017			KZK	10	B	Brown			60	20	20	Brush	Moist Below	Spencer Postman
D00007376	409245	6816297	8/11/2017			KZK	10	B	Brown	20		70		10	Brush	Moist Below	Spencer Postman
D00007377	409346	6816299	8/11/2017			KZK	20	B	Brown	40		50		10	Brush	Moist Below	Spencer Postman
D00007378	409444	6816298	8/11/2017			KZK	10	B	Brown	10	10	50		30	Alpine	Moist Below	Spencer Postman
D00007379	409547	6816300	8/11/2017			KZK	20	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007380	409548	6816300	8/11/2017	DUP1	D00007379	KZK	15	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00007381	409644	6816305	8/11/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007382	409743	6816298	8/11/2017			KZK	15	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007383	409842	6816298	8/11/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007384	410643	6812800	8/12/2017			KZK	5	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00007385	410744	6812797	8/12/2017			KZK	5	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007386	410847	6812899	8/12/2017			KZK	5	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007387	410948	6813002	8/12/2017			KZK	5	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00007388	411046	6813101	8/12/2017			KZK	5	B	Brown	10		30	20	40	Alpine	Moist Below	Spencer Postman
D00007389	411149	6813197	8/12/2017			KZK	5	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007390	411243	6813205	8/12/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007391	411046	6813199	8/12/2017			KZK	5	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007392	410947	6813199	8/12/2017			KZK	10	B	Brown	40		50		10	Alpine	Moist Below	Spencer Postman
D00007393	410848	6813200	8/12/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007394	410747	6813203	8/12/2017			KZK	5	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007395	410642	6813301	8/12/2017			KZK	5	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007396	410744	6813297	8/12/2017			KZK	5	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007397	410848	6813301	8/12/2017			KZK	5	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007398	410941	6813298	8/12/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007399	411040	6813300	8/12/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007400			8/12/2017	BLANK		KZK											Spencer Postman
D00007401	411047	6813399	8/12/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007402	411045	6813500	8/12/2017			KZK	5	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007403	410945	6813402	8/12/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007404	410845	6813399	8/12/2017			KZK	5	B	Brown	20	10	70			Alpine	Moist Below	Spencer Postman
D00007405	410846	6813501	8/12/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Spencer Postman
D00007406	410843	6813600	8/12/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007407	410845	6813698	8/12/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Spencer Postman
D00007408	410647	6813702	8/12/2017			KZK	10	B	Brown	20		50	10	20	Alpine	Moist Below	Spencer Postman
D00007409	410644	6813801	8/12/2017	DUP1	D00006972	KZK	5	B	Brown	10		50		40	Alpine	Moist Below	Spencer Postman
D00007410	410644	6813899	8/12/2017			KZK	10	B	Brown	10		70	10	10	Alpine	Moist Below	Spencer Postman
D00007411	410645	6814000	8/12/2017			KZK	10	B	Brown	10		70	20		Alpine	Moist Below	Spencer Postman
D00007412	410645	6814100	8/12/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007413	410643	6814198	8/12/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007414	410645	6814298	8/12/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007415	410646	6814398	8/12/2017	DUP1	D00006986	KZK	10	B	Brown	20	10	60		10	Alpine	Moist Below	Spencer Postman
D00007416	410742	6814400	8/12/2017	DUP1	D00006987	KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007417	410843	6814403	8/12/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman
D00007418	410845	6814498	8/12/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007419	410846	6814599	8/12/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007420	410844	6814600	8/12/2017	DUP1	D00007419	KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007421	410848	6814701	8/12/2017			KZK	15	B	Brown	10		60	10	20	Alpine	Moist Below	Spencer Postman
D00007422	410846	6814806	8/12/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007423	410847	6814903	8/12/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007424	410848	6815003	8/12/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007425	408745	6815200	8/13/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007426	408744	6815104	8/13/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007427	408645	6815198	8/13/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007428	408545	6815198	8/13/2017			KZK	15	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007429	408641	6815099	8/13/2017			KZK	5	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007430	408742	6815001	8/13/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007431	408745	6814904	8/13/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007432	408646	6815000	8/13/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007433	408541	6815098	8/13/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007434	408449	6815201	8/13/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007435	408346	6815202	8/13/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007436	408444	6815103	8/13/2017			KZK	5	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007437	408545	6815004	8/13/2017			KZK	5	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00007438	408650	6814900	8/13/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00007439	408747	6814800	8/13/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007440	408748	6814799	8/13/2017	DUP1	D00007439	KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007441	408738	6814707	8/13/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007442	408644	6814802	8/13/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00007443	408545	6814892	8/13/2017			KZK	5	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007444	408448	6814999	8/13/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007445	408342	6815098	8/13/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007446	408244	6815197	8/13/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Spencer Postman
D00007447	408243	6815104	8/13/2017			KZK	10	B	Brown	30		50		20	Brush	Moist Below	Spencer Postman
D00007448	408147	6815202	8/13/2017			KZK	5	B	Brown	30		50		20	Brush	Moist Below	Spencer Postman
D00007449	408144	6815106	8/13/2017			KZK	5	B	Brown	40		40		20	Brush	Moist Below	Spencer Postman

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D00007450	408045	6815200	8/13/2017			KZK	5	B	Brown	20		60		20	Brush	Moist Below	Spencer Postman
D00007451	408040	6815105	8/13/2017			KZK	5	B	Brown	40		40		20	Brush	Moist Below	Spencer Postman
D00007452	407944	6815196	8/13/2017			KZK	5	B	Brown	40		40		20	Brush	Moist Below	Spencer Postman
D00007453	407940	6815098	8/13/2017			KZK	5	B	Brown	20		40		40	Brush	Moist Below	Spencer Postman
D00007454	407839	6815195	8/13/2017			KZK	5	B	Brown	40		30		30	Brush	Moist Below	Spencer Postman
D00007455	407840	6815103	8/13/2017			KZK	5	B	Brown	40		60			Brush	Moist Below	Spencer Postman
D00007456	407751	6815199	8/13/2017			KZK	10	B	Brown	40		40		20	Brush	Moist Below	Spencer Postman
D00007457	407644	6815197	8/13/2017			KZK	10	B	Brown	20		70		10	Brush	Moist Below	Spencer Postman
D00007458	407629	6815101	8/13/2017			KZK	10	B	Grey	10	10	60		20	Brush	Moist Below	Spencer Postman
D00007459	407647	6815001	8/13/2017			KZK	10	B	Orange	20	10	50		20	Brush	Moist Below	Spencer Postman
D00007460	407650	6814999	8/13/2017	DUP1	D00007459	KZK	10	B	Orange	20	10	50		20	Brush	Moist Below	Spencer Postman
D00007461	407646	6814903	8/13/2017			KZK	10	B	Brown	20		60		20	Brush	Moist Below	Spencer Postman
D00007462	409549	6814600	8/14/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007463	409546	6814698	8/14/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Spencer Postman
D00007464	409441	6814800	8/14/2017			KZK	20	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007465	409346	6814897	8/14/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007466	409247	6814998	8/14/2017			KZK	10	B	Brown	20		60	10	10	Alpine	Moist Below	Spencer Postman
D00007467	409142	6815099	8/14/2017			KZK	5	B	Brown	20		70	10		Alpine	Moist Below	Spencer Postman
D00007468	409047	6815201	8/14/2017			KZK	5	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007469	409141	6815201	8/14/2017			KZK	10	B	Brown	40		50		10	Alpine	Moist Below	Spencer Postman
D00007470	409246	6815094	8/14/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007471	409342	6815003	8/14/2017			KZK	5	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007472	409442	6814898	8/14/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007473	409536	6814800	8/14/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007474	409544	6814901	8/14/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007475	409443	6814999	8/14/2017			KZK	5	B	Brown	40		50		10	Alpine	Moist Below	Spencer Postman
D00007476	409348	6815102	8/14/2017			KZK	10	B	Brown	20		50	20	10	Alpine	Moist Below	Spencer Postman
D00007477	409247	6815200	8/14/2017			KZK	15	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007478	409346	6815198	8/14/2017			KZK	20	B	Brown	40		50		10	Alpine	Moist Below	Spencer Postman

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007479	409443	6815105	8/14/2017			KZK	15	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007480	409444	6815108	8/14/2017	DUP1	D00007479	KZK	15	B	Brown	20		70		10	Alpine	Moist Below	Spencer Postman
D00007481	409542	6814998	8/14/2017			KZK	20	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00007482	409547	6815099	8/14/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Spencer Postman
D00007483	409446	6815204	8/14/2017			KZK	10	B	Brown	10		50		40	Alpine	Moist Below	Spencer Postman
D00007484	409574	6815206	8/14/2017			KZK	20	B	Brown	20	10	60		10	Alpine	Moist Below	Spencer Postman
D00007485	409644	6815199	8/14/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Spencer Postman
D00007486	409745	6815199	8/14/2017			KZK	20	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007487	409845	6815196	8/14/2017			KZK	10	B	Brown	20	10	70			Alpine	Moist Below	Spencer Postman
D00007488	409942	6815198	8/14/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007489	410044	6815199	8/14/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007490	410140	6815203	8/14/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007491	410242	6815199	8/14/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Spencer Postman
D00007492	410346	6815199	8/14/2017			KZK	10	B	Brown			40	20	40	Alpine	Moist Below	Spencer Postman
D00007493	410441	6815200	8/14/2017			KZK	10	B	Brown	30		40	10	20	Alpine	Moist Below	Spencer Postman
D00007494	410539	6815202	8/14/2017			KZK	10	B	Brown	30		40		30	Alpine	Moist Below	Spencer Postman
D00007495	410644	6815195	8/14/2017			KZK	10	B	Brown	30		60		10	Alpine	Moist Below	Spencer Postman
D00007496	410744	6815191	8/14/2017			KZK	10	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007497	410841	6815208	8/14/2017			KZK	10	B	Brown	40		40		20	Alpine	Moist Below	Spencer Postman
D00007498	410946	6815196	8/14/2017			KZK	15	B	Brown	30		30		40	Brush	Moist Below	Spencer Postman
D00007499	410939	6815095	8/14/2017			KZK	10	B	Brown	40		30		30	Brush	Moist Below	Spencer Postman
D00007500	410940	6815095	8/14/2017	DUP1	D00007499	KZK	10	B	Brown	30		40		30	Brush	Moist Below	Spencer Postman
D00007501	407642	6813100	7/26/2017			KZK	25	B	Brown		10	70		20	Alpine	Moist Below	Matt Brickenden
D00007502	407644	6813201	7/26/2017			KZK	22	B	Brown		20	70		10	Alpine	Wet 1cm	Matt Brickenden
D00007503	407643	6813304	7/26/2017			KZK	25	B	Brown		20	70		10	Alpine	Moist Below	Matt Brickenden
D00007504	407645	6813402	7/26/2017			KZK	25	B	Brown		20	70		10	Alpine	Moist Below	Matt Brickenden
D00007505	407643	6813502	7/26/2017			KZK	30	B	Brown		20	70		10	Alpine	Moist Below	Matt Brickenden
D00007506	407645	6813603	7/26/2017			KZK	20	B	Brown		20	70		10	Alpine	Moist Below	Matt Brickenden
D00007507	407644	6813701	7/26/2017			KZK	30	B	Brown		20	70		10	Alpine	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007508	407644	6813800	7/26/2017			KZK	25	B	Brown		15	70		15	Alpine	Moist Below	Matt Brickenden
D00007509	407644	6813901	7/26/2017			KZK	30	B	Brown		10	70		20	Alpine	Moist Below	Matt Brickenden
D00007510	407643	6813999	7/26/2017			KZK	25	B	Brown		5	60		35	Alpine	Moist Below	Matt Brickenden
D00007511	407642	6814101	7/26/2017			KZK	28	B	Brown			50		50	Alpine	Moist Below	Matt Brickenden
D00007512	407642	6814198	7/26/2017			KZK	25	B	Brown			50		50	Alpine	Moist Below	Matt Brickenden
D00007513	407644	6814299	7/26/2017			KZK	22	B	Brown		5	55		40	Alpine	Moist Below	Matt Brickenden
D00007514	407643	6814398	7/26/2017			KZK	25	B	Brown		40	40		20	Alpine	Wet 3cm	Matt Brickenden
D00007515	407646	6814500	7/26/2017			KZK	25	B	Brown		30	55		15	Alpine	Moist Below	Matt Brickenden
D00007516	407745	6814402	7/26/2017			KZK	28	B	Brown		10	60		30	Alpine	Moist Below	Matt Brickenden
D00007517	407944	6814200	7/26/2017			KZK	25	B	Brown		60	30		10	Alpine	Moist Below	Matt Brickenden
D00007518	407943	6814102	7/26/2017			KZK	25	B	Brown		25	65		10	Alpine	Moist Below	Matt Brickenden
D00007519	407944	6814001	7/26/2017			KZK	25	B	Brown		20	70		10	Alpine	Moist Below	Matt Brickenden
D00007520	407946	6813902	7/26/2017			KZK	25	B	Brown		25	65		10	Alpine	Moist Below	Matt Brickenden
D00007521	407945	6813803	7/26/2017			KZK	20	B	Brown		25	65		10	Alpine	Moist Below	Matt Brickenden
D00007522	407944	6813702	7/26/2017			KZK	20	B	Brown		15	75		10	Alpine	Moist Below	Matt Brickenden
D00007523	407944	6813602	7/26/2017			KZK	20	B	Brown		25	65		10	Alpine	Moist Below	Matt Brickenden
D00007524	407945	6813500	7/26/2017			KZK	25	B	Brown		30	35		35	Alpine	Wet 1cm	Matt Brickenden
D00007525	407945	6813401	7/26/2017			KZK	25	B	Brown		10	45		45	Alpine	Moist Below	Matt Brickenden
D00007526	407945	6813302	7/26/2017			KZK	25	B	Brown		10	65		25	Alpine	Moist Below	Matt Brickenden
D00007527	407941	6813203	7/26/2017			KZK	25	B	Brown		30	65		5	Alpine	Moist Below	Matt Brickenden
D00007528	408144	6813101	7/27/2017			KZK	20	B	Brown			65		35	Alpine	Wet 2cm	Matt Brickenden
D00007529	408144	6813199	7/27/2017			KZK	20	B	Brown		20	65		15	Alpine	Wet 5cm	Matt Brickenden
D00007530	408144	6813302	7/27/2017			KZK	20	B	Brown		5	75		20	Alpine	Wet 20cm	Matt Brickenden
D00007531	408143	6813402	7/27/2017			KZK	25	B	Brown			60		40	Alpine	Wet 3cm	Matt Brickenden
D00007532	408144	6813501	7/27/2017			KZK	20	B	Grey			70		30	Alpine	Moist Below	Matt Brickenden
D00007533	408143	6813601	7/27/2017			KZK	20	B	Brown			70		30	Alpine	Wet 3cm	Matt Brickenden
D00007534	408144	6813700	7/27/2017			KZK	20	B	Brown			65		35	Alpine	Moist Below	Matt Brickenden
D00007535	408144	6813801	7/27/2017			KZK	25	B	Brown			75	10	15	Alpine	Moist Below	Matt Brickenden
D00007536	408144	6813901	7/27/2017			KZK	25	B	Brown			85	10	5	Alpine	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007537	408145	6813998	7/27/2017			KZK	25	B	Brown			70		30	Alpine	Moist Below	Matt Brickenden
D00007538	408147	6814099	7/27/2017			KZK	20	B	Brown			30		70	Alpine	Moist Below	Matt Brickenden
D00007539	408345	6813801	7/27/2017			KZK	20	B	Brown			90		10	Alpine	Moist Below	Matt Brickenden
D00007540	408345	6813800	7/27/2017	DUP1	D00007539	KZK	20	B	Brown			90		10	Alpine	Moist Below	Matt Brickenden
D00007541	408344	6813702	7/27/2017			KZK	20	B	Brown			60	25	15	Alpine	Moist Below	Matt Brickenden
D00007542	408344	6813602	7/27/2017			KZK	20	B	Brown			85		15	Alpine	Moist Below	Matt Brickenden
D00007543	408344	6813502	7/27/2017			KZK	20	B	Brown			85		15	Alpine	Moist Below	Matt Brickenden
D00007544	408346	6813404	7/27/2017			KZK	20	B	Brown			70		30	Alpine	Moist Below	Matt Brickenden
D00007545	408345	6813303	7/28/2017			KZK	20	B	Brown			65	20	15	Alpine	Wet 15cm	Matt Brickenden
D00007546	408344	6813202	7/28/2017			KZK	20	B	Brown			55	30	15	Alpine	Wed 15cm	Matt Brickenden
D00007547	408345	6813103	7/28/2017			KZK	15	B	Brown			60	10	30	Alpine	Moist Below	Matt Brickenden
D00007548	408544	6813101	7/28/2017			KZK	15	B	Brown			70	20	10	Alpine	Moist Below	Matt Brickenden
D00007549	408543	6813201	7/28/2017			KZK	20	B	Brown			30	30	40	Alpine	Moist Below	Matt Brickenden
D00007550	408544	6813301	7/28/2017			KZK	15	B	Brown			40	20	40	Alpine	Moist Below	Matt Brickenden
D00007551	408545	6813400	7/28/2017			KZK	15	B	Brown			50	20	30	Alpine	Moist Below	Matt Brickenden
D00007552	408545	6813500	7/28/2017			KZK	15	B	Brown			50	20	30	Alpine	Moist Below	Matt Brickenden
D00007553	408544	6813601	7/28/2017			KZK	15	B	Brown			50	20	30	Alpine	Moist Below	Matt Brickenden
D00007554	408445	6813701	7/28/2017			KZK	15	B	Brown			50	20	30	Alpine	Moist Below	Matt Brickenden
D00007555	408744	6813302	7/28/2017			KZK	15	B	Brown			50	20	30	Alpine	Moist Below	Matt Brickenden
D00007556	408745	6813202	7/28/2017			KZK	15	B	Brown			50	20	30	Alpine	Moist Below	Matt Brickenden
D00007557	408745	6813102	7/28/2017			KZK	15	B	Brown			40	20	40	Alpine	Moist Below	Matt Brickenden
D00007558	408843	6813102	7/28/2017			KZK	15	B	Brown			55	20	25	Alpine	Moist Below	Matt Brickenden
D00007559	408844	6813200	7/28/2017			KZK	15	B	Brown			50	25	25	Alpine	Moist Below	Matt Brickenden
D00007560			7/28/2017	BLANK		KZK											Matt Brickenden
D00007561	408945	6813114	7/28/2017			KZK	15	B	Brown			40	10	50	Alpine	Moist Below	Matt Brickenden
D00007562	409155	6813105	7/28/2017			KZK	15	B	Brown				30	70	Alpine	Moist Below	Matt Brickenden
D00007563	409246	6813105	7/28/2017			KZK	15	B	Brown			80	20		Alpine	Moist Below	Matt Brickenden
D00007564	409345	6813099	7/28/2017			KZK	15	B	Brown	20		80			Alpine	Moist Below	Matt Brickenden
D00007565	409445	6813101	7/28/2017			KZK	15	B	Brown	10		80		10	Alpine	Moist Below	Matt Brickenden

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D00007566	409544	6813100	7/28/2017			KZK	20	B	Brown	10		50	10	30	Alpine	Moist Below	Matt Brickenden
D00007567	409643	6813100	7/28/2017			KZK	20	B	Brown			50	20	30	Alpine	Moist Below	Matt Brickenden
D00007568	409744	6813100	7/28/2017			KZK	20	B	Brown			50	10	40	Alpine	Moist Below	Matt Brickenden
D00007569	409842	6813104	7/28/2017			KZK	20	B	Brown			50	30	20	Alpine	Moist Below	Matt Brickenden
D00007570	409844	6813001	7/28/2017			KZK	25	B	Brown			60	20	20	Alpine	Moist Below	Matt Brickenden
D00007571	409945	6813001	7/28/2017			KZK	15	B	Brown			40	20	40	Alpine	Moist Below	Matt Brickenden
D00007572	409945	6813101	7/28/2017			KZK	15	B	Brown			40	20	40	Alpine	Moist Below	Matt Brickenden
D00007573	410044	6813300	7/28/2017			KZK	15	B	Brown			60	30	10	Alpine	Moist Below	Matt Brickenden
D00007574	410046	6813201	7/29/2017			KZK	20	B	Brown			60	30	10	Alpine	Moist Below	Matt Brickenden
D00007575	409938	6813292	7/29/2017			KZK	15	B	Brown			30	20	50	Alpine	Moist Below	Matt Brickenden
D00007576	409843	6813301	7/29/2017			KZK	15	B	Brown	10		80		10	Alpine	Wet 3cm	Matt Brickenden
D00007577	409744	6813300	7/29/2017			KZK	15	B	Brown	15	10	55	15	5	Alpine	Moist Below	Matt Brickenden
D00007578	409645	6813300	7/29/2017			KZK	20	B	Brown	10		80		10	Alpine	Moist Below	Matt Brickenden
D00007579	409544	6813301	7/29/2017			KZK	15	B	Brown	20		60	20		Alpine	Moist Below	Matt Brickenden
D00007580	409541	6813304	7/29/2017	DUP1	D00007579	KZK	15	B	Brown	20		60	20		Alpine	Moist Below	Matt Brickenden
D00007581	409445	6813302	7/29/2017			KZK	15	B	Brown	20		60	20		Alpine	Moist Below	Matt Brickenden
D00007582	409341	6813301	7/29/2017			KZK	15	B	Brown	25		50	25		Alpine	Moist Below	Matt Brickenden
D00007583	409243	6813301	7/29/2017			KZK	15	B	Brown	25		50	25		Alpine	Moist Below	Matt Brickenden
D00007584	409144	6813300	7/29/2017			KZK	15	B	Brown			70	25	5	Alpine	Moist Below	Matt Brickenden
D00007585	409045	6813497	7/29/2017			KZK	15	B	Brown	10		70	20		Alpine	Moist Below	Matt Brickenden
D00007586	409144	6813503	7/29/2017			KZK	20	B	Brown			50	15	35	Alpine	Moist Below	Matt Brickenden
D00007587	409243	6813499	7/29/2017			KZK	10	B	Brown			80	20		Alpine	Moist Below	Matt Brickenden
D00007588	409345	6813500	7/29/2017			KZK	15	B	Brown			80	10	10	Alpine	Moist Below	Matt Brickenden
D00007589	409444	6813500	7/29/2017			KZK	10	B	Brown			50	10	40	Alpine	Moist Below	Matt Brickenden
D00007590	409542	6813502	7/29/2017			KZK	15	B	Brown	10		65	25		Alpine	Wet 10cm	Matt Brickenden
D00007591	409643	6813503	7/29/2017			KZK	15	B	Brown	15	15	55	15		Alpine	Wet 15cm	Matt Brickenden
D00007592	409744	6813502	7/29/2017			KZK	15	B	Brown	10		75	15		Alpine	Moist Below	Matt Brickenden
D00007593	409843	6813501	7/29/2017			KZK	10	B	Brown	10	10	65	15		Alpine	Wet 5cm	Matt Brickenden
D00007594	409946	6813501	7/29/2017			KZK	10	B	Brown	10		80		10	Alpine	Moist Below	Matt Brickenden

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D00007595	409946	6813600	7/29/2017			KZK	10	B	Brown			80	10	10	Alpine	Moist Below	Matt Brickenden
D00007596	409944	6813700	7/29/2017			KZK	15	B	Brown	10		80	10		Alpine	Moist Below	Matt Brickenden
D00007597	409944	6813800	7/29/2017			KZK	15	B	Brown	10		40	10	40	Alpine	Moist Below	Matt Brickenden
D00007598	409944	6813901	7/29/2017			KZK	15	B	Brown	10		80	10		Alpine	Moist Below	Matt Brickenden
D00007599	409944	6813999	7/29/2017			KZK	10	B	Brown	10		80	10		Alpine	Moist Below	Matt Brickenden
D00007600			7/29/2017	BLANK		KZK											Matt Brickenden
D00007601	409942	6814100	7/29/2017			KZK	10	B	Brown			60	15	25	Alpine	Moist Below	Matt Brickenden
D00007602	409945	6814200	7/29/2017			KZK	10	B	Brown			60	15	25	Alpine	Moist Below	Matt Brickenden
D00007603	409844	6814300	7/29/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007604	409844	6814202	7/29/2017			KZK	10	B	Brown	10		40	30	20	Alpine	Moist Below	Matt Brickenden
D00007605	409844	6814101	7/29/2017			KZK	10	B	Brown	10		40	20	30	Alpine	Moist Below	Matt Brickenden
D00007606	409847	6813995	7/29/2017			KZK	10	B	Brown	10		40	20	30	Alpine	Moist Below	Matt Brickenden
D00007607	409845	6813701	7/30/2017			KZK	15	B	Brown	5		55	10	30	Alpine	Moist Below	Matt Brickenden
D00007608	409845	6813802	7/30/2017			KZK	15	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007609	409842	6813901	7/30/2017			KZK	15	B	Brown	20		50	10	20	Alpine	Moist Below	Matt Brickenden
D00007610	409744	6813907	7/30/2017			KZK	10	B	Brown	20		55	10	15	Alpine	Moist Below	Matt Brickenden
D00007611	409744	6814003	7/30/2017			KZK	15	B	Brown	20		45	10	25	Alpine	Moist Below	Matt Brickenden
D00007612	409743	6814104	7/30/2017			KZK	15	B	Brown	20		55	5	20	Alpine	Moist Below	Matt Brickenden
D00007613	409744	6814201	7/30/2017			KZK	15	B	Brown	30		60		10	Alpine	Wet 1cm	Matt Brickenden
D00007614	409750	6814300	7/30/2017			KZK	10	B	Brown	5		65	5	25	Alpine	Moist Below	Matt Brickenden
D00007615	409746	6814402	7/30/2017			KZK	15	B	Brown	10		70	10	10	Alpine	Moist Below	Matt Brickenden
D00007616	409644	6814495	7/30/2017			KZK	15	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007617	409643	6814401	7/30/2017			KZK	15	B	Brown			70	10	20	Alpine	Moist Below	Matt Brickenden
D00007618	409649	6814299	7/30/2017			KZK	15	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007619	409645	6814201	7/30/2017			KZK	20	B	Brown	10		70	10	10	Alpine	Moist Below	Matt Brickenden
D00007620	409641	6814103	7/30/2017			KZK	20	B	Brown	10		80	10		Alpine	Moist Below	Matt Brickenden
D00007621	409647	6814000	7/30/2017			KZK	20	B	Brown			85	5	10	Alpine	Moist Below	Matt Brickenden
D00007622	409650	6813897	7/30/2017			KZK	15	B	Brown			70	5	25	Alpine	Moist Below	Matt Brickenden
D00007623	409545	6813901	7/30/2017			KZK	15	B	Brown			80	10	10	Alpine	Moist Below	Matt Brickenden

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D00007624	409443	6813902	7/30/2017			KZK	15	B	Brown			80	10	10	Alpine	Moist Below	Matt Brickenden
D00007625	409445	6814000	7/30/2017			KZK	15	B	Brown	20		60	10	10	Alpine	Moist Below	Matt Brickenden
D00007626	409543	6814003	7/30/2017			KZK	15	B	Brown			80		20	Alpine	Moist Below	Matt Brickenden
D00007627	409545	6814101	7/30/2017			KZK	10	B	Brown			65	10	25	Alpine	Moist Below	Matt Brickenden
D00007628	409544	6814200	7/30/2017			KZK	15	B	Brown	15		65		20	Alpine	Moist Below	Matt Brickenden
D00007629	409543	6814299	7/30/2017			KZK	30	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007630	409546	6814401	7/30/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Matt Brickenden
D00007631	409544	6814500	7/30/2017			KZK	10	B	Brown		10	60		30	Alpine	Moist Below	Matt Brickenden
D00007632	409442	6814602	7/30/2017			KZK	10	B	Brown	5		80		15	Alpine	Moist Below	Matt Brickenden
D00007633	409446	6814501	7/30/2017			KZK	5	B	Brown	15		70		15	Alpine	Moist Below	Matt Brickenden
D00007634	409445	6814401	7/30/2017			KZK	10	B	Brown	5		65	10	20	Alpine	Moist Below	Matt Brickenden
D00007635	409445	6814300	7/30/2017			KZK	15	B	Brown	10		65	10	15	Alpine	Moist Below	Matt Brickenden
D00007636	409444	6814202	7/30/2017			KZK	10	B	Brown	10		80		10	Alpine	Moist Below	Matt Brickenden
D00007637	409443	6814101	7/30/2017			KZK	10	B	Brown	10		70	5	15	Alpine	Moist Below	Matt Brickenden
D00007638	409346	6814100	7/30/2017			KZK	10	B	Brown	5	10	60		25	Alpine	Moist Below	Matt Brickenden
D00007639	409245	6814102	7/30/2017			KZK	10	B	Brown	25		50	15	10	Alpine	Wet 10cm	Matt Brickenden
D00007640	409248	6814101	7/30/2017	DUP1	D00007639	KZK	10	B	Brown	25		50	15	10	Alpine	Wet 10cm	Matt Brickenden
D00007641	409144	6814101	7/30/2017			KZK	15	B	Brown	20		60		20	Alpine	Wet 10cm	Matt Brickenden
D00007642	409044	6814102	7/30/2017			KZK	15	B	Brown	15		60		25	Alpine	Wet 10cm	Matt Brickenden
D00007643	409144	6814203	7/31/2017			KZK	15	B	Brown	10		75		15	Alpine	Moist Below	Matt Brickenden
D00007644	409245	6814201	7/31/2017			KZK	15	B	Brown	20		60	10	10	Alpine	Moist Below	Matt Brickenden
D00007645	409344	6814200	7/31/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007646	409348	6814296	7/31/2017			KZK	10	B	Brown	15		70	10	5	Alpine	Moist Below	Matt Brickenden
D00007647	409344	6814400	7/31/2017			KZK	15	B	Brown	15		60	10	15	Alpine	Moist Below	Matt Brickenden
D00007648	409345	6814499	7/31/2017			KZK	5	B	Brown	5		70		25	Alpine	Moist Below	Matt Brickenden
D00007649	409344	6814601	7/31/2017			KZK	10	B	Brown	10		65	5	20	Alpine	Moist Below	Matt Brickenden
D00007650	409341	6814696	7/31/2017			KZK	1	B	Brown	10	10	60		20	Alpine	Moist Below	Matt Brickenden
D00007651	409238	6814809	7/31/2017			KZK	5	B	Brown	10		60	5	25	Alpine	Moist Below	Matt Brickenden
D00007652	409244	6814700	7/31/2017			KZK	10	B	Brown	10	10	65	5	10	Alpine	Moist Below	Matt Brickenden

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D00007653	409241	6814588	7/31/2017			KZK	5	B	Brown		5	65		30	Alpine	Moist Below	Matt Brickenden
D00007654	409246	6814502	7/31/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007655	409243	6814404	7/31/2017			KZK	5	B	Brown	10	5	65		20	Alpine	Moist Below	Matt Brickenden
D00007656	409248	6814300	7/31/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007657	409145	6814401	7/31/2017			KZK	10	B	Brown	20		65	5	10	Alpine	Moist Below	Matt Brickenden
D00007658	409044	6814401	7/31/2017			KZK	10	B	Brown	20		75		5	Alpine	Moist Below	Matt Brickenden
D00007659	408942	6814401	7/31/2017			KZK	15	B	Brown	15		55	10	20	Alpine	Moist Below	Matt Brickenden
D00007660	408941	6814401	7/31/2017	DUP1	D00007659	KZK	15	B	Brown	15		55	10	20	Alpine	Moist Below	Matt Brickenden
D00007661	408847	6814403	7/31/2017			KZK	15	B	Brown	25		75			Alpine	Moist Below	Matt Brickenden
D00007662	408750	6814398	7/31/2017			KZK	10	B	Brown	15		60	10	15	Alpine	Wet 10cm	Matt Brickenden
D00007663	408644	6814400	7/31/2017			KZK	20	B	Brown	30	10	55	5		Alpine	Wet 20cm	Matt Brickenden
D00007664	408542	6814402	7/31/2017			KZK	30	B	Brown		5	65	10	20	Alpine	Wet 30cm	Matt Brickenden
D00007665	413648	6815901	8/1/2017			KZK	10	B	Brown	15		60		25	Alpine	Moist Below	Matt Brickenden
D00007666	413647	6815802	8/1/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007667	413648	6815701	8/1/2017			KZK	10	B	Brown	10	10	60		20	Alpine	Moist Below	Matt Brickenden
D00007668	413647	6815602	8/1/2017			KZK	10	B	Brown	15	10	55		20	Alpine	Moist Below	Matt Brickenden
D00007669	413649	6815500	8/1/2017			KZK	15	B	Brown	20		70		10	Alpine	Moist Below	Matt Brickenden
D00007670	413648	6815400	8/1/2017			KZK	15	B	Brown	15		60	5	20	Alpine	Moist Below	Matt Brickenden
D00007671	413648	6815303	8/1/2017			KZK	15	B	Brown	15	10	55	10	10	Alpine	Moist Below	Matt Brickenden
D00007672	413647	6815201	8/1/2017			KZK	15	B	Brown	10	5	65		20	Alpine	Moist Below	Matt Brickenden
D00007673	413648	6815104	8/1/2017			KZK	5	B	Brown		5	75		20	Alpine	Moist Below	Matt Brickenden
D00007674	413647	6815002	8/1/2017			KZK	10	B	Brown	10	5	60		25	Alpine	Moist Below	Matt Brickenden
D00007675	413647	6814902	8/1/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Matt Brickenden
D00007676	413648	6814800	8/1/2017			KZK	10	B	Brown	20	10	50		20	Alpine	Moist Below	Matt Brickenden
D00007677	413649	6814705	8/1/2017			KZK	5	B	Brown	10	10	75	5		Alpine	Moist Below	Matt Brickenden
D00007678	413646	6814600	8/1/2017			KZK	10	B	Brown		5	75		20	Alpine	Moist Below	Matt Brickenden
D00007679	413647	6814501	8/1/2017			KZK	10	B	Brown	10		55	5	30	Alpine	Moist Below	Matt Brickenden
D00007680			8/1/2017	BLANK		KZK											Matt Brickenden
D00007681	413647	6814401	8/1/2017			KZK	10	B	Brown	10	5	65		20	Alpine	Moist Below	Matt Brickenden

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D00007682	413645	6814304	8/1/2017			KZK	5	B	Brown	20		55	5	20	Alpine	Moist Below	Matt Brickenden
D00007683	413646	6814206	8/1/2017			KZK	10	B	Brown	25		55	10	10	Brush	Moist Below	Matt Brickenden
D00007684	413646	6814100	8/1/2017			KZK	10	B	Brown	20	5	65		10	Alpine	Moist Below	Matt Brickenden
D00007685	413649	6813999	8/1/2017			KZK	10	B	Brown	20	10	60		10	Alpine	Moist Below	Matt Brickenden
D00007686	413650	6813896	8/1/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Matt Brickenden
D00007687	413646	6813803	8/1/2017			KZK	10	B	Brown	25		55		20	Alpine	Moist Below	Matt Brickenden
D00007688	413640	6813722	8/1/2017			KZK	5	B	Brown		10	65		25	Alpine	Moist Below	Matt Brickenden
D00007689	413650	6813598	8/1/2017			KZK	5	B	Orange	25	15	40		20	Alpine	Moist Below	Matt Brickenden
D00007690	413648	6813502	8/1/2017			KZK	10	B	Orange	10	10	70		10	Alpine	Moist Below	Matt Brickenden
D00007691	413648	6813401	8/1/2017			KZK	20	B	Brown	30		70			Alpine	Moist Below	Matt Brickenden
D00007692	413646	6813301	8/1/2017			KZK	10	B	Brown	25	10	65			Alpine	Moist Below	Matt Brickenden
D00007693	413647	6813201	8/1/2017			KZK	10	B	Brown	10	10	60		20	Alpine	Moist Below	Matt Brickenden
D00007694	413547	6813101	8/1/2017			KZK	10	B	Brown	10	10	60		20	Alpine	Moist Below	Matt Brickenden
D00007695	413544	6813200	8/1/2017			KZK	10	B	Brown	25	5	50		20	Alpine	Moist Below	Matt Brickenden
D00007696	413546	6813302	8/1/2017			KZK	15	B	Brown	25		50		25	Alpine	Moist Below	Matt Brickenden
D00007697	413546	6813399	8/1/2017			KZK	10	B	Brown	25		65		10	Alpine	Moist Below	Matt Brickenden
D00007698	413546	6813498	8/1/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007699	413546	6813596	8/1/2017			KZK	10	B	Brown	15	10	50		25	Alpine	Moist Below	Matt Brickenden
D00007700	413547	6813596	8/1/2017	DUP1	D00007699	KZK	10	B	Brown	15	10	50		25	Alpine	Moist Below	Matt Brickenden
D00007701	413548	6813703	8/1/2017			KZK	5	B	Brown	10	5	65		20	Alpine	Moist Below	Matt Brickenden
D00007702	413542	6813797	8/1/2017			KZK	10	B	Brown	20		65		15	Alpine	Moist Below	Matt Brickenden
D00007703	413546	6813902	8/1/2017			KZK	10	B	Brown	20	10	45		25	Alpine	Moist Below	Matt Brickenden
D00007704	413548	6813999	8/1/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007705	413546	6814099	8/1/2017			KZK	10	B	Brown	30		65	5		Alpine	Moist Below	Matt Brickenden
D00007706	413550	6814200	8/1/2017			KZK	10	B	Brown	25		50		25	Alpine	Moist Below	Matt Brickenden
D00007707	413546	6814299	8/1/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Matt Brickenden
D00007708	413547	6814401	8/1/2017			KZK	15	B	Brown	20		50		30	Alpine	Moist Below	Matt Brickenden
D00007709	413548	6814500	8/1/2017			KZK	10	B	Brown	30	10	50		10	Alpine	Moist Below	Matt Brickenden
D00007710	413546	6814601	8/1/2017			KZK	15	B	Brown	20		60		20	Alpine	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007711	413547	6814701	8/1/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Matt Brickenden
D00007712	413547	6814801	8/1/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007713	413546	6814899	8/1/2017			KZK	10	B	Brown	20	10	40		30	Alpine	Moist Below	Matt Brickenden
D00007714	413546	6815002	8/1/2017			KZK	10	B	Brown	40		40		20	Alpine	Wet 5cm	Matt Brickenden
D00007715	413544	6815098	8/1/2017			KZK	15	B	Brown	30		60		10	Alpine	Moist Below	Matt Brickenden
D00007716	413547	6815199	8/1/2017			KZK	10	B	Brown			70	10	20	Alpine	Moist Below	Matt Brickenden
D00007717	413545	6815301	8/1/2017			KZK	10	B	Brown		5	70	10	15	Alpine	Moist Below	Matt Brickenden
D00007718	413545	6815402	8/1/2017			KZK	15	B	Brown	25		45		30	Alpine	Moist Below	Matt Brickenden
D00007719	413546	6815502	8/1/2017			KZK	10	B	Brown	20		55		25	Alpine	Moist Below	Matt Brickenden
D00007720			8/1/2017	BLANK		KZK											Matt Brickenden
D00007721	413545	6815600	8/1/2017			KZK	10	B	Brown	10	5	65		20	Alpine	Moist Below	Matt Brickenden
D00007722	413550	6815702	8/1/2017			KZK	10	B	Brown	10		50		40	Alpine	Moist Below	Matt Brickenden
D00007723	413547	6815801	8/1/2017			KZK	15	B	Brown	30	5	45		20	Alpine	Wet 2cm	Matt Brickenden
D00007724	413546	6815898	8/1/2017			KZK	15	B	Brown	30		50		20	Alpine	Moist Below	Matt Brickenden
D00007725	413345	6815899	8/1/2017			KZK	15	B	Brown	20	5	50		25	Alpine	Wet 1cm	Matt Brickenden
D00007726	413143	6815901	8/2/2017			KZK	15	B	Brown	25		60		15	Alpine	Wet 10cm	Matt Brickenden
D00007727	413145	6815802	8/2/2017			KZK	15	B	Brown	20		60		20	Alpine	Wet 10cm	Matt Brickenden
D00007728	413146	6815701	8/2/2017			KZK	15	B	Brown	25		50		25	Alpine	Wet 10cm	Matt Brickenden
D00007729	413147	6815600	8/2/2017			KZK	15	B	Brown	25		40	10	25	Alpine	Moist Below	Matt Brickenden
D00007730	413146	6815501	8/2/2017			KZK	15	B	Brown	25		45	10	20	Alpine	Wet 1cm	Matt Brickenden
D00007731	413145	6815401	8/2/2017			KZK	10	B	Brown	25		50	5	20	Alpine	Wet 10cm	Matt Brickenden
D00007732	413145	6815301	8/2/2017			KZK	10	B	Brown	10	5	60		25	Alpine	Moist Below	Matt Brickenden
D00007733	413146	6815203	8/2/2017			KZK	10	B	Brown	30	10	50		10	Alpine	Moist Below	Matt Brickenden
D00007734	413145	6815102	8/2/2017			KZK	10	B	Brown	25		60	10	5	Alpine	Moist Below	Matt Brickenden
D00007735	413145	6815000	8/2/2017			KZK	5	B	Brown	20		60		20	Alpine	Moist Below	Matt Brickenden
D00007736	413146	6814899	8/2/2017			KZK	10	B	Brown	20		60	10	10	Alpine	Moist Below	Matt Brickenden
D00007737	413145	6814800	8/2/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Matt Brickenden
D00007738	413148	6814702	8/2/2017			KZK	10	B	Brown	20	5	50		25	Alpine	Moist Below	Matt Brickenden
D00007739	413145	6814600	8/2/2017			KZK	10	B	Brown	25	5	60		10	Alpine	Moist Below	Matt Brickenden

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D00007740	413145	6814601	8/2/2017	DUP1	D00007739	KZK	10	B	Brown	25	5	60		10	Alpine	Moist Below	Matt Brickenden
D00007741	413145	6814501	8/2/2017			KZK	10	B	Brown	25		50		25	Alpine	Moist Below	Matt Brickenden
D00007742	413146	6814402	8/2/2017			KZK	5	B	Brown	10		65		25	Alpine	Moist Below	Matt Brickenden
D00007743	413147	6814305	8/2/2017			KZK	10	B	Brown	25	10	45		20	Alpine	Moist Below	Matt Brickenden
D00007744	413146	6814202	8/2/2017			KZK	10	B	Brown	25		45		30	Alpine	Moist Below	Matt Brickenden
D00007745	413146	6814101	8/2/2017			KZK	10	B	Brown	20		55	5	20	Alpine	Moist Below	Matt Brickenden
D00007746	413146	6814000	8/2/2017			KZK	10	B	Brown	10		65		25	Alpine	Moist Below	Matt Brickenden
D00007747	413142	6813902	8/2/2017			KZK	5	B	Brown	10		40		50	Alpine	Moist Below	Matt Brickenden
D00007748	413141	6813805	8/2/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Matt Brickenden
D00007749	413150	6813703	8/2/2017			KZK	5	B	Brown	10		65		25	Alpine	Moist Below	Matt Brickenden
D00007750	413145	6813603	8/2/2017			KZK	5	B	Brown	10	10	60		20	Alpine	Moist Below	Matt Brickenden
D00007751	413148	6813501	8/2/2017			KZK	10	B	Brown	10	5	65		20	Alpine	Moist Below	Matt Brickenden
D00007752	413150	6813400	8/2/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Matt Brickenden
D00007753	413149	6813299	8/2/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Matt Brickenden
D00007754	413245	6813100	8/2/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Matt Brickenden
D00007755	413247	6813001	8/2/2017			KZK	5	B	Brown	10		65	5	20	Alpine	Moist Below	Matt Brickenden
D00007756	413248	6812904	8/2/2017			KZK	5	B	Brown	20	10	60		10	Alpine	Moist Below	Matt Brickenden
D00007757	413348	6812799	8/2/2017			KZK	5	B	Brown	25		50		25	Alpine	Moist Below	Matt Brickenden
D00007758	413446	6812900	8/2/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Matt Brickenden
D00007759	413546	6813002	8/2/2017			KZK	10	B	Brown	20		50	10	20	Alpine	Moist Below	Matt Brickenden
D00007760			8/2/2017	BLANK		KZK											Matt Brickenden
D00007761	413645	6813101	8/2/2017			KZK	10	B	Brown	10		65	5	20	Alpine	Wet 1cm	Matt Brickenden
D00007762	413649	6813001	8/2/2017			KZK	5	B	Brown	10		55	10	25	Alpine	Moist Below	Matt Brickenden
D00007763	413646	6812899	8/2/2017			KZK	10	B	Brown	25		45	5	25	Alpine	Moist Below	Matt Brickenden
D00007764	413648	6812802	8/2/2017			KZK	10	B	Brown	30		50		20	Alpine	Moist Below	Matt Brickenden
D00007765	413648	6812702	8/2/2017			KZK	10	B	Brown			90		10	Alpine	Moist Below	Matt Brickenden
D00007766	413647	6812597	8/2/2017			KZK	5	B	Brown	20		50		30	Alpine	Moist Below	Matt Brickenden
D00007767	413645	6812502	8/2/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Matt Brickenden
D00007768	413551	6812499	8/2/2017			KZK	10	B	Brown	20		50	10	20	Alpine	Moist Below	Matt Brickenden

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D00007769	413547	6812599	8/2/2017			KZK	5	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007770	413543	6812697	8/2/2017			KZK	5	B	Brown	20		60	10	10	Alpine	Moist Below	Matt Brickenden
D00007771	413549	6812799	8/2/2017			KZK	10	B	Brown	30	5	55		10	Alpine	Moist Below	Matt Brickenden
D00007772	413546	6812900	8/2/2017			KZK	10	B	Brown	10		50		40	Alpine	Moist Below	Matt Brickenden
D00007773	413447	6812803	8/2/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007774	413447	6812702	8/2/2017			KZK	5	B	Brown	20		40		40	Alpine	Moist Below	Matt Brickenden
D00007775	413444	6812604	8/2/2017			KZK	5	B	Brown	30		50		20	Alpine	Moist Below	Matt Brickenden
D00007776	413447	6812501	8/2/2017			KZK	15	B	Brown	30		50		20	Alpine	Moist Below	Matt Brickenden
D00007777	413347	6812502	8/2/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007778	413345	6812602	8/2/2017			KZK	10	B	Brown	10		50	10	30	Alpine	Moist Below	Matt Brickenden
D00007779	413346	6812698	8/2/2017			KZK	10	B	Brown	30	10	50		10	Alpine	Moist Below	Matt Brickenden
D00007780	413345	6812702	8/2/2017	DUP1	D00007779	KZK	10	B	Brown	30	10	50		10	Alpine	Moist Below	Matt Brickenden
D00007781	412946	6813903	8/3/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007782	412945	6813802	8/3/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Matt Brickenden
D00007783	412947	6813702	8/3/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007784	412944	6813601	8/3/2017			KZK	5	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007785	412945	6813502	8/3/2017			KZK	10	B	Brown	15		60		25	Alpine	Moist Below	Matt Brickenden
D00007786	412941	6813399	8/3/2017			KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007787	412944	6813302	8/3/2017			KZK	5	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007788	412944	6813204	8/3/2017			KZK	5	B	Brown	25		50		25	Alpine	Moist Below	Matt Brickenden
D00007789	412940	6813097	8/3/2017			KZK	5	B	Brown			50	10	40	Alpine	Moist Below	Matt Brickenden
D00007790	412946	6813001	8/3/2017			KZK	5	B	Brown	10	10	60		20	Alpine	Moist Below	Matt Brickenden
D00007791	412946	6812902	8/3/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007792	412945	6812802	8/3/2017			KZK	5	B	Brown	20		60		20	Alpine	Moist Below	Matt Brickenden
D00007793	412945	6812706	8/3/2017			KZK	5	B	Brown	10		50		40	Alpine	Moist Below	Matt Brickenden
D00007794	412946	6812602	8/3/2017			KZK	5	B	Brown	20		60		20	Alpine	Moist Below	Matt Brickenden
D00007795	412945	6812503	8/3/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Matt Brickenden
D00007796	413047	6812501	8/3/2017			KZK	15	B	Brown	10		50		40	Alpine	Moist Below	Matt Brickenden
D00007797	413148	6812503	8/3/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Matt Brickenden

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D00007798	413047	6812602	8/3/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Matt Brickenden
D00007799	413043	6812700	8/3/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Matt Brickenden
D00007800			8/3/2017	BLANK		KZK											Matt Brickenden
D00007801	413147	6812603	8/3/2017			KZK	15	B	Brown	15		60		25	Alpine	Moist Below	Matt Brickenden
D00007802	413245	6812500	8/3/2017			KZK	10	B	Brown	20		50		30	Alpine	Moist Below	Matt Brickenden
D00007803	413245	6812601	8/3/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007804	413145	6812701	8/3/2017			KZK	10	B	Brown	10	5	65		20	Alpine	Moist Below	Matt Brickenden
D00007805	413045	6812801	8/3/2017			KZK	10	B	Brown	20		40		40	Alpine	Moist Below	Matt Brickenden
D00007806	413045	6812903	8/3/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Matt Brickenden
D00007807	413147	6812801	8/3/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007808	413247	6812701	8/3/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Matt Brickenden
D00007809	413246	6812802	8/15/2017			KZK	10	B	Brown	10		40	20	30	Alpine	Moist Below	Matt Brickenden
D00007810	413143	6812898	8/3/2017			KZK	10	B	Brown	10		50		40	Alpine	Moist Below	Matt Brickenden
D00007811	413146	6813003	8/3/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007812	413144	6813101	8/3/2017			KZK	5	B	Brown	10	5	55		30	Alpine	Moist Below	Matt Brickenden
D00007813	413047	6813103	8/3/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Matt Brickenden
D00007814	413048	6813002	8/3/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Matt Brickenden
D00007815	412744	6813199	8/3/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007816	412744	6813301	8/3/2017			KZK	10	B	Brown	10		50		40	Alpine	Moist Below	Matt Brickenden
D00007817	412744	6813401	8/3/2017			KZK	10	B	Brown	10	5	65		20	Alpine	Moist Below	Matt Brickenden
D00007818	412742	6813507	8/3/2017			KZK	10	B	Brown	20		60		20	Alpine	Moist Below	Matt Brickenden
D00007819	412744	6813600	8/3/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007820	412739	6813601	8/3/2017	DUP1	D00007819	KZK	5	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007821	412744	6813699	8/3/2017			KZK	10	B	Brown	10		50		40	Alpine	Moist Below	Matt Brickenden
D00007822	412745	6813800	8/3/2017			KZK	10	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007823	412743	6813905	8/3/2017			KZK	5	B	Brown	10	10	60		20	Alpine	Moist Below	Matt Brickenden
D00007824	412947	6814001	8/3/2017			KZK	10	B	Brown	10	5	65		20	Alpine	Moist Below	Matt Brickenden
D00007825	412941	6814099	8/3/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Matt Brickenden
D00007826	412841	6814100	8/3/2017			KZK	10	B	Brown	20		70		10	Alpine	Moist Below	Matt Brickenden

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D00007827	412844	6814002	8/3/2017			KZK	10	B	Brown	25		65		10	Alpine	Wet 1cm	Matt Brickenden
D00007828	414640	6815102	8/4/2017			KZK	10	B	Brown	10		70		20	Brush	Moist Below	Matt Brickenden
D00007829	414638	6815151	8/4/2017			KZK	15	B	Brown	30		60		10	Brush	Moist Below	Matt Brickenden
D00007830	414635	6815203	8/4/2017			KZK	15	B	Brown	10		60	10	20	Brush	Moist Below	Matt Brickenden
D00007831	414641	6815226	8/4/2017			KZK	15	B	Brown	10		60		30	Brush	Moist Below	Matt Brickenden
D00007832	414639	6815252	8/4/2017			KZK	15	B	Brown	15		60		25	Brush	Wet 1cm	Matt Brickenden
D00007833	414639	6815275	8/4/2017			KZK	15	B	Brown	25		65		10	Brush	Moist Below	Matt Brickenden
D00007834	414640	6815303	8/4/2017			KZK	15	B	Brown	20		60	10	10	Brush	Wet 1cm	Matt Brickenden
D00007835	414640	6815327	8/4/2017			KZK	15	B	Brown	20		55		25	Brush	Moist Below	Matt Brickenden
D00007836	414641	6815401	8/4/2017			KZK	20	B	Brown	20		60	10	10	Brush	Moist Below	Matt Brickenden
D00007837	414643	6815428	8/4/2017			KZK	20	B	Brown	30		60		10	Brush	Moist Below	Matt Brickenden
D00007838	414641	6815450	8/4/2017			KZK	30	B	Brown	25		60	5	10	Brush	Moist Below	Matt Brickenden
D00007839	414640	6815475	8/4/2017			KZK	20	B	Brown	20		60	10	10	Brush	Moist Below	Matt Brickenden
D00007840			8/4/2017	BLANK		KZK											Matt Brickenden
D00007841	414626	6815500	8/4/2017			KZK	20	B	Brown	25		65		10	Brush	Moist Below	Matt Brickenden
D00007842	414640	6815550	8/4/2017			KZK	30	B	Brown	25		65	10		Brush	Moist Below	Matt Brickenden
D00007843	414645	6815606	8/4/2017			KZK	30	B	Brown	30		60	10		Brush	Moist Below	Matt Brickenden
D00007844	414638	6815647	8/4/2017			KZK	30	B	Brown	30		60	10		Brush	Moist Below	Matt Brickenden
D00007845	414852	6816201	8/4/2017			KZK	10	B	Brown			80	10	10	Brush	Moist Below	Matt Brickenden
D00007846	414850	6816150	8/4/2017			KZK	10	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00007847	414849	6816101	8/4/2017			KZK	15	B	Brown	10		65	10	15	Brush	Moist Below	Matt Brickenden
D00007848	414852	6816049	8/4/2017			KZK	15	B	Brown	5		60	10	25	Brush	Moist Below	Matt Brickenden
D00007849	414852	6816002	8/4/2017			KZK	15	B	Brown	15		60	10	15	Brush	Moist Below	Matt Brickenden
D00007850	414852	6815950	8/4/2017			KZK	20	B	Brown	10		65	10	15	Brush	Moist Below	Matt Brickenden
D00007851	414880	6815902	8/4/2017			KZK	15	B	Brown	15		75	10		Brush	Moist Below	Matt Brickenden
D00007852	414882	6815852	8/4/2017			KZK	20	B	Brown	15		70	15		Brush	Wet 10cm	Matt Brickenden
D00007853	414880	6815802	8/4/2017			KZK	20	B	Brown	10		60	10	20	Brush	Moist Below	Matt Brickenden
D00007854	414881	6815749	8/4/2017			KZK	25	B	Brown	25		45		30	Brush	Wet 5cm	Matt Brickenden
D00007855	414883	6815698	8/4/2017			KZK	30	B	Brown	20		60		20	Brush	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007856	414879	6815652	8/4/2017			KZK	45	B	Brown	20		60	20		Brush	Moist Below	Matt Brickenden
D00007857	414883	6815626	8/4/2017			KZK	10	B	Brown			75	10	15	Brush	Moist Below	Matt Brickenden
D00007858	414884	6815603	8/4/2017			KZK	15	B	Brown	10		55	15	20	Brush	Moist Below	Matt Brickenden
D00007859	414879	6815576	8/4/2017			KZK	25	B	Brown	40		60			Brush	Wet 5cm	Matt Brickenden
D00007860	414879	6815575	8/4/2017	DUP1	D00007859	KZK	25	B	Brown	20		60	20		Brush	Wet 20cm	Matt Brickenden
D00007861	414880	6815553	8/4/2017			KZK	10	B	Brown	5		85	5	5	Brush	Moist Below	Matt Brickenden
D00007862	414883	6815527	8/4/2017			KZK	10	B	Brown			70	10	20	Brush	Moist Below	Matt Brickenden
D00007863	414881	6815502	8/4/2017			KZK	15	B	Brown	10		50		40	Brush	Moist Below	Matt Brickenden
D00007864	414878	6815454	8/4/2017			KZK	15	B	Brown	10		70		20	Brush	Moist Below	Matt Brickenden
D00007865	414882	6815429	8/4/2017			KZK	15	B	Brown	10		40	40	10	Brush	Moist Below	Matt Brickenden
D00007866	414884	6815477	8/4/2017			KZK	20	B	Brown	25		40	10	25	Brush	Moist Below	Matt Brickenden
D00007867	414880	6815402	8/4/2017			KZK	5	B	Brown	15		60	10	15	Brush	Moist Below	Matt Brickenden
D00007868	414881	6815378	8/4/2017			KZK	35	B	Brown	10	10	80			Brush	Wet 1cm	Matt Brickenden
D00007869	414881	6815354	8/4/2017			KZK	25	B	Brown	25		55	10	10	Brush	Moist Below	Matt Brickenden
D00007870	414881	6815250	8/4/2017			KZK	15	B	Brown	15		75	10		Brush	Moist Below	Matt Brickenden
D00007871	414881	6815226	8/4/2017			KZK	10	B	Brown	20		45	10	25	Brush	Wet 1cm	Matt Brickenden
D00007872	414879	6815201	8/4/2017			KZK	10	B	Brown	10		40	20	30	Brush	Moist Below	Matt Brickenden
D00007873	414840	6815173	8/4/2017			KZK	15	B	Grey	5		65	15	15	Brush	Moist Below	Matt Brickenden
D00007874	414842	6815153	8/4/2017			KZK	15	B	Brown	20		80			Brush	Moist Below	Matt Brickenden
D00007875	414839	6815128	8/4/2017			KZK	10	B	Brown	10		30		60	Brush	Moist Below	Matt Brickenden
D00007876	414840	6815103	8/4/2017			KZK	20	B	Brown	5		80	10	5	Brush	Moist Below	Matt Brickenden
D00007877	414838	6815079	8/4/2017			KZK	20	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00007878	414839	6815053	8/4/2017			KZK	30	B	Brown	20		40	20	20	Brush	Moist Below	Matt Brickenden
D00007879	414850	6815027	8/4/2017			KZK	15	B	Brown	10		50	20	20	Brush	Wet 10 cm	Matt Brickenden
D00007880			8/4/2017	BLANK		KZK											Matt Brickenden
D00007881	414852	6815001	8/4/2017			KZK	15	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00007882	414854	6814973	8/4/2017			KZK	10	B	Brown	10		60	10	20	Brush	Moist Below	Matt Brickenden
D00007883	414849	6814954	8/4/2017			KZK	10	B	Brown	40		60			Brush	Moist Below	Matt Brickenden
D00007884	414850	6814928	8/4/2017			KZK	20	B	Brown	50		50			Brush	Moist Below	Matt Brickenden

Sample ID	UTM E	UTM N	Date	QAQC	Primary Sample	Property	Depth	Horizon	Colour	Organic %	Clay %	Silt %	Sand %	Pebbles %	Vegetation	Soil Comments	Sampler
D00007885	412944	6814202	8/5/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007886	412946	6814301	8/5/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007887	412943	6814402	8/5/2017			KZK	5	B	Brown	20		50		30	Alpine	Moist Below	Matt Brickenden
D00007888	412945	6814501	8/5/2017			KZK	10	B	Brown	10		60		30	Alpine	Moist Below	Matt Brickenden
D00007889	412946	6814600	8/5/2017			KZK	15	B	Brown	20		40	10	30	Alpine	Moist Below	Matt Brickenden
D00007890	412944	6814701	8/5/2017			KZK	15	B	Brown	10		60	20	10	Alpine	Moist Below	Matt Brickenden
D00007891	412944	6814801	8/5/2017			KZK	10	B	Brown	10		50	10	30	Alpine	Moist Below	Matt Brickenden
D00007892	412944	6814901	8/5/2017			KZK	10	B	Brown	20		60	10	10	Alpine	Moist Below	Matt Brickenden
D00007893	412937	6815005	8/5/2017			KZK	15	B	Brown	40		50		10	Alpine	Moist Below	Matt Brickenden
D00007894	412945	6815102	8/5/2017			KZK	10	B	Brown	30		50	10	10	Alpine	Moist Below	Matt Brickenden
D00007895	412944	6815202	8/5/2017			KZK	20	B	Brown	30		40	10	20	Alpine	Moist Below	Matt Brickenden
D00007896	412946	6815299	8/5/2017			KZK	10	B	Brown	30		40	10	20	Alpine	Moist Below	Matt Brickenden
D00007897	412944	6815400	8/5/2017			KZK	15	B	Brown	20		70	10		Alpine	Moist Below	Matt Brickenden
D00007898	412944	6815500	8/5/2017			KZK	10	B	Brown	30		40	10	20	Alpine	Moist Below	Matt Brickenden
D00007899	412945	6815601	8/5/2017			KZK	10	B	Brown	20		50	10	20	Alpine	Moist Below	Matt Brickenden
D00007900	412944	6815601	8/5/2017	DUP1	D00007899	KZK	15	B	Brown	20		40	20	20	Alpine	Moist Below	Matt Brickenden
D00007901	412942	6815699	8/5/2017			KZK	15	B	Brown	30		30	20	20	Alpine	Moist Below	Matt Brickenden
D00007902	412945	6815800	8/5/2017			KZK	20	B	Brown	20		40	10	30	Alpine	Wet 5cm	Matt Brickenden
D00007903	412945	6815901	8/5/2017			KZK	20	B	Brown	20		40	30	10	Alpine	Wet 10cm	Matt Brickenden
D00007904	412744	6815901	8/5/2017			KZK	10	B	Brown	30		50	10	10	Alpine	Moist Below	Matt Brickenden
D00007905	412745	6815995	8/5/2017			KZK	40	B	Brown	20		40	20	20	Alpine	Wet 40cm	Matt Brickenden
D00007906	412748	6816100	8/5/2017			KZK	10	B	Brown	20		50	20	10	Alpine	Moist Below	Matt Brickenden
D00007907	412744	6816201	8/5/2017			KZK	5	B	Brown	10		50	10	30	Alpine	Moist Below	Matt Brickenden
D00007908	412746	6816300	8/5/2017			KZK	20	B	Brown	30		50	10	10	Alpine	Wet 5cm	Matt Brickenden
D00007909	412745	6816396	8/5/2017			KZK	15	B	Brown	40		60			Alpine	Moist Below	Matt Brickenden
D00007910	412747	6816504	8/5/2017			KZK	15	B	Brown	30		50		20	Alpine	Moist Below	Matt Brickenden
D00007911	412747	6816599	8/5/2017			KZK	10	B	Brown	20		40	20	20	Alpine	Moist Below	Matt Brickenden
D00007912	412644	6816601	8/5/2017			KZK	15	B	Brown	30		30	10	30	Alpine	Moist Below	Matt Brickenden
D00007913	412546	6816600	8/5/2017			KZK	15	B	Brown	40		40		20	Alpine	Moist Below	Matt Brickenden

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D00007914	412447	6816600	8/5/2017			KZK	15	B	Brown	40		40		20	Alpine	Moist Below	Matt Brickenden
D00007915	412344	6816603	8/5/2017			KZK	40	B	Brown	40		40	10	10	Alpine	Moist Below	Matt Brickenden
D00007916	412240	6816604	8/5/2017			KZK	15	B	Brown	20		60	10	10	Alpine	Moist Below	Matt Brickenden
D00007917	412145	6816601	8/5/2017			KZK	10	B	Brown	10		70	10	10	Brush	Moist Below	Matt Brickenden
D00007918	412039	6816599	8/5/2017			KZK	10	B	Brown	20		50	20	10	Brush	Moist Below	Matt Brickenden
D00007919	411944	6816600	8/5/2017			KZK	10	B	Orange			70	10	20	Brush	Moist Below	Matt Brickenden
D00007920			8/5/2017	BLANK		KZK											Matt Brickenden
D00007921	411845	6816599	8/5/2017			KZK	5	B	Brown	10		60	20	10	Brush	Moist Below	Matt Brickenden
D00007922	411843	6816800	8/5/2017			KZK	15	B	Brown	30		50	10	10	Brush	Moist Below	Matt Brickenden
D00007923	411943	6816800	8/5/2017			KZK	15	B	Brown	20		40	10	30	Brush	Moist Below	Matt Brickenden
D00007924	412045	6816799	8/5/2017			KZK	15	B	Brown	30		50	10	10	Brush	Moist Below	Matt Brickenden
D00007925	412146	6816799	8/5/2017			KZK	20	B	Brown	10		50	10	30	Brush	Moist Below	Matt Brickenden
D00007926	412245	6816799	8/5/2017			KZK	15	B	Brown	40		40		20	Brush	Moist Below	Matt Brickenden
D00007927	412340	6816802	8/5/2017			KZK	25	B	Brown	40		40		20	Alpine	Moist Below	Matt Brickenden
D00007928	412446	6816801	8/5/2017			KZK	20	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007929	412549	6816799	8/5/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007930	412645	6816802	8/5/2017			KZK	15	B	Brown	20		30	20	30	Alpine	Moist Below	Matt Brickenden
D00007931	412247	6816999	8/5/2017			KZK	10	B	Brown	15		60	15	10	Alpine	Moist Below	Matt Brickenden
D00007932	412144	6817003	8/5/2017			KZK	10	B	Brown	20		40	20	20	Alpine	Moist Below	Matt Brickenden
D00007933	412042	6817003	8/5/2017			KZK	10	B	Brown	15		45	15	25	Alpine	Moist Below	Matt Brickenden
D00007934	411948	6817000	8/5/2017			KZK	5	B	Brown	10		45	15	30	Alpine	Moist Below	Matt Brickenden
D00007935	411843	6817003	8/5/2017			KZK	10	B	Brown	20		60	10	10	Alpine	Moist Below	Matt Brickenden
D00007936	411646	6817101	8/5/2017			KZK	15	B	Brown	15		35	10	40	Alpine	Moist Below	Matt Brickenden
D00007937	411641	6816999	8/5/2017			KZK	15	B	Brown	10		70		20	Alpine	Moist Below	Matt Brickenden
D00007938	411644	6816902	8/5/2017	DUP1	D00006236	KZK	15	B	Brown	10		60	20	10	Alpine	Moist Below	Matt Brickenden
D00007939	411642	6816800	8/5/2017			KZK	10	B	Brown	10		50	30	10	Brush	Moist Below	Matt Brickenden
D00007940	411643	6816799	8/5/2017	DUP1	D00007939	KZK	10	B	Brown	5		60	15	20	Brush	Moist Below	Matt Brickenden
D00007941	411642	6816702	8/5/2017			KZK	25	B	Brown	15		45	10	30	Brush	Wet 25cm	Matt Brickenden
D00007942	412345	6817000	8/5/2017			KZK	15	B	Brown	20		45	10	25	Brush	Moist Below	Matt Brickenden

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D00007943	412544	6813401	8/6/2017			KZK	5	B	Brown			70		30	Alpine	Moist Below	Matt Brickenden
D00007944	412542	6813502	8/6/2017			KZK	5	B	Brown			60	10	30	Alpine	Moist Below	Matt Brickenden
D00007945	412545	6813601	8/6/2017			KZK	5	B	Brown	10		50	10	30	Alpine	Moist Below	Matt Brickenden
D00007946	412546	6813699	8/6/2017			KZK	10	B	Brown	10		55	15	20	Alpine	Moist Below	Matt Brickenden
D00007947	412545	6813801	8/6/2017			KZK	10	B	Brown			65	10	25	Alpine	Moist Below	Matt Brickenden
D00007948	412545	6813901	8/6/2017			KZK	10	B	Brown			65	10	25	Alpine	Moist Below	Matt Brickenden
D00007949	412544	6813998	8/6/2017			KZK	10	B	Brown			65	10	25	Alpine	Moist Below	Matt Brickenden
D00007950	412545	6814101	8/6/2017			KZK	10	B	Brown			65	10	25	Alpine	Moist Below	Matt Brickenden
D00007951	412543	6814202	8/6/2017			KZK	10	B	Brown	10		90			Alpine	Moist Below	Matt Brickenden
D00007952	412547	6814304	8/6/2017			KZK	10	B	Brown	10		60	10	20	Alpine	Moist Below	Matt Brickenden
D00007953	412543	6814400	8/6/2017			KZK	10	B	Brown	10		55	25	10	Alpine	Moist Below	Matt Brickenden
D00007954	412543	6814500	8/6/2017			KZK	10	B	Brown	20		50	10	20	Alpine	Moist Below	Matt Brickenden
D00007955	412543	6814603	8/6/2017			KZK	10	B	Brown	10		45	15	30	Alpine	Moist Below	Matt Brickenden
D00007956	412545	6814703	8/6/2017			KZK	10	B	Brown			55	20	25	Alpine	Moist Below	Matt Brickenden
D00007957	412542	6814803	8/6/2017			KZK	10	B	Brown	10		45	25	20	Alpine	Moist Below	Matt Brickenden
D00007958	412543	6814900	8/6/2017			KZK	10	B	Brown	10		45	20	25	Alpine	Moist Below	Matt Brickenden
D00007959	412545	6815001	8/6/2017			KZK	10	B	Brown	10		55	15	20	Alpine	Moist Below	Matt Brickenden
D00007960			8/6/2017	BLANK		KZK											Matt Brickenden
D00007961	412545	6815101	8/6/2017			KZK	10	B	Brown	15		45	20	20	Alpine	Moist Below	Matt Brickenden
D00007962	412544	6815203	8/6/2017			KZK	10	B	Brown	15		45	15	25	Alpine	Moist Below	Matt Brickenden
D00007963	412545	6815300	8/6/2017			KZK	10	B	Brown	15		45	15	25	Alpine	Moist Below	Matt Brickenden
D00007964	412546	6815403	8/6/2017			KZK	10	B	Brown	10		55	15	20	Alpine	Moist Below	Matt Brickenden
D00007965	412544	6815500	8/6/2017			KZK	10	B	Brown	10		60	20	10	Alpine	Moist Below	Matt Brickenden
D00007966	412545	6815602	8/6/2017			KZK	10	B	Brown	40	10	30	10	10	Alpine	Moist Below	Matt Brickenden
D00007967	412546	6815697	8/6/2017			KZK	10	B	Brown	10		50	20	20	Alpine	Moist Below	Matt Brickenden
D00007968	412545	6815800	8/6/2017			KZK	10	B	Brown	30			10	60	Alpine	Moist Below	Matt Brickenden
D00007969	412544	6815901	8/6/2017			KZK	15	B	Brown	20		45	20	15	Alpine	Moist Below	Matt Brickenden
D00007970	412544	6816000	8/6/2017			KZK	15	B	Brown	50		50			Alpine	Moist Below	Matt Brickenden
D00007971	412541	6816100	8/6/2017			KZK	15	B	Brown	50		50			Alpine	Moist Below	Matt Brickenden

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D00007972	412543	6816198	8/6/2017			KZK	20	B	Brown	20		35	20	25	Alpine	Moist Below	Matt Brickenden
D00007973	412642	6816304	8/6/2017			KZK	15	B	Brown	20		40	20	20	Alpine	Moist Below	Matt Brickenden
D00007974	412648	6816400	8/6/2017			KZK	15	B	Brown	25		30	15	30	Alpine	Moist Below	Matt Brickenden
D00007975	412544	6816400	8/6/2017			KZK	15	B	Brown	20		50	10	20	Alpine	Moist Below	Matt Brickenden
D00007976	412444	6816403	8/6/2017			KZK	15	B	Brown	20		50	10	20	Alpine	Moist Below	Matt Brickenden
D00007977	412346	6816402	8/6/2017			KZK	15	B	Brown	20		50	10	20	Alpine	Moist Below	Matt Brickenden
D00007978	412243	6816399	8/6/2017			KZK	15	B	Brown	15		45	15	25	Alpine	Moist Below	Matt Brickenden
D00007979	412147	6816398	8/6/2017			KZK	15	B	Brown	25		40	15	20	Alpine	Moist Below	Matt Brickenden
D00007980	412147	6816399	8/6/2017	DUP1	D00007979	KZK	15	B	Brown	10		40	20	30	Alpine	Moist Below	Matt Brickenden
D00007981	412042	6816399	8/6/2017			KZK	15	B	Brown	20		40	20	20	Alpine	Moist Below	Matt Brickenden
D00007982	411949	6816394	8/6/2017			KZK	15	B	Brown	10	10	50	20	10	Alpine	Moist Below	Matt Brickenden
D00007983	411847	6816400	8/6/2017			KZK	15	B	Brown	40		40	10	10	Alpine	Moist Below	Matt Brickenden
D00007984	411749	6816402	8/6/2017			KZK	15	B	Brown	20		40	10	30	Alpine	Moist Below	Matt Brickenden
D00007985	411645	6816400	8/6/2017			KZK	15	B	Brown	20		40	10	30	Alpine	Moist Below	Matt Brickenden
D00007986	411548	6816401	8/6/2017			KZK	15	B	Brown	5		55	20	20	Alpine	Moist Below	Matt Brickenden
D00007987	411446	6816402	8/6/2017			KZK	15	B	Brown	20		40	15	25	Alpine	Moist Below	Matt Brickenden
D00007988	411346	6816401	8/6/2017			KZK	15	B	Brown	15		40	15	30	Alpine	Moist Below	Matt Brickenden
D00007989	411244	6816401	8/6/2017			KZK	15	B	Brown	15		50	15	20	Alpine	Moist Below	Matt Brickenden
D00007990	410945	6816399	8/6/2017			KZK	15	B	Brown	15		45	15	25	Alpine	Moist Below	Matt Brickenden
D00007991	412344	6813404	8/7/2017			KZK	5	B	Brown			50	20	30	Alpine	Moist Below	Matt Brickenden
D00007992	412344	6813503	8/7/2017			KZK	5	B	Brown			65	10	25	Alpine	Moist Below	Matt Brickenden
D00007993	412342	6813603	8/7/2017			KZK	5	B	Brown			60	15	25	Alpine	Moist Below	Matt Brickenden
D00007994	412342	6813700	8/7/2017			KZK	5	B	Brown			50	20	30	Alpine	Moist Below	Matt Brickenden
D00007995	412344	6813801	8/7/2017			KZK	5	B	Brown	10		80	10		Alpine	Moist Below	Matt Brickenden
D00007996	412344	6813898	8/7/2017			KZK	5	B	Brown	15		55	10	20	Alpine	Moist Below	Matt Brickenden
D00007997	412343	6814000	8/7/2017			KZK	5	B	Brown	15		55	10	20	Alpine	Moist Below	Matt Brickenden
D00007998	412344	6814102	8/7/2017			KZK	5	B	Brown	10		50	15	25	Alpine	Moist Below	Matt Brickenden
D00007999	412344	6814202	8/7/2017			KZK	5	B	Brown	10		45	15	30	Alpine	Moist Below	Matt Brickenden
D00008000			8/7/2017	BLANK		KZK											Matt Brickenden

[1] Easting and Northing coordinates are presented in UTM Zone 9, NAD83 projection

Appendix L: Soil Sample pH

This appendix contains measured pH values for all 2017 soil samples and standards.

Table L-1: Measured pH values of 2017 Soil Samples

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
_InstruCAL				8/26/2017	PT2.1	0.00	1.0E+00	1.00E+00	#DIV/0!	
D00007828	4.34	2.64	19.30	8/26/2017	PT2.1	1.70	4.6E-05	2.29E-03	445	
D00007829	4.60	3.45	19.60	8/26/2017	PT2.1	1.15	2.5E-05	3.55E-04	3033	
D00007830	4.67	2.23	20.00	8/26/2017	PT2.1	2.44	2.1E-05	5.89E-03	170	
D00007831	4.32	3.00	20.50	8/26/2017	PT2.1	1.32	4.8E-05	1.00E-03	1050	
D00007832	4.68	2.72	20.00	8/26/2017	PT2.1	1.96	2.1E-05	1.91E-03	531	
D00007833	4.55	3.77	21.30	8/26/2017	PT2.1	0.78	2.8E-05	1.70E-04	7060	
D00007834	5.99	4.22	20.40	8/26/2017	PT2.1	1.77	1.0E-06	6.03E-05	16883	
D00007835	5.06	3.89	21.20	8/26/2017	PT2.1	1.17	8.7E-06	1.29E-04	8325	
D00007836	6.12	3.87	20.70	8/26/2017	PT2.1	2.25	7.6E-07	1.35E-04	7455	
D00007837	5.70	4.79	21.40	8/26/2017	PT2.1	0.91	2.0E-06	1.62E-05	70309	
D00007838	4.88	3.61	20.60	8/26/2017	PT2.1	1.27	1.3E-05	2.45E-04	4305	
D00007839	5.87	4.59	20.00	8/26/2017	PT2.1	1.28	1.3E-06	2.57E-05	41059	
_GravelPitSTD	6.81	3.92	20.6	8/26/2017	PT2.1	2.89	1.5E-07	1.20E-04	8328	D00007840 (GravPitStd_23) Blank
D00007841	5.65	4.77	21.80	8/26/2017	PT2.1	0.88	2.2E-06	1.70E-05	67826	
D00007842	6.28	5.05	21.80	8/26/2017	PT2.1	1.23	5.2E-07	8.91E-06	119222	
D00007843	6.18	5.34	21.60	8/26/2017	PT2.1	0.84	6.6E-07	4.57E-06	255742	
D00007844	5.93	4.96	23.00	8/26/2017	PT2.1	0.97	1.2E-06	1.10E-05	102146	
D00007845	4.78	2.74	22.60	8/26/2017	PT2.1	2.04	1.7E-05	1.82E-03	555	
D00007846	5.53	3.87	22.80	8/26/2017	PT2.1	1.66	3.0E-06	1.35E-04	7579	
D00007847	5.13	2.99	22.80	8/26/2017	PT2.1	2.14	7.4E-06	1.02E-03	984	
D00007848	4.27	2.75	23.20	8/26/2017	PT2.1	1.52	5.4E-05	1.78E-03	580	
D00007849	5.33	4.12	23.00	8/26/2017	PT2.1	1.21	4.7E-06	7.59E-05	14049	
D00007850	5.87	3.83	22.50	8/26/2017	PT2.1	2.04	1.3E-06	1.48E-04	6823	
D00007851	5.85	4.68	22.80	8/26/2017	PT2.1	1.17	1.4E-06	2.09E-05	51334	
D00007852	6.39	5.53	22.50	8/26/2017	PT2.1	0.86	4.1E-07	2.95E-06	393108	
D00007853	6.20	4.83	22.50	8/26/2017	PT2.1	1.37	6.3E-07	1.48E-05	70621	
D00007854	6.29	5.39	22.40	8/26/2017	PT2.1	0.90	5.1E-07	4.07E-06	280825	
D00007855	6.46		22.70	8/26/2017	PT2.1	6.46	3.5E-07	1.00E+00	1	
D00007856	6.52	4.77	19.80	8/26/2017	PT2.1	1.75	3.0E-07	1.70E-05	59950	
D00007857	5.64	3.13	19.60	8/26/2017	PT2.1	2.51	2.3E-06	7.41E-04	1353	
D00007858	6.00	4.68	23.20	8/26/2017	PT2.1	1.32	1.0E-06	2.09E-05	50269	
D00007859	6.25	4.80	23.90	8/26/2017	PT2.1	1.45	5.6E-07	1.58E-05	65417	
D00007860	6.33	4.96	23.50	8/26/2017	PT2.1	1.37	4.7E-07	1.10E-05	95265	
D00007861	6.13	4.39	24.60	8/26/2017	PT2.1	1.74	7.4E-07	4.07E-05	25002	
D00007862	4.45	2.36	23.10	8/26/2017	PT2.1	2.09	3.5E-05	4.37E-03	231	
D00007863	5.55	4.90	24.00	8/26/2017	PT2.1	0.65	2.8E-06	1.26E-05	102345	
D00007864	5.96	4.76	24.10	8/26/2017	PT2.1	1.20	1.1E-06	1.74E-05	61419	
D00007865	6.11	4.41	24.40	8/26/2017	PT2.1	1.70	7.8E-07	3.89E-05	26227	
D00007866	5.88	5.18	24.20	8/26/2017	PT2.1	0.70	1.3E-06	6.61E-06	189083	
D00007867	5.91	4.85	23.80	8/26/2017	PT2.1	1.06	1.2E-06	1.41E-05	77549	
D00007868	5.84	5.24	24.90	8/26/2017	PT2.1	0.60	1.4E-06	5.75E-06	232075	
D00007869	5.85	4.85	23.40	8/26/2017	PT2.1	1.00	1.4E-06	1.41E-05	78661	
D00007870	5.67	4.46	24.00	8/26/2017	PT2.1	1.21	2.1E-06	3.47E-05	30735	
D00007871	5.97	4.75	23.80	8/26/2017	PT2.1	1.22	1.1E-06	1.78E-05	59840	
D00007872	6.25	5.57	23.70	8/26/2017	PT2.1	0.68	5.6E-07	2.69E-06	469661	
D00007873	6.08	4.84	23.60	8/26/2017	PT2.1	1.24	8.3E-07	1.45E-05	73407	
D00007874	6.23	4.84	24.00	8/26/2017	PT2.1	1.39	5.9E-07	1.45E-05	72121	
D00007875	4.36	2.74	23.50	8/26/2017	PT2.1	1.62	4.4E-05	1.82E-03	563	
D00007876	5.00	3.48	23.10	8/26/2017	PT2.1	1.52	1.0E-05	3.31E-04	3114	
D00007877	5.85	4.33	23.40	8/26/2017	PT2.1	1.52	1.4E-06	4.68E-05	22045	
D00007878	5.47	4.27	23.30	8/26/2017	PT2.1	1.20	3.4E-06	5.37E-05	19875	
D00007879	6.17	4.90	23.40	8/26/2017	PT2.1	1.27	6.8E-07	1.26E-05	83941	
_GravelPitSTD	6.74		23.0	8/26/2017	PT2.1	6.74	1.8E-07	1.00E+00	1	D00007880 (Gravpitstd_24) Blank
D00007881	4.81	3.25	8.60	8/26/2017	PT2.1	1.56	1.5E-05	5.62E-04	1829	
D00007882	5.52	3.33	8.40	8/26/2017	PT2.1	2.19	3.0E-06	4.68E-04	2152	
D00007883	5.07	4.00	9.00	8/26/2017	PT2.1	1.07	8.5E-06	1.00E-04	10930	
D00007884	5.77	4.90	9.50	8/26/2017	PT2.1	0.87	1.7E-06	1.26E-05	91819	
_GravelPitSTD	6.14	4.36	16.4	8/26/2017	PT2.1	1.78	7.2E-07	4.37E-05	23295	GravPitStd_18
_GravelPitSTD	6.52	4.56	17.6	8/26/2017	PT2.1	1.96	3.0E-07	2.75E-05	36710	GravPitStd_19
_GravelPitSTD	6.55	4.41	17.1	8/26/2017	PT2.1	2.14	2.8E-07	3.89E-05	25892	GravPitStd_20
_GravelPitSTD	6.77	4.77	17.9	8/26/2017	PT2.1	2.00	1.7E-07	1.70E-05	59479	GravPitStd_21

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
_GravelPitSTD	6.69	4.79	18.6	8/26/2017	PT2.1	1.90	2.0E-07	1.62E-05	62446	GravPitStd_22
_pH10STD	10.05		18.9	8/26/2017	PT2.1	10.05	8.9E-11	1.00E+00	1	42973.35417
_pH10STD	10.07		20.2	8/26/2017	PT2.1	10.07	8.5E-11	1.00E+00	1	
_pH10STD	10.00		23.0	8/26/2017	PT2.1	10.00	1.0E-10	1.00E+00	1	
_pH4STD	4.05		18.9	8/26/2017	PT2.1	4.05	8.9E-05	1.00E+00	1	42973.35417
_pH4STD	4.14		19.6	8/26/2017	PT2.1	4.14	7.2E-05	1.00E+00	1	
_pH4STD	4.12		22.6	8/26/2017	PT2.1	4.12	7.6E-05	1.00E+00	1	
_pH7STD	7.04		19.0	8/26/2017	PT2.1	7.04	9.1E-08	1.00E+00	1	42973.35417
_pH7STD	7.09		19.7	8/26/2017	PT2.1	7.09	8.1E-08	1.00E+00	1	
_pH7STD	7.07		22.1	8/26/2017	PT2.1	7.07	8.5E-08	1.00E+00	1	
_pH7STD	6.98		5.0	8/27/2017	PT2.1	6.98	1.0E-07	1.00E+00	1	
_pH4STD	4.03		6.8	8/27/2017	PT2.1	4.03	9.3E-05	1.00E+00	1	
_pH10STD	10.03		6.7	8/27/2017	PT2.1	10.03	9.3E-11	1.00E+00	1	
D00007885	5.49	2.72	9.50	8/27/2017	PT2.1	2.77	3.2E-06	1.91E-03	526	
D00007886	4.71	2.81	10.10	8/27/2017	PT2.1	1.90	1.9E-05	1.55E-03	654	
D00007887	5.14	3.94	11.40	8/27/2017	PT2.1	1.20	7.2E-06	1.15E-04	9296	
D00007888	4.82	3.05	12.00	8/27/2017	PT2.1	1.77	1.5E-05	8.91E-04	1141	
D00007889	4.84	3.56	11.90	8/27/2017	PT2.1	1.28	1.4E-05	2.75E-04	3832	
D00007890	5.12	2.62	13.20	8/27/2017	PT2.1	2.50	7.6E-06	2.40E-03	418	
D00007891	5.12		12.70	8/27/2017	PT2.1	5.12	7.6E-06	1.00E+00	1	no acid
D00007892	5.03	3.38	13.80	8/27/2017	PT2.1	1.65	9.3E-06	4.17E-04	2454	
D00007893	5.03	4.11	14.50	8/27/2017	PT2.1	0.92	9.3E-06	7.76E-05	14643	
D00007894	5.47	4.32	15.40	8/27/2017	PT2.1	1.15	3.4E-06	4.79E-05	22485	
D00007895	4.80	3.66	14.80	8/27/2017	PT2.1	1.14	1.6E-05	2.19E-04	4928	
D00007896	5.05	3.63	15.20	8/27/2017	PT2.1	1.42	8.9E-06	2.34E-04	4434	
D00007897	4.98	4.83	16.40	8/27/2017	PT2.1	0.15	1.0E-05	1.48E-05	231492	
D00007898	4.92	3.57	16.40	8/27/2017	PT2.1	1.35	1.2E-05	2.69E-04	3889	
D00007899	5.55	4.25	17.10	8/27/2017	PT2.1	1.30	2.8E-06	5.62E-05	18721	
D00007900	5.56	4.08	18.50	8/27/2017	PT2.1	1.48	2.8E-06	8.32E-05	12434	
D00007901	5.64	4.17	19.40	8/27/2017	PT2.1	1.47	2.3E-06	6.76E-05	15310	
D00007902	5.77	4.78	18.70	8/27/2017	PT2.1	0.99	1.7E-06	1.66E-05	67125	
D00007903	5.35	3.44	19.10	8/27/2017	PT2.1	1.91	4.5E-06	3.63E-04	2789	
D00007904	5.20	4.28	18.80	8/27/2017	PT2.1	0.92	6.3E-06	5.25E-05	21659	
D00007905	5.47	3.75	16.50	8/27/2017	PT2.1	1.72	3.4E-06	1.78E-04	5733	
D00007906	5.52	4.22	17.10	8/27/2017	PT2.1	1.30	3.0E-06	6.03E-05	17472	
D00007907	5.73	3.82	17.80	8/27/2017	PT2.1	1.91	1.9E-06	1.51E-04	6689	
D00007908	5.61	4.26	17.00	8/27/2017	PT2.1	1.35	2.5E-06	5.50E-05	19048	
D00007909	6.15	5.50	17.80	8/27/2017	PT2.1	0.65	7.1E-07	3.16E-06	407443	
D00007910	6.16	5.25	17.80	8/27/2017	PT2.1	0.91	6.9E-07	5.62E-06	202775	
B00292827	5.11	2.82	16.70	8/27/2017	PT2.1	2.29	7.8E-06	1.51E-03	664	
B00292828	5.33	3.44	17.50	8/27/2017	PT2.1	1.89	4.7E-06	3.63E-04	2790	
B00292829	4.48	3.08	17.00	8/27/2017	PT2.1	1.40	3.3E-05	8.32E-04	1252	
B00292830	4.96	4.40	18.20	8/27/2017	PT2.1	0.56	1.1E-05	3.98E-05	34667	
B00292831	5.27	4.13	17.20	8/27/2017	PT2.1	1.14	5.4E-06	7.41E-05	14543	
B00292832	5.06	3.98	20.20	8/27/2017	PT2.1	1.08	8.7E-06	1.05E-04	10416	
B00292833	4.62	3.82	20.40	8/27/2017	PT2.1	0.80	2.4E-05	1.51E-04	7851	
B00292834	4.39	2.89	28.00	8/27/2017	PT2.1	1.50	4.1E-05	1.29E-03	802	
B00292835	4.59	2.77	19.50	8/27/2017	PT2.1	1.82	2.6E-05	1.70E-03	598	
B00292836	4.80	3.41	19.90	8/27/2017	PT2.1	1.39	1.6E-05	3.89E-04	2680	
B00292837	4.42	2.89	19.10	8/27/2017	PT2.1	1.53	3.8E-05	1.29E-03	800	
B00292838	4.15	2.78	19.60	8/27/2017	PT2.1	1.37	7.1E-05	1.66E-03	629	
B00292839	4.53	3.12	19.30	8/27/2017	PT2.1	1.41	3.0E-05	7.59E-04	1372	
B00292840	4.59	2.73	19.00	8/27/2017	PT2.1	1.86	2.6E-05	1.86E-03	545	
B00292841	4.75	3.42	19.10	8/27/2017	PT2.1	1.33	1.8E-05	3.80E-04	2759	
B00292842	4.75	3.52	19.40	8/27/2017	PT2.1	1.23	1.8E-05	3.02E-04	3518	
B00292843	4.57	3.29	19.50	8/27/2017	PT2.1	1.28	2.7E-05	5.13E-04	2058	
B00292844	4.38	2.75	19.60	8/27/2017	PT2.1	1.63	4.2E-05	1.78E-03	576	
B00292845	3.99	3.16	19.70	8/27/2017	PT2.1	0.83	1.0E-04	6.92E-04	1696	
B00292846	4.30	2.89	19.60	8/27/2017	PT2.1	1.41	5.0E-05	1.29E-03	808	
B00292847	4.76	2.88	19.80	8/27/2017	PT2.1	1.88	1.7E-05	1.32E-03	769	
B00292848	4.46	2.82	19.90	8/27/2017	PT2.1	1.64	3.5E-05	1.51E-03	676	
B00292849	4.01	2.79	20.00	8/27/2017	PT2.1	1.22	9.8E-05	1.62E-03	656	
B00292850	4.25	2.73	20.40	8/27/2017	PT2.1	1.52	5.6E-05	1.86E-03	554	
B00292851	3.92	2.96	20.70	8/27/2017	PT2.1	0.96	1.2E-04	1.10E-03	1024	
B00292852	4.61	3.27	20.20	8/27/2017	PT2.1	1.34	2.5E-05	5.37E-04	1951	
B00292853	5.50	3.72	19.40	8/27/2017	PT2.1	1.78	3.2E-06	1.91E-04	5337	
B00292854	4.89	3.49	21.00	8/27/2017	PT2.1	1.40	1.3E-05	3.24E-04	3218	
B00292855	4.34	2.83	19.60	8/27/2017	PT2.1	1.51	4.6E-05	1.48E-03	698	
B00292856	5.40	3.99	19.10	8/27/2017	PT2.1	1.41	4.0E-06	1.02E-04	10168	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
B00292857	5.43	4.47	19.90	8/27/2017	PT2.1	0.96	3.7E-06	3.39E-05	33147	
B00292858	4.59	2.78	19.20	8/27/2017	PT2.1	1.81	2.6E-05	1.66E-03	612	
B00292859	4.05	2.98	17.20	8/27/2017	PT2.1	1.07	8.9E-05	1.05E-03	1044	
_GravelPitSTD	6.85	4.70	19.1	8/27/2017	PT2.1	2.15	1.4E-07	2.00E-05	50476	B00292860 Gravpitstd_25 Blank
_pH4STD	4.12		19.0	8/27/2017	PT2.1	4.12	7.6E-05	1.00E+00	1	
_pH7STD	7.04		19.0	8/27/2017	PT2.1	7.04	9.1E-08	1.00E+00	1	
_pH10STD	9.99		19.6	8/27/2017	PT2.1	9.99	1.0E-10	1.00E+00	1	
B00292861	4.69	4.10	18.00	8/27/2017	PT2.1	0.59	2.0E-05	7.94E-05	16945	
B00292862	4.24	3.35	17.00	8/27/2017	PT2.1	0.89	5.8E-05	4.47E-04	2570	
B00292863	6.06	4.35	16.70	8/27/2017	PT2.1	1.71	8.7E-07	4.47E-05	22832	
B00292864	4.90	3.61	17.30	8/27/2017	PT2.1	1.29	1.3E-05	2.45E-04	4294	
B00292865	5.74	3.78	17.40	8/27/2017	PT2.1	1.96	1.8E-06	1.66E-04	6092	
B00292866	6.29	5.53	18.20	8/27/2017	PT2.1	0.76	5.1E-07	2.95E-06	410114	
B00292867	5.85	4.92	19.10	8/27/2017	PT2.1	0.93	1.4E-06	1.20E-05	94250	
B00292868	6.43	5.82	19.50	8/27/2017	PT2.1	0.61	3.7E-07	1.51E-06	875637	
B00292869	6.08	5.58	19.70	8/27/2017	PT2.1	0.50	8.3E-07	2.63E-06	556018	
B00292870	6.35	5.50	19.70	8/27/2017	PT2.1	0.85	4.5E-07	3.16E-06	368244	
B00292871	5.78	5.77	19.70	8/27/2017	PT2.1	0.01	1.7E-06	1.70E-06	25868707	
B00292872	5.15	3.00	18.50	8/27/2017	PT2.1	2.15	7.1E-06	1.00E-03	1007	
B00292873		2.83	19.20	8/27/2017	PT2.1	-2.83	1.0E+00	1.48E-03	-1	dropped hcl before testing original pH
B00292874	4.88	2.71	19.30	8/27/2017	PT2.1	2.17	1.3E-05	1.95E-03	516	
B00292875	4.73	3.20	19.10	8/27/2017	PT2.1	1.53	1.9E-05	6.31E-04	1633	
B00292876	4.97	2.70	19.10	8/27/2017	PT2.1	2.27	1.1E-05	2.00E-03	504	
B00292877	5.01	2.86	19.50	8/27/2017	PT2.1	2.15	9.8E-06	1.38E-03	730	
B00292878	4.84	3.15	19.70	8/27/2017	PT2.1	1.69	1.4E-05	7.08E-04	1442	
B00292879	4.42	2.79	19.80	8/27/2017	PT2.1	1.63	3.8E-05	1.62E-03	631	2 samples with the same number
B00292880	5.07	3.59	19.30	8/27/2017	PT2.1	1.48	8.5E-06	2.57E-04	4024	
B00292881	4.52	3.00	19.70	8/27/2017	PT2.1	1.52	3.0E-05	1.00E-03	1031	
B00292882	5.52	3.25	19.00	8/27/2017	PT2.1	2.27	3.0E-06	5.62E-04	1788	
B00292883	4.68	3.61	19.00	8/27/2017	PT2.1	1.07	2.1E-05	2.45E-04	4453	
B00292884	4.86	2.68	18.50	8/27/2017	PT2.1	2.18	1.4E-05	2.09E-03	482	
B00292885	5.23	3.40	18.50	8/27/2017	PT2.1	1.83	5.9E-06	3.98E-04	2550	
B00292886	5.12	3.44	18.00	8/27/2017	PT2.1	1.68	7.6E-06	3.63E-04	2813	
B00292887	4.99	3.46	18.70	8/27/2017	PT2.1	1.53	1.0E-05	3.47E-04	2972	
B00292888	5.29	3.93	18.50	8/27/2017	PT2.1	1.36	5.1E-06	1.17E-04	8900	
B00292889	5.59	3.18	18.40	8/27/2017	PT2.1	2.41	2.6E-06	6.61E-04	1519	
B00292890	6.59	4.49	19.60	8/27/2017	PT2.1	2.10	2.6E-07	3.24E-05	31150	
B00292891	5.76	5.32	19.70	8/27/2017	PT2.1	0.44	1.7E-06	4.79E-06	328030	
_pH10STD	10.03		18.2	8/28/2017	PT2.1	10.03	9.3E-11	1.00E+00	1	
_pH4STD	4.05		21.3	8/28/2017	PT2.1	4.05	8.9E-05	1.00E+00	1	
_pH7STD	6.98		22	8/28/2017	PT2.1	6.98	1.0E-07	1.00E+00	1	
B00292892	5.14	4.63	24.60	8/28/2017	PT2.1	0.51	7.2E-06	2.34E-05	61736	
B00292893	5.79	5.17	23.50	8/28/2017	PT2.1	0.62	1.6E-06	6.76E-06	194590	
B00292894	6.28	5.13	21.90	8/28/2017	PT2.1	1.15	5.2E-07	7.41E-06	145174	
B00292895	6.52	4.97	22.00	8/28/2017	PT2.1	1.55	3.0E-07	1.07E-05	96032	
B00292896	6.72	5.83	21.80	8/28/2017	PT2.1	0.89	1.9E-07	1.48E-06	776059	
B00292897	6.42	4.49	20.40	8/28/2017	PT2.1	1.93	3.8E-07	3.24E-05	31270	
B00292898	6.23	5.23	20.70	8/28/2017	PT2.1	1.00	5.9E-07	5.89E-06	188694	
B00292899	6.33	4.78	20.70	8/28/2017	PT2.1	1.55	4.7E-07	1.66E-05	62003	
B00292900	7.42	4.73	22.90	8/28/2017	PT2.1	2.69	3.8E-08	1.86E-05	53813	
_pH4STD	4.15		23.5	8/28/2017	PT2.1	4.15	7.1E-05	1.00E+00	1	
_pH7STD	7.10		23.5	8/28/2017	PT2.1	7.10	7.9E-08	1.00E+00	1	
_pH10STD	10.21		23.9	8/28/2017	PT2.1	10.21	6.2E-11	1.00E+00	1	
B00292901	5.25	3.82	23.80	8/28/2017	PT2.1	1.43	5.6E-06	1.51E-04	6862	
B00292902	6.41	4.13	24.70	8/28/2017	PT2.1	2.28	3.9E-07	7.41E-05	13561	
B00292903	6.34	5.58	25.10	8/28/2017	PT2.1	0.76	4.6E-07	2.63E-06	460155	
B00292904	6.40	4.02	23.80	8/28/2017	PT2.1	2.38	4.0E-07	9.55E-05	10515	
B00292905	5.92	4.76	24.20	8/28/2017	PT2.1	1.16	1.2E-06	1.74E-05	61821	
B00292906	4.42	3.07	23.50	8/28/2017	PT2.1	1.35	3.8E-05	8.51E-04	1230	
B00292809	4.55	2.66	23.10	8/28/2017	PT2.1	1.89	2.8E-05	2.19E-03	463	
B00292810	4.83	2.82	22.80	8/28/2017	PT2.1	2.01	1.5E-05	1.51E-03	667	
B00292811	5.07	2.84	22.90	8/28/2017	PT2.1	2.23	8.5E-06	1.45E-03	696	
B00292812	6.43	5.32	22.70	8/28/2017	PT2.1	1.11	3.7E-07	4.79E-06	226513	
B00292813	4.38	2.87	22.90	8/28/2017	PT2.1	1.51	4.2E-05	1.35E-03	765	
B00292814	6.20	4.89	23.20	8/28/2017	PT2.1	1.31	6.3E-07	1.29E-05	81622	
B00292815	6.38	4.69	22.90	8/28/2017	PT2.1	1.69	4.2E-07	2.04E-05	49999	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
B00292816	6.31	4.63	22.50	8/28/2017	PT2.1	1.68	4.9E-07	2.34E-05	43568	
B00292817	6.40	4.29	22.40	8/28/2017	PT2.1	2.11	4.0E-07	5.13E-05	19651	
B00292818	6.74	4.54	22.20	8/28/2017	PT2.1	2.20	1.8E-07	2.88E-05	34894	
B00292819	6.50	4.06	22.40	8/28/2017	PT2.1	2.44	3.2E-07	8.71E-05	11523	
_GravelPitSTD	7.18	4.45	22.2	8/28/2017	PT2.1	2.73	6.6E-08	3.55E-05	28236	B00292820 gravpitstd_27 Blank
_pH4STD	4.19		22	8/28/2017	PT2.1	4.19	6.5E-05	1.00E+00	1	
_pH7STD	7.12		22.6	8/28/2017	PT2.1	7.12	7.6E-08	1.00E+00	1	
_pH10STD	10.23		22.3	8/28/2017	PT2.1	10.23	5.9E-11	1.00E+00	1	
B00292821	6.43	5.07	21.30	8/28/2017	PT2.1	1.36	3.7E-07	8.51E-06	122852	
B00292822	6.32	4.77	22.30	8/28/2017	PT2.1	1.55	4.8E-07	1.70E-05	60592	
B00292823	6.20	4.59	22.10	8/28/2017	PT2.1	1.61	6.3E-07	2.57E-05	39884	
B00292824	6.10	4.61	21.30	8/28/2017	PT2.1	1.49	7.9E-07	2.45E-05	42100	
B00292825	5.61	3.67	21.50	8/28/2017	PT2.1	1.94	2.5E-06	2.14E-04	4732	
B00292826	5.96	4.11	22.90	8/28/2017	PT2.1	1.85	1.1E-06	7.76E-05	13067	
D00007821	4.98	2.95	22.00	8/28/2017	PT2.1	2.03	1.0E-05	1.12E-03	900	
D00007822	4.87	2.63	21.40	8/28/2017	PT2.1	2.24	1.3E-05	2.34E-03	429	
D00007823	4.99	2.62	19.90	8/28/2017	PT2.1	2.37	1.0E-05	2.40E-03	419	
D00007824	4.75	2.62	20.40	8/28/2017	PT2.1	2.13	1.8E-05	2.40E-03	420	
D00007825	5.95	4.32	20.20	8/28/2017	PT2.1	1.63	1.1E-06	4.79E-05	21394	
D00007826	4.66	2.67	20.30	8/28/2017	PT2.1	1.99	2.2E-05	2.14E-03	473	
D00007827	4.70	3.84	20.40	8/28/2017	PT2.1	0.86	2.0E-05	1.45E-04	8026	
D00007911	5.89	4.22	20.40	8/28/2017	PT2.1	1.67	1.3E-06	6.03E-05	16958	
D00007912	5.82	5.30	20.20	8/28/2017	PT2.1	0.52	1.5E-06	5.01E-06	285852	
D00007913	6.27	4.99	20.20	8/28/2017	PT2.1	1.28	5.4E-07	1.02E-05	103136	
D00007914	6.37	5.29	20.70	8/28/2017	PT2.1	1.08	4.3E-07	5.13E-06	212674	
D00007915	6.19	4.83	20.20	8/28/2017	PT2.1	1.36	6.5E-07	1.48E-05	70694	
D00007916	4.99	3.67	20.70	8/28/2017	PT2.1	1.32	1.0E-05	2.14E-04	4912	
D00007917	5.38	3.78	20.00	8/28/2017	PT2.1	1.60	4.2E-06	1.66E-04	6181	
D00007918	5.13	3.08	20.10	8/28/2017	PT2.1	2.05	7.4E-06	8.32E-04	1213	
D00007919	4.66	2.63	19.30	8/28/2017	PT2.1	2.03	2.2E-05	2.34E-03	431	
_GravelPitSTD	6.97	4.58	19.8	8/28/2017	PT2.1	2.39	1.1E-07	2.63E-05	38174	D00007920 gravpitstd_28 Blank
_pH4STD	4.09		19.6	8/28/2017	PT2.1	4.09	8.1E-05	1.00E+00	1	
_pH7STD	7.05		19.8	8/28/2017	PT2.1	7.05	8.9E-08	1.00E+00	1	
_pH10STD	10.01		20.6	8/28/2017	PT2.1	10.01	9.8E-11	1.00E+00	1	
B00266357	5.99	2.79	19.30	8/28/2017	PT2.1	3.20	1.0E-06	1.62E-03	617	
B00266358	5.55	3.77	19.30	8/28/2017	PT2.1	1.78	2.8E-06	1.70E-04	5988	
B00266359	4.89	2.78	19.90	8/28/2017	PT2.1	2.11	1.3E-05	1.66E-03	607	
_GravelPitSTD	6.76	4.15	20.3	8/28/2017	PT2.1	2.61	1.7E-07	7.08E-05	14160	B00266360 Gravpitstd_29 Blank Gravpitstd_29
_pH4STD	4.07		19.3	8/28/2017	PT2.1	4.07	8.5E-05	1.00E+00	1	
_pH7STD	7.06		19.6	8/28/2017	PT2.1	7.06	8.7E-08	1.00E+00	1	
_pH10STD	10.01		20.6	8/28/2017	PT2.1	10.01	9.8E-11	1.00E+00	1	
B00266361	5.74	3.17	20.60	8/28/2017	PT2.1	2.57	1.8E-06	6.76E-04	1483	
B00266362	6.36	5.31	20.60	8/28/2017	PT2.1	1.05	4.4E-07	4.90E-06	224151	
B00266363	5.03	2.89	20.90	8/28/2017	PT2.1	2.14	9.3E-06	1.29E-03	782	
B00266364	4.66	2.72	20.70	8/28/2017	PT2.1	1.94	2.2E-05	1.91E-03	531	
B00266365	4.53	2.78	21.00	8/28/2017	PT2.1	1.75	3.0E-05	1.66E-03	613	
B00266366	4.88	2.65	20.80	8/28/2017	PT2.1	2.23	1.3E-05	2.24E-03	449	
B00266367	4.86	3.05	21.40	8/28/2017	PT2.1	1.81	1.4E-05	8.91E-04	1140	
B00266368	4.87	2.78	21.20	8/28/2017	PT2.1	2.09	1.3E-05	1.66E-03	607	
B00266369	4.15	2.46	21.50	8/28/2017	PT2.1	1.69	7.1E-05	3.47E-03	294	
B00266370	6.18	4.33	21.00	8/28/2017	PT2.1	1.85	6.6E-07	4.68E-05	21686	
B00266371	6.25	5.10	21.40	8/28/2017	PT2.1	1.15	5.6E-07	7.94E-06	135484	
B00266372	6.21	5.05	21.10	8/28/2017	PT2.1	1.16	6.2E-07	8.91E-06	120541	
B00266373	6.30	4.52	20.90	8/28/2017	PT2.1	1.78	5.0E-07	3.02E-05	33672	
B00266374	6.58	5.77	20.90	8/28/2017	PT2.1	0.81	2.6E-07	1.70E-06	696759	
B00266375	6.36	4.15	21.40	8/28/2017	PT2.1	2.21	4.4E-07	7.08E-05	14213	
B00266376	6.38	4.94	21.20	8/28/2017	PT2.1	1.44	4.2E-07	1.15E-05	90378	
B00266377	5.30	4.09	22.10	8/28/2017	PT2.1	1.21	5.0E-06	8.13E-05	13111	
B00266353	6.08	4.67	21.40	8/29/2017	PT2.1	1.41	8.3E-07	2.14E-05	48667	
B00266354	5.62	4.04	21.60	8/29/2017	PT2.1	1.58	2.4E-06	9.12E-05	11261	
B00266355	6.86	5.24	22.50	8/29/2017	PT2.1	1.62	1.4E-07	5.75E-06	178051	
B00266356	5.96	4.44	21.90	8/29/2017	PT2.1	1.52	1.1E-06	3.63E-05	28400	
B00266378	6.65	5.52	21.50	8/29/2017	PT2.1	1.13	2.2E-07	3.02E-06	357644	
B00266379	7.17	6.40	20.40	8/29/2017	PT2.1	0.77	6.8E-08	3.98E-07	3025729	
B00266380	4.93	3.41	21.10	8/29/2017	PT2.1	1.52	1.2E-05	3.89E-04	2650	
B00266381	4.80	2.81	21.00	8/29/2017	PT2.1	1.99	1.6E-05	1.55E-03	652	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
B00266382	3.06	2.50	21.00	8/29/2017	PT2.1	0.56	8.7E-04	3.16E-03	436	
B00266383	4.61	3.83	20.30	8/29/2017	PT2.1	0.78	2.5E-05	1.48E-04	8106	
B00266384	4.80	3.83	20.30	8/29/2017	PT2.1	0.97	1.6E-05	1.48E-04	7572	
B00266385	5.05	2.65	20.60	8/29/2017	PT2.1	2.40	8.9E-06	2.24E-03	448	
B00266386	4.84	2.84	20.10	8/29/2017	PT2.1	2.00	1.4E-05	1.45E-03	699	
B00266387	4.88	2.72	20.60	8/29/2017	PT2.1	2.16	1.3E-05	1.91E-03	528	
B00266388	5.19	4.04	20.50	8/29/2017	PT2.1	1.15	6.5E-06	9.12E-05	11800	
B00266389	4.69	2.70	20.60	8/29/2017	PT2.1	1.99	2.0E-05	2.00E-03	506	
B00266390	4.90	2.57	20.40	8/29/2017	PT2.1	2.33	1.3E-05	2.69E-03	373	
B00266391	4.83	3.42	22.60	8/29/2017	PT2.1	1.41	1.5E-05	3.80E-04	2737	
B00266392	4.93	2.71	21.90	8/29/2017	PT2.1	2.22	1.2E-05	1.95E-03	516	
B00266393	5.35	3.84	22.40	8/29/2017	PT2.1	1.51	4.5E-06	1.45E-04	7139	
B00266394	4.75	3.19	21.60	8/29/2017	PT2.1	1.56	1.8E-05	6.46E-04	1593	
B00266395	4.47	3.08	22.20	8/29/2017	PT2.1	1.39	3.4E-05	8.32E-04	1253	
B00266396	4.99	2.73	21.60	8/29/2017	PT2.1	2.26	1.0E-05	1.86E-03	540	
B00266397	4.63	4.03	23.20	8/29/2017	PT2.1	0.60	2.3E-05	9.33E-05	14310	
B00266398		4.63	21.30	8/29/2017	PT2.1	-4.63	1.0E+00	2.34E-05	-1	Put the acid in too soon. No data for sample pH without acid.
B00266399	4.54	3.01	21.90	8/29/2017	PT2.1	1.53	2.9E-05	9.77E-04	1054	
_GravelPitSTD	7.06	4.68		8/29/2017	PT2.1	2.38	8.7E-08	2.09E-05	48063	B00266400 GravPitStd_30
B00292501	4.83	2.80	21.80	8/29/2017	PT2.1	2.03	1.5E-05	1.58E-03	637	
B00292502	5.21	3.26	22.00	8/29/2017	PT2.1	1.95	6.2E-06	5.50E-04	1840	
B00292503	4.97	3.21	21.90	8/29/2017	PT2.1	1.76	1.1E-05	6.17E-04	1650	
B00292504	5.02	2.70	25.90	8/29/2017	PT2.1	2.32	9.5E-06	2.00E-03	504	
B00292505	4.52	2.85	26.60	8/29/2017	PT2.1	1.67	3.0E-05	1.41E-03	723	
B00292506	5.33	2.97	25.80	8/29/2017	PT2.1	2.36	4.7E-06	1.07E-03	937	
B00292507	5.32	3.48	25.70	8/29/2017	PT2.1	1.84	4.8E-06	3.31E-04	3064	
B00292508	4.92	3.31	24.70	8/29/2017	PT2.1	1.61	1.2E-05	4.90E-04	2093	
B00292509	4.85	3.04	24.40	8/29/2017	PT2.1	1.81	1.4E-05	9.12E-04	1114	
B00292510	4.51	3.37	24.40	8/29/2017	PT2.1	1.14	3.1E-05	4.27E-04	2527	
B00292511	4.52	2.97	24.30	8/29/2017	PT2.1	1.55	3.0E-05	1.07E-03	960	
B00292512	4.75	2.51	24.30	8/29/2017	PT2.1	2.24	1.8E-05	3.09E-03	325	
B00292513	4.74	3.10	24.20	8/29/2017	PT2.1	1.64	1.8E-05	7.94E-04	1288	
B00292514	4.57	3.06	23.70	8/29/2017	PT2.1	1.51	2.7E-05	8.71E-04	1185	
B00292515	6.22	4.62	23.40	8/29/2017	PT2.1	1.60	6.0E-07	2.40E-05	42761	
B00292516	6.22	4.62	23.40	8/29/2017	PT2.1	1.60	6.0E-07	2.40E-05	42761	
B00292517	4.71	3.93	23.80	8/29/2017	PT2.1	0.78	1.9E-05	1.17E-04	10205	
B00292518	4.76	3.10	23.30	8/29/2017	PT2.1	1.66	1.7E-05	7.94E-04	1287	3 drops of acid
B00292519	4.99	2.93	22.80	8/29/2017	PT2.1	2.06	1.0E-05	1.17E-03	859	2 drops of acid
B00292520	5.33	4.13	22.50	8/29/2017	PT2.1	1.20	4.7E-06	7.41E-05	14398	
B00292521	5.20	3.40	22.40	8/29/2017	PT2.1	1.80	6.3E-06	3.98E-04	2552	
B00292522	5.31	4.04	22.10	8/29/2017	PT2.1	1.27	4.9E-06	9.12E-05	11587	
B00292523	4.89	3.37	22.10	8/29/2017	PT2.1	1.52	1.3E-05	4.27E-04	2417	
B00292524	4.89	2.62	22.00	8/29/2017	PT2.1	2.27	1.3E-05	2.40E-03	419	
B00292525	4.85	3.15	21.50	8/29/2017	PT2.1	1.70	1.4E-05	7.08E-04	1441	
B00292526	4.92	3.29	22.50	8/29/2017	PT2.1	1.63	1.2E-05	5.13E-04	1997	
B00292527	4.95	2.83	21.00	8/29/2017	PT2.1	2.12	1.1E-05	1.48E-03	681	
B00292528	5.20	2.95	20.90	8/29/2017	PT2.1	2.25	6.3E-06	1.12E-03	896	
B00292529	5.04	3.39	21.20	8/29/2017	PT2.1	1.65	9.1E-06	4.07E-04	2511	
B00292530	5.06	3.29	21.10	8/29/2017	PT2.1	1.77	8.7E-06	5.13E-04	1984	
B00292531	4.72	3.42	19.90	8/29/2017	PT2.1	1.30	1.9E-05	3.80E-04	2769	
B00292532	4.85	2.33	19.90	8/29/2017	PT2.1	2.52	1.4E-05	4.68E-03	214	
B00292533	4.85	2.39	20.90	8/29/2017	PT2.1	2.46	1.4E-05	4.07E-03	246	
B00292534	4.68	2.64	20.60	8/29/2017	PT2.1	2.04	2.1E-05	2.29E-03	441	
B00292535	5.65	3.32	20.70	8/29/2017	PT2.1	2.33	2.2E-06	4.79E-04	2099	
B00292536	4.88	2.57	20.90	8/29/2017	PT2.1	2.31	1.3E-05	2.69E-03	373	
B00292537	5.22	2.65	20.60	8/29/2017	PT2.1	2.57	6.0E-06	2.24E-03	448	
B00292538	4.88	2.73	19.30	8/29/2017	PT2.1	2.15	1.3E-05	1.86E-03	541	3 drops of acid
B00292539	5.31	3.01	19.00	8/29/2017	PT2.1	2.30	4.9E-06	9.77E-04	1028	
B00292540				8/29/2017	PT2.1					spilled sample
B00292541	5.04	2.65	19.40	8/29/2017	PT2.1	2.39	9.1E-06	2.24E-03	449	
B00292542	5.10	2.66	19.50	8/29/2017	PT2.1	2.44	7.9E-06	2.19E-03	459	
B00292543	5.15	3.69	19.70	8/29/2017	PT2.1	1.46	7.1E-06	2.04E-04	5074	
B00292544	4.94	2.77	19.50	8/29/2017	PT2.1	2.17	1.1E-05	1.70E-03	593	
B00292545	6.50	4.15	19.50	8/29/2017	PT2.1	2.35	3.2E-07	7.08E-05	14189	
B00292546	6.44	5.44	20.40	8/29/2017	PT2.1	1.00	3.6E-07	3.63E-06	306025	
B00292547	5.36	4.29	19.90	8/29/2017	PT2.1	1.07	4.4E-06	5.13E-05	21312	
B00292548	4.85	2.64	19.30	8/29/2017	PT2.1	2.21	1.4E-05	2.29E-03	439	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
B00292549	4.82	3.63	19.90	8/29/2017	PT2.1	1.19	1.5E-05	2.34E-04	4560	
B00292550	4.93	2.92	20.20	8/29/2017	PT2.1	2.01	1.2E-05	1.20E-03	840	
B00292551	4.74	3.35	20.60	8/29/2017	PT2.1	1.39	1.8E-05	4.47E-04	2334	
B00292552	5.89	3.57	20.40	8/29/2017	PT2.1	2.32	1.3E-06	2.69E-04	3733	
B00292553	4.94	2.79	20.50	8/29/2017	PT2.1	2.15	1.1E-05	1.62E-03	621	
B00292554	5.00	3.62	20.80	8/29/2017	PT2.1	1.38	1.0E-05	2.40E-04	4350	
B00292555	4.86	3.63	20.70	8/29/2017	PT2.1	1.23	1.4E-05	2.34E-04	4533	
B00292556	4.82	3.88	20.80	8/29/2017	PT2.1	0.94	1.5E-05	1.32E-04	8570	
B00292557	5.00	2.56	20.30	8/29/2017	PT2.1	2.44	1.0E-05	2.75E-03	364	
B00292558	4.85	2.75	20.40	8/29/2017	PT2.1	2.10	1.4E-05	1.78E-03	567	
B00292559	4.96	2.43	20.20	8/29/2017	PT2.1	2.53	1.1E-05	3.72E-03	270	
B00292560	6.96	2.99	20.10	8/29/2017	PT2.1	3.97	1.1E-07	1.02E-03	977	
B00292561	5.50	3.14	19.00	8/29/2017	PT2.1	2.36	3.2E-06	7.24E-04	1386	
B00292562	5.12	3.67	20.00	8/29/2017	PT2.1	1.45	7.6E-06	2.14E-04	4849	
B00292563	4.79	2.65	20.00	8/29/2017	PT2.1	2.14	1.6E-05	2.24E-03	450	
B00292564	5.80	4.57	19.90	8/29/2017	PT2.1	1.23	1.6E-06	2.69E-05	39478	
B00292565	4.71	2.42	20.30	8/29/2017	PT2.1	2.29	1.9E-05	3.80E-03	264	
B00292566	5.33	4.51	20.70	8/29/2017	PT2.1	0.82	4.7E-06	3.09E-05	38131	
B00292567	5.24	2.91	20.20	8/29/2017	PT2.1	2.33	5.8E-06	1.23E-03	817	
B00292568	4.39	2.72	20.30	8/29/2017	PT2.1	1.67	4.1E-05	1.91E-03	536	
_pH10STD	10.04		24.7	8/29/2017	PT2.1	10.04	9.1E-11	1.00E+00	1	
_pH10STD	10.19			8/29/2017	PT2.1	10.19	6.5E-11	1.00E+00	1	
_pH10STD	10.00		19.0	8/29/2017	PT2.1	10.00	1.0E-10	1.00E+00	1	
_pH4STD	4.03		24.03	8/29/2017	PT2.1	4.03	9.3E-05	1.00E+00	1	
_pH4STD	4.17			8/29/2017	PT2.1	4.17	6.8E-05	1.00E+00	1	
_pH7STD	7.01		24.8	8/29/2017	PT2.1	7.01	9.8E-08	1.00E+00	1	
_pH7STD	7.09			8/29/2017	PT2.1	7.09	8.1E-08	1.00E+00	1	
_pH7STD	7.01		19.4	8/29/2017	PT2.1	7.01	9.8E-08	1.00E+00	1	
_pH4STD	4.07		19.4	8/29/2017	PT2.1	4.07	8.5E-05	1.00E+00	1	
_pH4STD	4.04	-	13.3	8/30/2017	PT2.1	####	9.1E-05	#VALUE!	#VALUE!	
_pH7STD	7.06	-	13.0	8/30/2017	PT2.1	####	8.7E-08	#VALUE!	#VALUE!	
_pH10STD	10.06	-	13.2	8/30/2017	PT2.1	####	8.7E-11	#VALUE!	#VALUE!	
B00292569	5.70	4.79	14.20	8/30/2017	PT2.1	0.91	2.0E-06	1.62E-05	70309	
B00292571	6.15	4.27	13.50	8/30/2017	PT2.1	1.88	7.1E-07	5.37E-05	18870	
B00292572	5.42	3.91	14.50	8/30/2017	PT2.1	1.51	3.8E-06	1.23E-04	8388	
B00292573	6.73	5.37	14.50	8/30/2017	PT2.1	1.36	1.9E-07	4.27E-06	245123	
B00292574	5.11	3.51	14.40	8/30/2017	PT2.1	1.60	7.8E-06	3.09E-04	3319	
B00292575	5.57	3.24	14.60	8/30/2017	PT2.1	2.33	2.7E-06	5.75E-04	1746	
B00292576	4.47	3.05	14.70	8/30/2017	PT2.1	1.42	3.4E-05	8.91E-04	1166	
B00292577	6.24	4.32	14.30	8/30/2017	PT2.1	1.92	5.8E-07	4.79E-05	21147	
B00292578	4.63	3.15	14.50	8/30/2017	PT2.1	1.48	2.3E-05	7.08E-04	1461	
B00292579	5.39	3.69	14.30	8/30/2017	PT2.1	1.70	4.1E-06	2.04E-04	4998	
B00292580	4.63	3.55	14.30	8/30/2017	PT2.1	1.08	2.3E-05	2.82E-04	3870	
B00292581	4.75	3.22	14.50	8/30/2017	PT2.1	1.53	1.8E-05	6.03E-04	1710	
B00292582	5.05	3.24	14.50	8/30/2017	PT2.1	1.81	8.9E-06	5.75E-04	1765	
B00292583	5.87	4.26	14.50	8/30/2017	PT2.1	1.61	1.3E-06	5.50E-05	18655	
B00292584	5.85	2.75	14.30	8/30/2017	PT2.1	3.10	1.4E-06	1.78E-03	563	
B00292585	5.45	4.50	14.90	8/30/2017	PT2.1	0.95	3.5E-06	3.16E-05	35619	
B00292586	6.80	5.82	14.90	8/30/2017	PT2.1	0.98	1.6E-07	1.51E-06	737968	
B00292587	5.66	3.76	14.30	8/30/2017	PT2.1	1.90	2.2E-06	1.74E-04	5828	
B00292588	5.73	3.94	14.30	8/30/2017	PT2.1	1.79	1.9E-06	1.15E-04	8853	
B00292589	5.42	3.99	14.30	8/30/2017	PT2.1	1.43	3.8E-06	1.02E-04	10149	
B00292590	5.71	4.49	14.40	8/30/2017	PT2.1	1.22	1.9E-06	3.24E-05	32884	
B00292591	6.46	5.63	15.30	8/30/2017	PT2.1	0.83	3.5E-07	2.34E-06	500628	
B00292592	5.66	3.85	14.40	8/30/2017	PT2.1	1.81	2.2E-06	1.41E-04	7191	
B00292593	5.58	4.25	14.30	8/30/2017	PT2.1	1.33	2.6E-06	5.62E-05	18655	
B00292594	4.53	2.79	14.30	8/30/2017	PT2.1	1.74	3.0E-05	1.62E-03	628	
B00292595	6.35	5.49	14.80	8/30/2017	PT2.1	0.86	4.5E-07	3.24E-06	358519	
B00292596	4.82	3.37	14.20	8/30/2017	PT2.1	1.45	1.5E-05	4.27E-04	2430	
B00292597	6.46	4.35	14.10	8/30/2017	PT2.1	2.11	3.5E-07	4.47E-05	22562	
B00292598	4.98	3.16	14.20	8/30/2017	PT2.1	1.82	1.0E-05	6.92E-04	1468	
B00292599	5.67	4.29	14.00	8/30/2017	PT2.1	1.38	2.1E-06	5.13E-05	20347	
B00292600	4.97	2.69	14.00	8/30/2017	PT2.1	2.28	1.1E-05	2.04E-03	492	
B00292601	4.59	2.79	14.60	8/30/2017	PT2.1	1.80	2.6E-05	1.62E-03	627	
B00292602	5.30	4.16	15.20	8/30/2017	PT2.1	1.14	5.0E-06	6.92E-05	15583	
B00292603	6.40	5.03	15.30	8/30/2017	PT2.1	1.37	4.0E-07	9.33E-06	111926	
B00292604	6.46	4.48	15.30	8/30/2017	PT2.1	1.98	3.5E-07	3.31E-05	30519	
B00292605	6.30	3.89	15.60	8/30/2017	PT2.1	2.41	5.0E-07	1.29E-04	7793	
B00292606	5.74	4.45	16.30	8/30/2017	PT2.1	1.29	1.8E-06	3.55E-05	29707	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
B00292607	5.83	4.80	16.50	8/30/2017	PT2.1	1.03	1.5E-06	1.58E-05	69590	
B00292608	6.04	3.25	16.70	8/30/2017	PT2.1	2.79	9.1E-07	5.62E-04	1781	
B00292609	5.74	3.59	17.00	8/30/2017	PT2.1	2.15	1.8E-06	2.57E-04	3918	
B00292610	5.73	3.59	16.20	8/30/2017	PT2.1	2.14	1.9E-06	2.57E-04	3919	
B00292611	5.76	3.38	16.40	8/30/2017	PT2.1	2.38	1.7E-06	4.17E-04	2409	
B00292612	5.88	3.58	16.50	8/30/2017	PT2.1	2.30	1.3E-06	2.63E-04	3821	
B00292613	6.52	5.00	17.00	8/30/2017	PT2.1	1.52	3.0E-07	1.00E-05	103114	
B00292614	6.50	5.83	18.30	8/30/2017	PT2.1	0.67	3.2E-07	1.48E-06	859933	
B00292615	5.04	3.86	17.90	8/30/2017	PT2.1	1.18	9.1E-06	1.38E-04	7757	
B00292616	4.96	3.64	17.50	8/30/2017	PT2.1	1.32	1.1E-05	2.29E-04	4585	
B00292617	4.81	3.92	18.00	8/30/2017	PT2.1	0.89	1.5E-05	1.20E-04	9548	
B00292618	6.21	4.64	17.90	8/30/2017	PT2.1	1.57	6.2E-07	2.29E-05	44859	
B00292619	5.41	4.62	18.70	8/30/2017	PT2.1	0.79	3.9E-06	2.40E-05	49756	
B00292620	4.94	4.47	19.00	8/30/2017	PT2.1	0.47	1.1E-05	3.39E-05	44637	Definetly put in Acid (2nd Drop returned 4.21)
B00292621	5.70	3.76	19.20	8/30/2017	PT2.1	1.94	2.0E-06	1.74E-04	5821	
_InstruCAL	6.99		22.2	8/30/2017	PT2.1	6.99	1.0E-07	1.00E+00	1	
B00292622	5.32	4.11	23.40	8/30/2017	PT2.1	1.21	4.8E-06	7.76E-05	13729	
B00292623	5.27	3.46	22.90	8/30/2017	PT2.1	1.81	5.4E-06	3.47E-04	2929	
B00292624	5.18	3.51	22.50	8/30/2017	PT2.1	1.67	6.6E-06	3.09E-04	3307	
B00292625	4.41	2.31	22.30	8/30/2017	PT2.1	2.10	3.9E-05	4.90E-03	206	
B00292626	6.08	5.12	23.40	8/30/2017	PT2.1	0.96	8.3E-07	7.59E-06	148060	
B00292627	4.28	2.71	22.90	8/30/2017	PT2.1	1.57	5.2E-05	1.95E-03	527	
B00292628	4.09	2.22	23.00	8/30/2017	PT2.1	1.87	8.1E-05	6.03E-03	168	
B00292629	5.20	3.84	23.10	8/30/2017	PT2.1	1.36	6.3E-06	1.45E-04	7234	
B00292630	4.50	2.66	22.70	8/30/2017	PT2.1	1.84	3.2E-05	2.19E-03	464	
B00292631	6.04	5.23	23.00	8/30/2017	PT2.1	0.81	9.1E-07	5.89E-06	200947	
B00292632	6.10	5.34	23.10	8/30/2017	PT2.1	0.76	7.9E-07	4.57E-06	264792	
B00292633	5.61	4.51	23.20	8/30/2017	PT2.1	1.10	2.5E-06	3.09E-05	35152	
B00292634	5.54	4.49	22.70	8/30/2017	PT2.1	1.05	2.9E-06	3.24E-05	33927	
B00292635	4.66	3.45	22.70	8/30/2017	PT2.1	1.21	2.2E-05	3.55E-04	3004	
B00292636	6.13	2.96	22.20	8/30/2017	PT2.1	3.17	7.4E-07	1.10E-03	913	
B00292637	5.89	4.86	22.70	8/30/2017	PT2.1	1.03	1.3E-06	1.38E-05	79900	
B00292638	6.14	4.21	22.10	8/30/2017	PT2.1	1.93	7.2E-07	6.17E-05	16411	
B00292639	5.32	3.82	22.10	8/30/2017	PT2.1	1.50	4.8E-06	1.51E-04	6823	
B00292640				8/30/2017	PT2.1					No sample
B00292641	5.27	3.56	2.22	8/30/2017	PT2.1	1.71	5.4E-06	2.75E-04	3703	
B00292642	6.08	4.57	22.30	8/30/2017	PT2.1	1.51	8.3E-07	2.69E-05	38338	
B00292643	6.48	3.18	21.90	8/30/2017	PT2.1	3.30	3.3E-07	6.61E-04	1514	
B00292644	7.02	5.06	21.90	8/30/2017	PT2.1	1.96	9.5E-08	8.71E-06	116088	
B00292645	6.46	4.00	22.10	8/30/2017	PT2.1	2.46	3.5E-07	1.00E-04	10035	
B00292646	5.76	4.35	22.00	8/30/2017	PT2.1	1.41	1.7E-06	4.47E-05	23293	
B00292647	5.88	4.19	22.10	8/30/2017	PT2.1	1.69	1.3E-06	6.46E-05	15811	
B00292648	6.05	3.72	21.90	8/30/2017	PT2.1	2.33	8.9E-07	1.91E-04	5273	
B00292649	6.19	4.93	22.50	8/30/2017	PT2.1	1.26	6.5E-07	1.17E-05	90063	
B00292650	5.82	4.77	22.80	8/30/2017	PT2.1	1.05	1.5E-06	1.70E-05	64646	
B00292651	6.25	5.91	23.10	8/30/2017	PT2.1	0.34	5.6E-07	1.23E-06	1497169	
B00292652	6.21	5.09	21.70	8/30/2017	PT2.1	1.12	6.2E-07	8.13E-06	133125	
B00292653	6.11	5.16	21.50	8/30/2017	PT2.1	0.95	7.8E-07	6.92E-06	162812	
B00292654	6.41	5.05	21.30	8/30/2017	PT2.1	1.36	3.9E-07	8.91E-06	117323	
B00292655	4.79	3.17	20.60	8/30/2017	PT2.1	1.62	1.6E-05	6.76E-04	1515	
B00292656	5.65	4.02	20.70	8/30/2017	PT2.1	1.63	2.2E-06	9.55E-05	10723	
B00292657	5.01		19.90	8/30/2017	PT2.1	5.01	9.8E-06	1.00E+00	1	
B00292658	5.76	2.80	19.70	8/30/2017	PT2.1	2.96	1.7E-06	1.58E-03	632	
B00292659	4.83	2.70	19.70	8/30/2017	PT2.1	2.13	1.5E-05	2.00E-03	505	
B00292660	4.76	2.37	19.40	8/30/2017	PT2.1	2.39	1.7E-05	4.27E-03	235	
B00292661	4.82	3.61	19.50	8/30/2017	PT2.1	1.21	1.5E-05	2.45E-04	4341	
B00292662	4.83	3.33	19.00	8/30/2017	PT2.1	1.50	1.5E-05	4.68E-04	2208	
B00292663	4.46	3.30	19.30	8/30/2017	PT2.1	1.16	3.5E-05	5.01E-04	2144	
B00292664	4.65	2.52	17.40	8/30/2017	PT2.1	2.13	2.2E-05	3.02E-03	334	
B00292665	3.94	2.59	17.80	8/30/2017	PT2.1	1.35	1.1E-04	2.57E-03	407	
B00292666	4.57	2.63	17.60	8/30/2017	PT2.1	1.94	2.7E-05	2.34E-03	432	
B00292667	4.24	2.83	18.00	8/30/2017	PT2.1	1.41	5.8E-05	1.48E-03	703	
B00292668	5.02	2.31	17.50	8/30/2017	PT2.1	2.71	9.5E-06	4.90E-03	205	
B00292669	4.83	2.55	17.60	8/30/2017	PT2.1	2.28	1.5E-05	2.82E-03	357	
B00292670	4.44	3.66	17.50	8/30/2017	PT2.1	0.78	3.6E-05	2.19E-04	5480	
B00292671	4.44	3.02	16.90	8/30/2017	PT2.1	1.42	3.6E-05	9.55E-04	1089	
B00292672	4.41	2.54	17.00	8/30/2017	PT2.1	1.87	3.9E-05	2.88E-03	351	
B00292673	4.74	3.77	17.40	8/30/2017	PT2.1	0.97	1.8E-05	1.70E-04	6595	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
B00292674	5.04	4.03	17.70	8/30/2017	PT2.1	1.01	9.1E-06	9.33E-05	11876	
B00292675	6.19	4.15	17.10	8/30/2017	PT2.1	2.04	6.5E-07	7.08E-05	14255	
B00292676	5.81	2.91	16.10	8/30/2017	PT2.1	2.90	1.5E-06	1.23E-03	814	
B00292677	5.84	4.68	16.70	8/30/2017	PT2.1	1.16	1.4E-06	2.09E-05	51420	
B00292678	5.99	3.85	16.50	8/30/2017	PT2.1	2.14	1.0E-06	1.41E-04	7131	
B00292679	5.38	3.70	16.90	8/30/2017	PT2.1	1.68	4.2E-06	2.00E-04	5119	
B00292680	6.91	4.13	16.20	8/30/2017	PT2.1	2.78	1.2E-07	7.41E-05	13512	Blank
B00292681	4.35	2.61	16.90	8/30/2017	PT2.1	1.74	4.5E-05	2.45E-03	415	
B00292682	4.43	2.98	16.50	8/30/2017	PT2.1	1.45	3.7E-05	1.05E-03	990	
B00292683	4.83	2.32	16.30	8/30/2017	PT2.1	2.51	1.5E-05	4.79E-03	210	
B00292684	4.35	3.01	16.60	8/30/2017	PT2.1	1.34	4.5E-05	9.77E-04	1072	
B00292685	5.33	3.71	16.70	8/30/2017	PT2.1	1.62	4.7E-06	1.95E-04	5255	
_pH4STD	4.07		6.2	8/31/2017	PT2.1	4.07	8.5E-05	1.00E+00	1	
_pH7STD	7.02		6.1	8/31/2017	PT2.1	7.02	9.5E-08	1.00E+00	1	
_pH10STD	10.05		6.2	8/31/2017	PT2.1	10.05	8.9E-11	1.00E+00	1	
B00292686	7.11	2.97	6.90	8/31/2017	PT2.1	4.14	7.8E-08	1.07E-03	933	
B00292687	5.03	4.63	8.30	8/31/2017	PT2.1	0.40	9.3E-06	2.34E-05	70873	
B00292688	4.99	2.92	7.70	8/31/2017	PT2.1	2.07	1.0E-05	1.20E-03	839	
B00292689	5.12	3.61	8.30	8/31/2017	PT2.1	1.51	7.6E-06	2.45E-04	4204	
B00292690	5.18	3.88	8.70	8/31/2017	PT2.1	1.30	6.6E-06	1.32E-04	7986	
B00292691	5.05	3.03	8.40	8/31/2017	PT2.1	2.02	8.9E-06	9.33E-04	1082	
B00292692	4.94	2.99	8.90	8/31/2017	PT2.1	1.95	1.1E-05	1.02E-03	988	
B00292693	5.07	3.11	8.60	8/31/2017	PT2.1	1.96	8.5E-06	7.76E-04	1303	
B00292694	4.34	3.47	9.30	8/31/2017	PT2.1	0.87	4.6E-05	3.39E-04	3411	
B00292695	5.09	2.56	8.80	8/31/2017	PT2.1	2.53	8.1E-06	2.75E-03	364	
B00292696	4.75	2.63	9.10	8/31/2017	PT2.1	2.12	1.8E-05	2.34E-03	430	
B00292697	4.64	3.34	9.70	8/31/2017	PT2.1	1.30	2.3E-05	4.57E-04	2303	
B00292698	4.79	2.63	9.60	8/31/2017	PT2.1	2.16	1.6E-05	2.34E-03	430	
B00292699	4.50	2.68	9.80	8/31/2017	PT2.1	1.82	3.2E-05	2.09E-03	486	
B00292700	4.57	2.84	9.70	8/31/2017	PT2.1	1.73	2.7E-05	1.45E-03	705	
B00292701	4.78	2.66	9.80	8/31/2017	PT2.1	2.12	1.7E-05	2.19E-03	461	
B00292702	5.27	3.03	10.30	8/31/2017	PT2.1	2.24	5.4E-06	9.33E-04	1078	
B00292703	4.85	2.52	10.60	8/31/2017	PT2.1	2.33	1.4E-05	3.02E-03	333	
B00292704	4.62	2.71	11.10	8/31/2017	PT2.1	1.91	2.4E-05	1.95E-03	519	
B00292705	4.61	2.58	11.30	8/31/2017	PT2.1	2.03	2.5E-05	2.63E-03	384	
B00292706	4.46	3.14	12.10	8/31/2017	PT2.1	1.32	3.5E-05	7.24E-04	1450	
B00292707	5.09	2.53	12.30	8/31/2017	PT2.1	2.56	8.1E-06	2.95E-03	340	
B00292708	5.37	3.54	12.50	8/31/2017	PT2.1	1.83	4.3E-06	2.88E-04	3519	
B00292709	5.03	2.62	12.50	8/31/2017	PT2.1	2.41	9.3E-06	2.40E-03	418	
B00292710	5.31	4.09	13.30	8/31/2017	PT2.1	1.22	4.9E-06	8.13E-05	13092	
B00292711	6.63	5.48	16.70	8/31/2017	PT2.1	1.15	2.3E-07	3.31E-06	325004	
B00292712	6.37	5.04	17.10	8/31/2017	PT2.1	1.33	4.3E-07	9.12E-06	115028	
B00292713	5.12	4.06	16.50	8/31/2017	PT2.1	1.06	7.6E-06	8.71E-05	12577	
B00292714	4.62	3.01	16.30	8/31/2017	PT2.1	1.61	2.4E-05	9.77E-04	1049	
B00292715	5.27	4.28	17.10	8/31/2017	PT2.1	0.99	5.4E-06	5.25E-05	21227	
B00292716	4.91	3.67	17.00	8/31/2017	PT2.1	1.24	1.2E-05	2.14E-04	4963	
B00292717	5.25	4.17	16.20	8/31/2017	PT2.1	1.08	5.6E-06	6.76E-05	16133	
B00292718	6.12	4.58	16.60	8/31/2017	PT2.1	1.54	7.6E-07	2.63E-05	39148	
B00292719	6.25	3.16	16.40	8/31/2017	PT2.1	3.09	5.6E-07	6.92E-04	1447	
B00292720	6.33	4.77	16.90	8/31/2017	PT2.1	1.56	4.7E-07	1.70E-05	60552	
B00292721	6.46	5.03	17.20	8/31/2017	PT2.1	1.43	3.5E-07	9.33E-06	111287	
B00292722	4.61	2.85	16.40	8/31/2017	PT2.1	1.76	2.5E-05	1.41E-03	720	
B00292723	6.02	5.29	17.90	8/31/2017	PT2.1	0.73	9.5E-07	5.13E-06	239600	
B00292724				8/31/2017	PT2.1	0.00	1.0E+00	1.00E+00	#DIV/0!	missing sample
B00292725	6.05	4.03	17.00	8/31/2017	PT2.1	2.02	8.9E-07	9.33E-05	10819	
B00292726	5.95	4.30	16.90	8/31/2017	PT2.1	1.65	1.1E-06	5.01E-05	20410	
B00292727	6.16	4.86	17.30	8/31/2017	PT2.1	1.30	6.9E-07	1.38E-05	76266	
B00292728	5.60	4.03	16.30	8/31/2017	PT2.1	1.57	2.5E-06	9.33E-05	11012	
B00292729	5.95	4.13	16.40	8/31/2017	PT2.1	1.82	1.1E-06	7.41E-05	13697	
B00292730	5.13	2.62	16.40	8/31/2017	PT2.1	2.51	7.4E-06	2.40E-03	418	
B00292731	5.28	2.48	16.50	8/31/2017	PT2.1	2.80	5.2E-06	3.31E-03	302	
B00292732	4.64	2.66	16.80	8/31/2017	PT2.1	1.98	2.3E-05	2.19E-03	462	
_pH4STD	4.09	-	16.9	8/31/2017	PT2.1	####	8.1E-05	#VALUE!	#VALUE!	
_pH7STD	6.98	-	17.5	8/31/2017	PT2.1	####	1.0E-07	#VALUE!	#VALUE!	
_pH10STD	9.99	-	18.3	8/31/2017	PT2.1	####	1.0E-10	#VALUE!	#VALUE!	
B00292733	4.87	2.61	17.20	8/31/2017	PT2.1	2.26	1.3E-05	2.45E-03	410	
B00292734	4.75	3.43	18.10	8/31/2017	PT2.1	1.32	1.8E-05	3.72E-04	2827	
B00292735	4.90	4.00	18.50	8/31/2017	PT2.1	0.90	1.3E-05	1.00E-04	11440	
B00292736	5.25	2.96	18.00	8/31/2017	PT2.1	2.29	5.6E-06	1.10E-03	917	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
B00292737	5.17	3.64	18.60	8/31/2017	PT2.1	1.53	6.8E-06	2.29E-04	4498	
B00292738	4.80	2.66	18.30	8/31/2017	PT2.1	2.14	1.6E-05	2.19E-03	460	
B00292739	4.97	2.59	18.20	8/31/2017	PT2.1	2.38	1.1E-05	2.57E-03	391	
_GravelPitSTD	6.91	3.31	18.6	8/31/2017	PT2.1	3.60	1.2E-07	4.90E-04	2042	B00292740 Blank - Gravel Pit
_pH4STD	4.21	-	17.7	8/31/2017	PT2.1	####	6.2E-05	#VALUE!	#VALUE!	Bug flew into sample
_pH7STD	7.02	-	18.4	8/31/2017	PT2.1	####	9.5E-08	#VALUE!	#VALUE!	
_pH10STD	10.02	-	19.3	8/31/2017	PT2.1	####	9.5E-11	#VALUE!	#VALUE!	
B00292741	5.46	3.01	18.40	8/31/2017	PT2.1	2.45	3.5E-06	9.77E-04	1027	
B00292742	4.20	2.87	19.00	8/31/2017	PT2.1	1.33	6.3E-05	1.35E-03	778	
B00292743	4.84	2.69	18.60	8/31/2017	PT2.1	2.15	1.4E-05	2.04E-03	493	
B00292744	5.94	2.44	19.10	8/31/2017	PT2.1	3.50	1.1E-06	3.63E-03	276	
B00292745	5.23	2.76	19.20	8/31/2017	PT2.1	2.47	5.9E-06	1.74E-03	577	
B00292746	4.95	2.99	19.30	8/31/2017	PT2.1	1.96	1.1E-05	1.02E-03	988	
B00292747	4.68	3.78	20.00	8/31/2017	PT2.1	0.90	2.1E-05	1.66E-04	6893	
B00292748	4.45	3.19	19.30	8/31/2017	PT2.1	1.26	3.5E-05	6.46E-04	1639	
B00292749	5.03	3.72	19.10	8/31/2017	PT2.1	1.31	9.3E-06	1.91E-04	5518	
B00292750	4.40		19.20	8/31/2017	PT2.1	4.40	4.0E-05	1.00E+00	1	Spilled sample before acid step
B00292751	4.89	3.35	19.50	8/31/2017	PT2.1	1.54	1.3E-05	4.47E-04	2305	
B00292752	5.01	2.62	19.40	8/31/2017	PT2.1	2.39	9.8E-06	2.40E-03	419	
B00292753	6.16	4.86	19.70	8/31/2017	PT2.1	1.30	6.9E-07	1.38E-05	76266	
B00292754	6.45	5.69	20.00	8/31/2017	PT2.1	0.76	3.5E-07	2.04E-06	592795	
B00292755	4.60	3.03	19.50	8/31/2017	PT2.1	1.57	2.5E-05	9.33E-04	1101	
B00292756	4.79	3.85	19.50	8/31/2017	PT2.1	0.94	1.6E-05	1.41E-04	7998	
B00292757	5.10	3.03	19.50	8/31/2017	PT2.1	2.07	7.9E-06	9.33E-04	1081	
B00292758	5.59	2.36	19.60	8/31/2017	PT2.1	3.23	2.6E-06	4.37E-03	229	
B00292759	5.03	2.83	19.50	8/31/2017	PT2.1	2.20	9.3E-06	1.48E-03	680	
B00292760	5.13	2.74	19.20	8/31/2017	PT2.1	2.39	7.4E-06	1.82E-03	552	
B00292761	4.57	3.10	19.40	8/31/2017	PT2.1	1.47	2.7E-05	7.94E-04	1303	
B00292762	5.07	2.84	19.60	8/31/2017	PT2.1	2.23	8.5E-06	1.45E-03	696	
B00292763	4.72	2.66	19.80	8/31/2017	PT2.1	2.06	1.9E-05	2.19E-03	461	
B00292764	5.20	2.66	20.60	8/31/2017	PT2.1	2.54	6.3E-06	2.19E-03	458	
B00292765	4.44	2.89	20.40	8/31/2017	PT2.1	1.55	3.6E-05	1.29E-03	799	
B00292766	4.73	2.71	19.70	8/31/2017	PT2.1	2.02	1.9E-05	1.95E-03	518	
B00292767	4.86	2.74	20.00	8/31/2017	PT2.1	2.12	1.4E-05	1.82E-03	554	
B00292768	4.82	2.87	19.90	8/31/2017	PT2.1	1.95	1.5E-05	1.35E-03	750	
B00292769	5.26	2.57	19.90	8/31/2017	PT2.1	2.69	5.5E-06	2.69E-03	372	
B00292770	5.73	4.08	20.20	8/31/2017	PT2.1	1.65	1.9E-06	8.32E-05	12298	
B00292771	5.36	3.15	20.60	8/31/2017	PT2.1	2.21	4.4E-06	7.08E-04	1421	
B00292772	4.61	3.46	20.90	8/31/2017	PT2.1	1.15	2.5E-05	3.47E-04	3104	
B00292773	4.78	2.90	20.50	8/31/2017	PT2.1	1.88	1.7E-05	1.26E-03	805	
B00292774	4.93	3.63	20.80	8/31/2017	PT2.1	1.30	1.2E-05	2.34E-04	4491	
B00292775	6.25	3.26	20.60	8/31/2017	PT2.1	2.99	5.6E-07	5.50E-04	1822	
B00292776	5.39	2.41	20.60	8/31/2017	PT2.1	2.98	4.1E-06	3.89E-03	257	
B00292777	5.12	3.64	20.40	8/31/2017	PT2.1	1.48	7.6E-06	2.29E-04	4515	
B00292778	5.56	5.04	21.10	8/31/2017	PT2.1	0.52	2.8E-06	9.12E-06	157087	Put a second drop of acid pH was 4.74
B00292779	6.05	4.49	19.50	8/31/2017	PT2.1	1.56	8.9E-07	3.24E-05	31778	
_GravelPitSTD	6.91	3.93	19.4	8/31/2017	PT2.1	2.98	1.2E-07	1.17E-04	8520	B00292780 Gravel Pit Standard
_pH4STD	4.18		19.8	8/31/2017	PT2.1	4.18	6.6E-05	1.00E+00	1	
_pH7STD	7.01		20.7	8/31/2017	PT2.1	7.01	9.8E-08	1.00E+00	1	
_pH10STD	9.96		21.6	8/31/2017	PT2.1	9.96	1.1E-10	1.00E+00	1	
B00292781	5.87	3.44	18.80	8/31/2017	PT2.1	2.43	1.3E-06	3.63E-04	2764	
B00292782	5.85	4.48	20.10	8/31/2017	PT2.1	1.37	1.4E-06	3.31E-05	31545	
B00292783	5.82	4.65	19.60	8/31/2017	PT2.1	1.17	1.5E-06	2.24E-05	47907	
B00292784	5.08	2.70	19.20	8/31/2017	PT2.1	2.38	8.3E-06	2.00E-03	503	
B00292785	5.14	2.58	19.10	8/31/2017	PT2.1	2.56	7.2E-06	2.63E-03	381	
B00292786	5.18	2.52	19.10	8/31/2017	PT2.1	2.66	6.6E-06	3.02E-03	332	
B00292787	5.24	2.47	18.60	8/31/2017	PT2.1	2.77	5.8E-06	3.39E-03	296	
B00292788	4.81	2.73	19.20	8/31/2017	PT2.1	2.08	1.5E-05	1.86E-03	542	
B00292789	4.96	2.55	18.50	8/31/2017	PT2.1	2.41	1.1E-05	2.82E-03	356	
B00292790	5.32	2.68	19.10	8/31/2017	PT2.1	2.64	4.8E-06	2.09E-03	480	
B00292791	5.37	2.84	18.60	8/31/2017	PT2.1	2.53	4.3E-06	1.45E-03	694	
B00292792	5.70	3.54	18.80	8/31/2017	PT2.1	2.16	2.0E-06	2.88E-04	3492	
B00292793	5.04	2.66	19.10	8/31/2017	PT2.1	2.38	9.1E-06	2.19E-03	459	
B00292794	5.15	3.23	19.20	8/31/2017	PT2.1	1.92	7.1E-06	5.89E-04	1719	
B00292795	5.65	4.20	19.20	8/31/2017	PT2.1	1.45	2.2E-06	6.31E-05	16432	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
B00292796	4.68	3.41	19.20	8/31/2017	PT2.1	1.27	2.1E-05	3.89E-04	2716	
B00292797	5.51	4.38	19.40	8/31/2017	PT2.1	1.13	3.1E-06	4.17E-05	25909	
B00292798	5.80	4.72	19.70	8/31/2017	PT2.1	1.08	1.6E-06	1.91E-05	57242	
B00292799	5.73	4.23	19.10	8/31/2017	PT2.1	1.50	1.9E-06	5.89E-05	17537	
B00292800	5.75	3.94	19.10	8/31/2017	PT2.1	1.81	1.8E-06	1.15E-04	8847	
B00292801	5.36	4.02	19.10	8/31/2017	PT2.1	1.34	4.4E-06	9.55E-05	10973	
B00292802	5.45	4.08	18.80	8/31/2017	PT2.1	1.37	3.5E-06	8.32E-05	12558	
B00292803	4.77	3.22	18.90	8/31/2017	PT2.1	1.55	1.7E-05	6.03E-04	1708	
B00292804	6.40	5.39	19.40	8/31/2017	PT2.1	1.01	4.0E-07	4.07E-06	272057	
B00292805	6.09		18.50	8/31/2017	PT2.1	6.09	8.1E-07	1.00E+00	1	Spilled sample before acid step
B00292806	6.45	5.14	18.80	8/31/2017	PT2.1	1.31	3.5E-07	7.24E-06	145147	
B00292807	6.31	4.34	18.10	8/31/2017	PT2.1	1.97	4.9E-07	4.57E-05	22115	
B00292808	6.10	4.99	18.70	8/31/2017	PT2.1	1.11	7.9E-07	1.02E-05	105948	
_pH4STD	4.03	-	22.8	9/1/2017	PT2.1	####	9.3E-05	#VALUE!	#VALUE!	
_pH7STD	6.99	-	23.1	9/1/2017	PT2.1	####	1.0E-07	#VALUE!	#VALUE!	
_pH10STD	10.01	-	22.5	9/1/2017	PT2.1	####	9.8E-11	#VALUE!	#VALUE!	
B00292907	6.46	4.03	22.90	9/1/2017	PT2.1	2.43	3.5E-07	9.33E-05	10755	
B00292908	5.47	3.88	23.20	9/1/2017	PT2.1	1.59	3.4E-06	1.32E-04	7786	
B00292909	6.10	4.31	22.20	9/1/2017	PT2.1	1.79	7.9E-07	4.90E-05	20754	
B00292910	6.14	4.99	22.60	9/1/2017	PT2.1	1.15	7.2E-07	1.02E-05	105169	
B00292911	6.16	5.48	22.40	9/1/2017	PT2.1	0.68	6.9E-07	3.31E-06	381755	Added 2nd drop of acid (5.15 pH)
B00292912	6.30	5.19	22.90	9/1/2017	PT2.1	1.11	5.0E-07	6.46E-06	167916	
B00292913	4.90	3.02	22.20	9/1/2017	PT2.1	1.88	1.3E-05	9.55E-04	1061	
B00292914	4.86	2.68	21.70	9/1/2017	PT2.1	2.18	1.4E-05	2.09E-03	482	
B00292915	5.08	2.67	21.50	9/1/2017	PT2.1	2.41	8.3E-06	2.14E-03	470	
B00292916	5.16	2.80	21.80	9/1/2017	PT2.1	2.36	6.9E-06	1.58E-03	634	
B00292917	5.41	2.95	21.80	9/1/2017	PT2.1	2.46	3.9E-06	1.12E-03	894	
B00292918	6.62	5.12	22.20	9/1/2017	PT2.1	1.50	2.4E-07	7.59E-06	136130	
B00292919	5.86	2.94	21.50	9/1/2017	PT2.1	2.92	1.4E-06	1.15E-03	872	
B00292920	5.63	3.30	21.10	9/1/2017	PT2.1	2.33	2.3E-06	5.01E-04	2005	
B00292921	5.90	3.81	20.70	9/1/2017	PT2.1	2.09	1.3E-06	1.55E-04	6509	
B00292922	6.37	4.46	20.90	9/1/2017	PT2.1	1.91	4.3E-07	3.47E-05	29200	
B00292923	6.02	4.83	19.70	9/1/2017	PT2.1	1.19	9.5E-07	1.48E-05	72275	
B00292924	6.43	5.10	17.40	9/1/2017	PT2.1	1.33	3.7E-07	7.94E-06	132070	
B00292925	5.34	3.36	18.90	9/1/2017	PT2.1	1.98	4.6E-06	4.37E-04	2315	
B00292926	4.26	2.73	19.60	9/1/2017	PT2.1	1.53	5.5E-05	1.86E-03	553	
B00292927	5.51	2.85	16.90	9/1/2017	PT2.1	2.66	3.1E-06	1.41E-03	709	
B00292928	6.02	3.51	17.20	9/1/2017	PT2.1	2.51	9.5E-07	3.09E-04	3246	
B00292929	5.72	3.93	17.00	9/1/2017	PT2.1	1.79	1.9E-06	1.17E-04	8652	
B00292930	5.11	2.97	17.10	9/1/2017	PT2.1	2.14	7.8E-06	1.07E-03	940	
B00292931	5.39	4.33	17.30	9/1/2017	PT2.1	1.06	4.1E-06	4.68E-05	23419	
B00292932	5.94	4.81	17.60	9/1/2017	PT2.1	1.13	1.1E-06	1.55E-05	69735	
B00292933	6.24	5.27	17.40	9/1/2017	PT2.1	0.97	5.8E-07	5.37E-06	208556	
B00292934	5.36	3.34	16.80	9/1/2017	PT2.1	2.02	4.4E-06	4.57E-04	2209	
B00292935	4.98	2.72	16.70	9/1/2017	PT2.1	2.26	1.0E-05	1.91E-03	528	
B00292936	6.29	4.33	16.90	9/1/2017	PT2.1	1.96	5.1E-07	4.68E-05	21617	
B00292937	6.21	4.11	16.70	9/1/2017	PT2.1	2.10	6.2E-07	7.76E-05	12986	
B00292938	4.94	2.58	16.80	9/1/2017	PT2.1	2.36	1.1E-05	2.63E-03	382	
B00292939	4.62	2.63	16.80	9/1/2017	PT2.1	1.99	2.4E-05	2.34E-03	431	
_GravelPitSTD	6.81	4.31	17	9/1/2017	PT2.1	2.50	1.5E-07	4.90E-05	20482	B00292940blank gravel pit
_pH4STD	4.13	-	17.9	9/1/2017	PT2.1	####	7.4E-05	#VALUE!	#VALUE!	
_pH7STD	7.09	-	18.5	9/1/2017	PT2.1	####	8.1E-08	#VALUE!	#VALUE!	
_pH10STD	10.16	-	18.4	9/1/2017	PT2.1	####	6.9E-11	#VALUE!	#VALUE!	
_pH10STD	10.32	-	18.2	9/1/2017	PT2.1	####	4.8E-11	#VALUE!	#VALUE!	Replaced solution because of high readings
_pH4STD	3.97	-	17.2	9/1/2017	PT2.1	####	1.1E-04	#VALUE!	#VALUE!	Re_InstruCALibrated because of high reading on _pH10STD
_pH7STD	6.99	-	17.8	9/1/2017	PT2.1	####	1.0E-07	#VALUE!	#VALUE!	
_pH10STD	10.02	-	18.4	9/1/2017	PT2.1	####	9.5E-11	#VALUE!	#VALUE!	
B00292941	5.19	3.44	15.50	9/1/2017	PT2.1	1.75	6.5E-06	3.63E-04	2804	
B00292942	4.65	2.74	16.30	9/1/2017	PT2.1	1.91	2.2E-05	1.82E-03	556	
B00292943	4.72	2.71	16.50	9/1/2017	PT2.1	2.01	1.9E-05	1.95E-03	518	
B00292944	4.54	2.69	16.90	9/1/2017	PT2.1	1.85	2.9E-05	2.04E-03	497	
B00292945	4.54	2.69	16.40	9/1/2017	PT2.1	1.85	2.9E-05	2.04E-03	497	
B00292946	4.80	2.73	16.60	9/1/2017	PT2.1	2.07	1.6E-05	1.86E-03	542	
B00292947	4.82	2.59	17.10	9/1/2017	PT2.1	2.23	1.5E-05	2.57E-03	391	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
B00292948	4.84	2.57	17.30	9/1/2017	PT2.1	2.27	1.4E-05	2.69E-03	374	
B00292949	4.98	2.59	17.10	9/1/2017	PT2.1	2.39	1.0E-05	2.57E-03	391	
B00292950	5.36	3.94	17.40	9/1/2017	PT2.1	1.42	4.4E-06	1.15E-04	9054	
B00292951	5.03	2.90	19.30	9/1/2017	PT2.1	2.13	9.3E-06	1.26E-03	800	
B00292952	4.79	2.73	19.90	9/1/2017	PT2.1	2.06	1.6E-05	1.86E-03	542	
B00292953	5.33	2.47	18.30	9/1/2017	PT2.1	2.86	4.7E-06	3.39E-03	296	
B00292954	4.86	3.55	20.00	9/1/2017	PT2.1	1.31	1.4E-05	2.82E-04	3731	
B00292955	4.72	3.08	17.70	9/1/2017	PT2.1	1.64	1.9E-05	8.32E-04	1230	
B00292956	4.81	2.53	19.70	9/1/2017	PT2.1	2.28	1.5E-05	2.95E-03	341	
B00292957	4.45	2.56	17.40	9/1/2017	PT2.1	1.89	3.5E-05	2.75E-03	368	
B00292958	5.99	4.32	17.90	9/1/2017	PT2.1	1.67	1.0E-06	4.79E-05	21349	
B00292959	5.37	3.63	18.40	9/1/2017	PT2.1	1.74	4.3E-06	2.34E-04	4345	
B00292960	5.44	3.82	17.20	9/1/2017	PT2.1	1.62	3.6E-06	1.51E-04	6769	
B00292961	5.03	4.06	18.00	9/1/2017	PT2.1	0.97	9.3E-06	8.71E-05	12859	
B00292962	4.94	3.48	17.70	9/1/2017	PT2.1	1.46	1.1E-05	3.31E-04	3128	
B00292963	4.82	3.85	18.20	9/1/2017	PT2.1	0.97	1.5E-05	1.41E-04	7929	
B00292964	5.08	3.51	17.30	9/1/2017	PT2.1	1.57	8.3E-06	3.09E-04	3325	
B00292965	5.46	3.96	18.20	9/1/2017	PT2.1	1.50	3.5E-06	1.10E-04	9418	
B00292966	5.70	3.67	18.00	9/1/2017	PT2.1	2.03	2.0E-06	2.14E-04	4721	
B00292967	4.98	3.43	18.60	9/1/2017	PT2.1	1.55	1.0E-05	3.72E-04	2770	
B00292968	6.57	5.73	19.70	9/1/2017	PT2.1	0.84	2.7E-07	1.86E-06	627773	
B00292969	4.52	2.50	18.80	9/1/2017	PT2.1	2.02	3.0E-05	3.16E-03	319	
B00292970	4.67	2.03	17.70	9/1/2017	PT2.1	2.64	2.1E-05	9.33E-03	107	2 drops of acid were added by accident
B00292971	4.94	2.59	17.90	9/1/2017	PT2.1	2.35	1.1E-05	2.57E-03	391	
B00292972	4.76	2.42	18.10	9/1/2017	PT2.1	2.34	1.7E-05	3.80E-03	264	
B00292973	4.93	2.83	18.60	9/1/2017	PT2.1	2.10	1.2E-05	1.48E-03	681	
B00292974	4.50	2.61	18.20	9/1/2017	PT2.1	1.89	3.2E-05	2.45E-03	413	
B00292975	5.29	2.76	18.50	9/1/2017	PT2.1	2.53	5.1E-06	1.74E-03	577	
B00292976	4.94	2.49	18.20	9/1/2017	PT2.1	2.45	1.1E-05	3.24E-03	310	
B00292977	4.74	2.84	18.50	9/1/2017	PT2.1	1.90	1.8E-05	1.45E-03	701	
B00292978	5.09	2.28	18.60	9/1/2017	PT2.1	2.81	8.1E-06	5.25E-03	191	
B00292979	5.06	2.98	18.40	9/1/2017	PT2.1	2.08	8.7E-06	1.05E-03	963	
_GravelPitSTD	8.01	5.24	18.8	9/1/2017	PT2.1	2.77	9.8E-09	5.75E-06	174076	B00292980Gravel Pit Standard. Really High reading, tried a second one. Done with new pH meter
B00292980	8.56	4.00	18.10	9/1/2017	PT2.1	4.56	2.8E-09	1.00E-04	10000	Tried a third sample. Done with new pH meter
B00292980	7.96		17.20	9/1/2017	PT2.1	7.96	1.1E-08	1.00E+00	1	Done with new pH meter
B00292980	7.17	3.89	18.50	9/1/2017	PT2.1	3.28	6.8E-08	1.29E-04	7767	Done with old pH meter
_pH4STD	4.15	-	19.6	9/1/2017	PT2.1	####	7.1E-05	#VALUE!	#VALUE!	
_pH7STD	7.07	-	19.2	9/1/2017	PT2.1	####	8.5E-08	#VALUE!	#VALUE!	
_pH10STD	10.05	-	19.7	9/1/2017	PT2.1	####	8.9E-11	#VALUE!	#VALUE!	
B00292981	5.50	2.57	17.20	9/1/2017	PT2.1	2.93	3.2E-06	2.69E-03	372	
B00292982	4.66	2.55	17.50	9/1/2017	PT2.1	2.11	2.2E-05	2.82E-03	358	
B00292983	4.74	2.98	17.60	9/1/2017	PT2.1	1.76	1.8E-05	1.05E-03	972	
B00292984	4.71	2.81	17.80	9/1/2017	PT2.1	1.90	1.9E-05	1.55E-03	654	
B00292985	6.06	2.99	17.90	9/1/2017	PT2.1	3.07	8.7E-07	1.02E-03	978	
B00292986	5.40	2.50	18.20	9/1/2017	PT2.1	2.90	4.0E-06	3.16E-03	317	
B00292987	4.64	3.52	18.10	9/1/2017	PT2.1	1.12	2.3E-05	3.02E-04	3583	
B00292988	4.86	3.42	17.80	9/1/2017	PT2.1	1.44	1.4E-05	3.80E-04	2729	
B00292989	4.56	2.99	17.70	9/1/2017	PT2.1	1.57	2.8E-05	1.02E-03	1004	
B00292990	4.75	2.72	17.70	9/1/2017	PT2.1	2.03	1.8E-05	1.91E-03	530	
B00292991	4.85	2.68	18.00	9/1/2017	PT2.1	2.17	1.4E-05	2.09E-03	482	
B00292992	4.71	2.70	17.60	9/1/2017	PT2.1	2.01	1.9E-05	2.00E-03	506	
B00292993	5.27	2.57	17.60	9/1/2017	PT2.1	2.70	5.4E-06	2.69E-03	372	
B00292994	5.21	2.92	17.70	9/1/2017	PT2.1	2.29	6.2E-06	1.20E-03	836	
B00292995	4.86	2.80	18.00	9/1/2017	PT2.1	2.06	1.4E-05	1.58E-03	637	
B00292996	5.61	2.54	17.70	9/1/2017	PT2.1	3.07	2.5E-06	2.88E-03	347	
B00292997	4.96	3.89	18.60	9/1/2017	PT2.1	1.07	1.1E-05	1.29E-04	8485	
B00292998	5.27	3.24	17.30	9/1/2017	PT2.1	2.03	5.4E-06	5.75E-04	1754	
B00292999	4.79	2.82	17.60	9/1/2017	PT2.1	1.97	1.6E-05	1.51E-03	668	
B00293000	4.99	2.77	17.60	9/1/2017	PT2.1	2.22	1.0E-05	1.70E-03	592	
_pH4STD	3.92	-	5.6	9/2/2017	PT2.1	####	1.2E-04	#VALUE!	#VALUE!	
_pH7STD	6.90	-	5.6	9/2/2017	PT2.1	####	1.3E-07	#VALUE!	#VALUE!	
_pH10STD	9.96	-	5.6	9/2/2017	PT2.1	####	1.1E-10	#VALUE!	#VALUE!	
D00007665	7.62	5.18	6.20	9/2/2017	PT2.1	2.44	2.4E-08	6.61E-06	151908	
D00007666	4.89	3.16	6.40	9/2/2017	PT2.1	1.73	1.3E-05	6.92E-04	1473	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007667	5.13	2.42	6.60	9/2/2017	PT2.1	2.71	7.4E-06	3.80E-03	264	
D00007668	5.84	3.79	6.90	9/2/2017	PT2.1	2.05	1.4E-06	1.62E-04	6221	
D00007669	6.29	5.09	7.60	9/2/2017	PT2.1	1.20	5.1E-07	8.13E-06	131312	
D00007670	5.39	3.37	7.20	9/2/2017	PT2.1	2.02	4.1E-06	4.27E-04	2367	
D00007671	5.40	2.63	7.40	9/2/2017	PT2.1	2.77	4.0E-06	2.34E-03	427	
D00007672	5.77	2.63	7.20	9/2/2017	PT2.1	3.14	1.7E-06	2.34E-03	427	
D00007673	5.21	2.58	7.20	9/2/2017	PT2.1	2.63	6.2E-06	2.63E-03	381	
D00007674	4.86	2.55	7.10	9/2/2017	PT2.1	2.31	1.4E-05	2.82E-03	357	3 drops of acid
D00007675	4.92	2.76	7.50	9/2/2017	PT2.1	2.16	1.2E-05	1.74E-03	579	
D00007676	5.54	3.05	7.70	9/2/2017	PT2.1	2.49	2.9E-06	8.91E-04	1126	
D00007677	5.04	2.52	8.30	9/2/2017	PT2.1	2.52	9.1E-06	3.02E-03	332	
D00007678	4.98	2.46	8.40	9/2/2017	PT2.1	2.52	1.0E-05	3.47E-03	289	
D00007679	4.47	2.42	8.60	9/2/2017	PT2.1	2.05	3.4E-05	3.80E-03	265	
D00007680	6.33	3.99	8.80	9/2/2017	PT2.1	2.34	4.7E-07	1.02E-04	9817	
_pH4STD	4.15		7.9	9/2/2017	PT2.1	4.15	7.1E-05	1.00E+00	1	
_pH7STD	7.02		7.7	9/2/2017	PT2.1	7.02	9.5E-08	1.00E+00	1	
_pH10STD	10.11		7.9	9/2/2017	PT2.1	10.11	7.8E-11	1.00E+00	1	
D00007681	6.09	2.67	9.70	9/2/2017	PT2.1	3.42	8.1E-07	2.14E-03	468	
D00007682	4.36	2.79	10.20	9/2/2017	PT2.1	1.57	4.4E-05	1.62E-03	634	
D00007683	4.62	2.66	10.00	9/2/2017	PT2.1	1.96	2.4E-05	2.19E-03	462	
D00007684	4.69	3.12	10.50	9/2/2017	PT2.1	1.57	2.0E-05	7.59E-04	1355	
D00007685	4.89	2.49	10.90	9/2/2017	PT2.1	2.40	1.3E-05	3.24E-03	310	
D00007686	6.20	3.58	16.90	9/2/2017	PT2.1	2.62	6.3E-07	2.63E-04	3811	
D00007687	5.37	3.53	17.50	9/2/2017	PT2.1	1.84	4.3E-06	2.95E-04	3438	
D00007688	4.91	2.44	15.80	9/2/2017	PT2.1	2.47	1.2E-05	3.63E-03	276	
D00007689	4.50	2.76	15.60	9/2/2017	PT2.1	1.74	3.2E-05	1.74E-03	586	
D00007690	5.15	3.36	15.90	9/2/2017	PT2.1	1.79	7.1E-06	4.37E-04	2329	
D00007691	5.51	4.41	16.70	9/2/2017	PT2.1	1.10	3.1E-06	3.89E-05	27922	
D00007692	5.13	4.18	17.20	9/2/2017	PT2.1	0.95	7.4E-06	6.61E-05	17048	
D00007693	5.43	3.04	16.80	9/2/2017	PT2.1	2.39	3.7E-06	9.12E-04	1101	
D00007761	5.08	2.67	17.00	9/2/2017	PT2.1	2.41	8.3E-06	2.14E-03	470	
D00007762	5.25	2.63	15.00	9/2/2017	PT2.1	2.62	5.6E-06	2.34E-03	428	
D00007763	5.00	2.60	15.40	9/2/2017	PT2.1	2.40	1.0E-05	2.51E-03	400	
D00007764	4.50	3.22	15.90	9/2/2017	PT2.1	1.28	3.2E-05	6.03E-04	1752	
D00007765	5.14	3.47	16.40	9/2/2017	PT2.1	1.67	7.2E-06	3.39E-04	3016	
D00007766	4.86	2.90	16.40	9/2/2017	PT2.1	1.96	1.4E-05	1.26E-03	803	
D00007767	4.94	3.08	16.80	9/2/2017	PT2.1	1.86	1.1E-05	8.32E-04	1219	
D00007694	4.77	2.69	15.00	9/2/2017	PT2.1	2.08	1.7E-05	2.04E-03	494	
D00007695	5.38	2.59	15.10	9/2/2017	PT2.1	2.79	4.2E-06	2.57E-03	390	
D00007696	5.26	3.71	15.50	9/2/2017	PT2.1	1.55	5.5E-06	1.95E-04	5277	
_pH4STD	4.18	-	20.3	9/2/2017	PT2.1	####	6.6E-05	#VALUE!	#VALUE!	
_pH7STD	6.98	-	20.1	9/2/2017	PT2.1	####	1.0E-07	#VALUE!	#VALUE!	
_pH10STD	10.04	-	21.1	9/2/2017	PT2.1	####	9.1E-11	#VALUE!	#VALUE!	
D00007697	6.87	4.58	19.60	9/2/2017	PT2.1	2.29	1.3E-07	2.63E-05	38215	
D00007698	5.18	2.52	19.20	9/2/2017	PT2.1	2.66	6.6E-06	3.02E-03	332	
D00007699	4.61	2.77	17.70	9/2/2017	PT2.1	1.84	2.5E-05	1.70E-03	597	
D00007700	4.32	2.69	17.90	9/2/2017	PT2.1	1.63	4.8E-05	2.04E-03	502	
D00007701	5.12	2.66	17.50	9/2/2017	PT2.1	2.46	7.6E-06	2.19E-03	459	
D00007702	4.53	3.06	16.30	9/2/2017	PT2.1	1.47	3.0E-05	8.71E-04	1188	
D00007703	4.48	2.71	16.00	9/2/2017	PT2.1	1.77	3.3E-05	1.95E-03	522	
D00007704	5.17	2.63	16.10	9/2/2017	PT2.1	2.54	6.8E-06	2.34E-03	428	
D00007705	4.57	3.20	16.40	9/2/2017	PT2.1	1.37	2.7E-05	6.31E-04	1656	
D00007706	5.09	3.58	16.50	9/2/2017	PT2.1	1.51	8.1E-06	2.63E-04	3923	
D00007707	4.56	2.65	16.50	9/2/2017	PT2.1	1.91	2.8E-05	2.24E-03	452	
D00007708	4.88	3.49	15.60	9/2/2017	PT2.1	1.39	1.3E-05	3.24E-04	3222	
D00007709	4.43	2.88	15.70	9/2/2017	PT2.1	1.55	3.7E-05	1.32E-03	781	
D00007710	5.11	3.86	16.40	9/2/2017	PT2.1	1.25	7.8E-06	1.38E-04	7676	
D00007711	5.37	3.29	15.90	9/2/2017	PT2.1	2.08	4.3E-06	5.13E-04	1966	
D00007712	4.63	2.70	16.20	9/2/2017	PT2.1	1.93	2.3E-05	2.00E-03	507	
D00007713	4.71	2.67	15.80	9/2/2017	PT2.1	2.04	1.9E-05	2.14E-03	472	
D00007714	4.84	2.66	15.90	9/2/2017	PT2.1	2.18	1.4E-05	2.19E-03	460	
D00007715	5.29	3.66	15.70	9/2/2017	PT2.1	1.63	5.1E-06	2.19E-04	4681	
D00007716	5.17	2.54	16.40	9/2/2017	PT2.1	2.63	6.8E-06	2.88E-03	348	
D00007717	5.90	2.91	16.50	9/2/2017	PT2.1	2.99	1.3E-06	1.23E-03	814	
D00007718	5.78	3.98	16.10	9/2/2017	PT2.1	1.80	1.7E-06	1.05E-04	9704	
D00007719	5.17	3.48	16.00	9/2/2017	PT2.1	1.69	6.8E-06	3.31E-04	3083	
D00007721	4.92	2.85	16.30	9/2/2017	PT2.1	2.07	1.2E-05	1.41E-03	714	
D00007722	6.24	4.73	16.40	9/2/2017	PT2.1	1.51	5.8E-07	1.86E-05	55416	
D00007723	6.67	5.05	16.30	9/2/2017	PT2.1	1.62	2.1E-07	8.91E-06	114960	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007724	6.45	4.93	16.20	9/2/2017	PT2.1	1.52	3.5E-07	1.17E-05	87764	
D00007759	5.03	2.58	16.20	9/2/2017	PT2.1	2.45	9.3E-06	2.63E-03	382	
D00007768	5.12	2.95	16.20	9/2/2017	PT2.1	2.17	7.6E-06	1.12E-03	897	
D00007769	5.14	2.44	16.30	9/2/2017	PT2.1	2.70	7.2E-06	3.63E-03	276	
D00007770	4.92	3.56	16.40	9/2/2017	PT2.1	1.36	1.2E-05	2.75E-04	3797	
D00007771	4.67	3.41	15.80	9/2/2017	PT2.1	1.26	2.1E-05	3.89E-04	2720	
D00007772	4.79	2.80	15.60	9/2/2017	PT2.1	1.99	1.6E-05	1.58E-03	637	
D00007796	4.87	3.46	17.20	9/2/2017	PT2.1	1.41	1.3E-05	3.47E-04	3001	
D00007798	5.26	3.15	17.70	9/2/2017	PT2.1	2.11	5.5E-06	7.08E-04	1424	
D00007799	5.05	3.09	17.20	9/2/2017	PT2.1	1.96	8.9E-06	8.13E-04	1244	
D00007805	4.95	2.94	17.20	9/2/2017	PT2.1	2.01	1.1E-05	1.15E-03	880	
D00007806	5.36	2.49	17.30	9/2/2017	PT2.1	2.87	4.4E-06	3.24E-03	309	
D00007813	5.03	3.29	17.40	9/2/2017	PT2.1	1.74	9.3E-06	5.13E-04	1986	
D00007814	5.02	2.73	17.30	9/2/2017	PT2.1	2.29	9.5E-06	1.86E-03	540	
D00004623	6.29	3.47	16.50	9/2/2017	PT2.1	2.82	5.1E-07	3.39E-04	2956	
D00004759	5.96	4.15	17.20	9/2/2017	PT2.1	1.81	1.1E-06	7.08E-05	14348	
D00004760	6.09	4.12	17.40	9/2/2017	PT2.1	1.97	8.1E-07	7.59E-05	13325	
D00004806	6.09	3.97	17.80	9/2/2017	PT2.1	2.12	8.1E-07	1.07E-04	9404	
D00004812	4.93	3.03	18.00	9/2/2017	PT2.1	1.90	1.2E-05	9.33E-04	1085	
D00004813	5.67	3.82	18.50	9/2/2017	PT2.1	1.85	2.1E-06	1.51E-04	6702	
D00004814	6.16	4.28	18.70	9/2/2017	PT2.1	1.88	6.9E-07	5.25E-05	19309	
D00004824	5.36	3.04	17.90	9/2/2017	PT2.1	2.32	4.4E-06	9.12E-04	1102	
D00007130	5.64	4.18	18.70	9/2/2017	PT2.1	1.46	2.3E-06	6.61E-05	15679	
D00007913				9/2/2017	PT2.1					Sample missing from box
D00007929	4.70	3.03	18.30	9/2/2017	PT2.1	1.67	2.0E-05	9.33E-04	1095	
D00007943	5.34	2.99	18.70	9/2/2017	PT2.1	2.35	4.6E-06	1.02E-03	982	
_pH4STD	4.12	-	2.9	9/3/2017	PT2.1	####	7.6E-05	#VALUE!	#VALUE!	
_pH7STD	7.07	-	2.9	9/3/2017	PT2.1	####	8.5E-08	#VALUE!	#VALUE!	
_pH10STD	10.07	-	2.9	9/3/2017	PT2.1	####	8.5E-11	#VALUE!	#VALUE!	
D00007944	6.69	2.87	3.50	9/3/2017	PT2.1	3.82	2.0E-07	1.35E-03	741	
D00007945	4.88	3.17	3.90	9/3/2017	PT2.1	1.71	1.3E-05	6.76E-04	1509	
D00007946	5.39	2.37	4.10	9/3/2017	PT2.1	3.02	4.1E-06	4.27E-03	235	
D00007947	5.13	2.26	4.40	9/3/2017	PT2.1	2.87	7.4E-06	5.50E-03	182	
D00007948	5.48	2.19	4.50	9/3/2017	PT2.1	3.29	3.3E-06	6.46E-03	155	
D00007949	5.37	2.33	4.80	9/3/2017	PT2.1	3.04	4.3E-06	4.68E-03	214	
D00007950	5.22	2.23	4.90	9/3/2017	PT2.1	2.99	6.0E-06	5.89E-03	170	
D00007951	4.81	2.42	5.60	9/3/2017	PT2.1	2.39	1.5E-05	3.80E-03	264	
D00007952	5.10	2.18	6.30	9/3/2017	PT2.1	2.92	7.9E-06	6.61E-03	152	
D00007953	4.89	3.01	6.00	9/3/2017	PT2.1	1.88	1.3E-05	9.77E-04	1037	
D00007954	5.68	3.48	6.80	9/3/2017	PT2.1	2.20	2.1E-06	3.31E-04	3039	
D00007955	4.93	2.59	6.90	9/3/2017	PT2.1	2.34	1.2E-05	2.57E-03	391	
D00007956	5.14	2.30	7.30	9/3/2017	PT2.1	2.84	7.2E-06	5.01E-03	200	
D00007957	5.46	2.69	7.70	9/3/2017	PT2.1	2.77	3.5E-06	2.04E-03	491	
D00007958	4.59	2.43	8.00	9/3/2017	PT2.1	2.16	2.6E-05	3.72E-03	271	
D00007959	5.07	2.81	7.20	9/3/2017	PT2.1	2.26	8.5E-06	1.55E-03	649	
D00007961	4.89	3.07	7.80	9/3/2017	PT2.1	1.82	1.3E-05	8.51E-04	1193	
D00007962	4.83	3.02	8.20	9/3/2017	PT2.1	1.81	1.5E-05	9.55E-04	1064	
D00007963	5.38	2.51	8.70	9/3/2017	PT2.1	2.87	4.2E-06	3.09E-03	324	
D00007964	5.05	2.87	9.30	9/3/2017	PT2.1	2.18	8.9E-06	1.35E-03	746	
D00007965	5.03	3.58	9.30	9/3/2017	PT2.1	1.45	9.3E-06	2.63E-04	3942	
D00007966	5.01	4.02	10.20	9/3/2017	PT2.1	0.99	9.8E-06	9.55E-05	11665	
D00007967	5.19	3.02	15.20	9/3/2017	PT2.1	2.17	6.5E-06	9.55E-04	1054	
D00007968	4.88	3.41	16.20	9/3/2017	PT2.1	1.47	1.3E-05	3.89E-04	2661	
D00007969	5.03	3.40	10.90	9/3/2017	PT2.1	1.63	9.3E-06	3.98E-04	2572	
D00007970	5.36	4.37	15.50	9/3/2017	PT2.1	0.99	4.4E-06	4.27E-05	26115	
D00007971	5.61	3.60	15.00	9/3/2017	PT2.1	2.01	2.5E-06	2.51E-04	4020	
D00007972	5.29	4.10	15.50	9/3/2017	PT2.1	1.19	5.1E-06	7.94E-05	13458	
D00007975	5.60	3.60	15.10	9/3/2017	PT2.1	2.00	2.5E-06	2.51E-04	4021	
D00004628	6.18	4.50	15.20	9/3/2017	PT2.1	1.68	6.6E-07	3.16E-05	32298	
D00004643	5.98	4.73	15.80	9/3/2017	PT2.1	1.25	1.0E-06	1.86E-05	56903	
D00004647	4.94	3.20	15.40	9/3/2017	PT2.1	1.74	1.1E-05	6.31E-04	1614	
D00004765	6.25	5.31	15.90	9/3/2017	PT2.1	0.94	5.6E-07	4.90E-06	230657	
_pH4STD	4.09		23.5	9/3/2017	PT2.1	4.09	8.1E-05	1.00E+00	1	Re_InstruCALibrated
_pH7STD	7.04		22.6	9/3/2017	PT2.1	7.04	9.1E-08	1.00E+00	1	
_pH10STD	10.10		22.9	9/3/2017	PT2.1	10.10	7.9E-11	1.00E+00	1	
D00004792	5.81	3.48	21.70	9/3/2017	PT2.1	2.33	1.5E-06	3.31E-04	3034	
D00004795	5.22	3.59	21.50	9/3/2017	PT2.1	1.63	6.0E-06	2.57E-04	3984	
D00004829	6.41	4.33	20.50	9/3/2017	PT2.1	2.08	3.9E-07	4.68E-05	21559	
D00004835	6.06	4.10	20.20	9/3/2017	PT2.1	1.96	8.7E-07	7.94E-05	12729	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006206	5.21	3.41	20.70	9/3/2017	PT2.1	1.80	6.2E-06	3.89E-04	2612	
D00006351	4.93	2.98	20.10	9/3/2017	PT2.1	1.95	1.2E-05	1.05E-03	966	
_GravelPitSTD	6.80	4.12	19.1	9/3/2017	PT2.1	2.68	1.6E-07	7.59E-05	13210	
_pH4STD	4.06		21.0	9/3/2017	PT2.1	4.06	8.7E-05	1.00E+00	1	
_pH7STD	7.10		20.7	9/3/2017	PT2.1	7.10	7.9E-08	1.00E+00	1	
_pH10STD	10.15		21.1	9/3/2017	PT2.1	10.15	7.1E-11	1.00E+00	1	
D00006352	5.96	2.78	18.60	9/3/2017	PT2.1	3.18	1.1E-06	1.66E-03	603	
D00006353	5.05	2.64	18.80	9/3/2017	PT2.1	2.41	8.9E-06	2.29E-03	438	
D00006354	5.21	3.72	19.20	9/3/2017	PT2.1	1.49	6.2E-06	1.91E-04	5424	
D00006355	5.24	2.66	19.50	9/3/2017	PT2.1	2.58	5.8E-06	2.19E-03	458	
D00006356	5.47	2.91	19.70	9/3/2017	PT2.1	2.56	3.4E-06	1.23E-03	815	
D00006357	5.40	2.64	19.00	9/3/2017	PT2.1	2.76	4.0E-06	2.29E-03	437	
D00006358	5.15	2.79	17.40	9/3/2017	PT2.1	2.36	7.1E-06	1.62E-03	619	
D00006359	4.88	2.49	17.10	9/3/2017	PT2.1	2.39	1.3E-05	3.24E-03	310	
D00006360	4.81	2.50	17.20	9/3/2017	PT2.1	2.31	1.5E-05	3.16E-03	318	
D00006361	5.30	2.53	17.10	9/3/2017	PT2.1	2.77	5.0E-06	2.95E-03	339	
D00006362	5.09	3.33	17.30	9/3/2017	PT2.1	1.76	8.1E-06	4.68E-04	2176	
D00006363	4.52	2.87	17.50	9/3/2017	PT2.1	1.65	3.0E-05	1.35E-03	758	
D00006364	4.54	3.05	17.80	9/3/2017	PT2.1	1.49	2.9E-05	8.91E-04	1160	
D00006365	5.09	3.96	17.00	9/3/2017	PT2.1	1.13	8.1E-06	1.10E-04	9850	
D00006366	5.03	3.16	16.80	9/3/2017	PT2.1	1.87	9.3E-06	6.92E-04	1465	
D00006367	5.22	2.46	16.50	9/3/2017	PT2.1	2.76	6.0E-06	3.47E-03	289	
D00006368	4.75	3.01	16.80	9/3/2017	PT2.1	1.74	1.8E-05	9.77E-04	1042	
D00006369	5.03	2.72	16.70	9/3/2017	PT2.1	2.31	9.3E-06	1.91E-03	527	
D00006370	4.84	2.77	17.00	9/3/2017	PT2.1	2.07	1.4E-05	1.70E-03	594	
D00006528	6.28	4.01	16.40	9/3/2017	PT2.1	2.27	5.2E-07	9.77E-05	10288	
D00006531	6.23	2.91	18.00	9/3/2017	PT2.1	3.32	5.9E-07	1.23E-03	813	
D00006532	6.41	4.53	17.60	9/3/2017	PT2.1	1.88	3.9E-07	2.95E-05	34337	
D00006534	5.28	2.55	17.80	9/3/2017	PT2.1	2.73	5.2E-06	2.82E-03	355	
D00006535	4.84	3.23	17.60	9/3/2017	PT2.1	1.61	1.4E-05	5.89E-04	1741	
D00007135	5.62	4.61	18.40	9/3/2017	PT2.1	1.01	2.4E-06	2.45E-05	45150	
D00007165	5.31	3.05	17.60	9/3/2017	PT2.1	2.26	4.9E-06	8.91E-04	1128	
D00007924	5.57	4.49	17.40	9/3/2017	PT2.1	1.08	2.7E-06	3.24E-05	33707	
D00007933	4.62	3.03	16.90	9/3/2017	PT2.1	1.59	2.4E-05	9.33E-04	1100	
D00007981	5.67	4.06	17.50	9/3/2017	PT2.1	1.61	2.1E-06	8.71E-05	11770	
D00004633	6.32	4.13	17.00	9/3/2017	PT2.1	2.19	4.8E-07	7.41E-05	13577	
D00004637	6.29	4.35	17.30	9/3/2017	PT2.1	1.94	5.1E-07	4.47E-05	22647	
D00004683		3.71	18.30	9/3/2017	Oakton					
_pH4STD	4.01	-	18.3	9/3/2017	Oakton	####	9.8E-05	#VALUE!	#VALUE!	
_pH7STD	7.00	-	18.3	9/3/2017	Oakton	####	1.0E-07	#VALUE!	#VALUE!	
_pH10STD	10.01	-	18.5	9/3/2017	Oakton	####	9.8E-11	#VALUE!	#VALUE!	
D00004688	6.39	4.91	18.40	9/3/2017	Oakton	1.48	4.1E-07	1.23E-05	84067	
D00004770	4.52	3.55	18.90	9/3/2017	Oakton	0.97	3.0E-05	2.82E-04	3974	
D00004787	4.45	2.64	19.10	9/3/2017	Oakton	1.81	3.5E-05	2.29E-03	443	
D00006211	4.16	3.20	18.50	9/3/2017	Oakton	0.96	6.9E-05	6.31E-04	1780	
D00006237	6.52	5.15	18.20	9/3/2017	Oakton	1.37	3.0E-07	7.08E-06	147548	
D00006375	4.57	3.02	18.10	9/3/2017	Oakton	1.55	2.7E-05	9.55E-04	1077	
D00006387	5.42	2.94	18.30	9/3/2017	Oakton	2.48	3.8E-06	1.15E-03	874	
D00006543	4.46	3.24	18.30	9/3/2017	Oakton	1.22	3.5E-05	5.75E-04	1849	
D00006548	6.21	5.16	18.30	9/3/2017	Oakton	1.05	6.2E-07	6.92E-06	158687	
D00006555	5.50	2.91	18.00	9/3/2017	Oakton	2.59	3.2E-06	1.23E-03	815	
D00006556	5.79	4.74	18.30	9/3/2017	Oakton	1.05	1.6E-06	1.82E-05	60331	
_pH4STD	3.95	-	32.3	9/4/2017	Oakton	####	1.1E-04	#VALUE!	#VALUE!	
_pH7STD	7.01	-	32.3	9/4/2017	Oakton	####	9.8E-08	#VALUE!	#VALUE!	
_pH10STD	9.95	-	32.4	9/4/2017	Oakton	####	1.1E-10	#VALUE!	#VALUE!	
D00006557	6.21	5.43	31.30	9/4/2017	Oakton	0.78	6.2E-07	3.72E-06	322710	
D00006573	3.87	3.27	30.60	9/4/2017	Oakton	0.60	1.3E-04	5.37E-04	2487	
D00006702	4.16	3.07	29.60	9/4/2017	Oakton	1.09	6.9E-05	8.51E-04	1279	
D00006703	4.39	3.80	28.90	9/4/2017	Oakton	0.59	4.1E-05	1.58E-04	8492	
D00006704	3.84	3.08	28.30	9/4/2017	Oakton	0.76	1.4E-04	8.32E-04	1455	
D00006705	3.50	2.98	26.80	9/4/2017	Oakton	0.52	3.2E-04	1.05E-03	1368	
D00006706	3.81	3.63	25.80	9/4/2017	Oakton	0.18	1.5E-04	2.34E-04	12572	
D00006707	4.22	2.82	24.90	9/4/2017	Oakton	1.40	6.0E-05	1.51E-03	688	
D00006708	4.69	3.73	24.40	9/4/2017	Oakton	0.96	2.0E-05	1.86E-04	6032	
D00006709	4.14	2.84	24.10	9/4/2017	Oakton	1.30	7.2E-05	1.45E-03	728	
D00006710	4.14	3.61	23.60	9/4/2017	Oakton	0.53	7.2E-05	2.45E-04	5779	
D00006711	5.21	4.16	23.10	9/4/2017	Oakton	1.05	6.2E-06	6.92E-05	15869	
D00006712	5.63	4.64	22.70	9/4/2017	Oakton	0.99	2.3E-06	2.29E-05	48628	
D00006713	3.38	2.82	22.30	9/4/2017	Oakton	0.56	4.2E-04	1.51E-03	912	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006714	6.20	5.33	21.90	9/4/2017	Oakton	0.87	6.3E-07	4.68E-06	247134	
D00006715	5.61	4.10	21.50	9/4/2017	Oakton	1.51	2.5E-06	7.94E-05	12991	
D00006716	4.65	3.97	21.10	9/4/2017	Oakton	0.68	2.2E-05	1.07E-04	11797	
D00006717	5.23	3.44	20.60	9/4/2017	Oakton	1.79	5.9E-06	3.63E-04	2800	
D00006718	4.84	3.03	19.90	9/4/2017	Oakton	1.81	1.4E-05	9.33E-04	1088	
D00006719	5.79	4.97	19.50	9/4/2017	Oakton	0.82	1.6E-06	1.07E-05	109970	
D00006720	4.29	3.18	18.80	9/4/2017	Oakton	1.11	5.1E-05	6.61E-04	1641	
D00006721	4.28	3.44	17.40	9/4/2017	Oakton	0.84	5.2E-05	3.63E-04	3220	
D00006722	2.82	2.45	16.60	9/4/2017	Oakton	0.37	1.5E-03	3.55E-03	492	
D00006845	4.12	3.48	16.50	9/4/2017	Oakton	0.64	7.6E-05	3.31E-04	3917	
D00006944	6.63	5.43	16.40	9/4/2017	Oakton	1.20	2.3E-07	3.72E-06	287280	
D00006945	4.32	3.23	16.10	9/4/2017	Oakton	1.09	4.8E-05	5.89E-04	1848	
D00007140	3.94	3.14	15.80	9/4/2017	Oakton	0.80	1.1E-04	7.24E-04	1640	
D00007170	6.03	3.44	15.70	9/4/2017	Oakton	2.59	9.3E-07	3.63E-04	2761	
D00007197	5.44	4.66	15.40	9/4/2017	Oakton	0.78	3.6E-06	2.19E-05	54804	
D00007986	4.10	2.88	15.20	9/4/2017	Oakton	1.22	7.9E-05	1.32E-03	807	
D00004776	4.79	3.69	15.10	9/4/2017	Oakton	1.10	1.6E-05	2.04E-04	5320	
D00004779	7.42	4.98	15.10	9/4/2017	Oakton	2.44	3.8E-08	1.05E-05	95847	
D00004780	7.85	4.56	15.20	9/4/2017	Oakton	3.29	1.4E-08	2.75E-05	36326	
D00004781	4.23	2.65	15.30	9/4/2017	Oakton	1.58	5.9E-05	2.24E-03	459	
D00004878	5.51	4.26	14.80	9/4/2017	Oakton	1.25	3.1E-06	5.50E-05	19281	
D00006216	4.01	2.84	14.50	9/4/2017	Oakton	1.17	9.8E-05	1.45E-03	742	
D00006243	4.65	3.40	14.30	9/4/2017	Oakton	1.25	2.2E-05	3.98E-04	2662	
D00006252	3.47	2.65	14.30	9/4/2017	Oakton	0.82	3.4E-04	2.24E-03	526	
D00006381	4.80	4.60	14.80	9/4/2017	Oakton	0.20	1.6E-05	2.51E-05	107876	Added 2nd drop of Acid (4.45) Sample was 60 mL and when saturated enough for testing reached 80 mL
_GravelPitSTD	8.39	4.24	14.5	9/4/2017	Oakton	4.15	4.1E-09	5.75E-05	17379	
_pH4STD	3.92	-	15.4	9/4/2017	Oakton	####	1.2E-04	#VALUE!	#VALUE!	
_pH7STD	7.26	-	15.5	9/4/2017	Oakton	####	5.5E-08	#VALUE!	#VALUE!	
_pH10STD	10.13	-	15.7	9/4/2017	Oakton	####	7.4E-11	#VALUE!	#VALUE!	
D00006392	4.33	2.70	14.20	9/4/2017	Oakton	1.63	4.7E-05	2.00E-03	513	
D00006426	3.57	2.95	14.40	9/4/2017	Oakton	0.62	2.7E-04	1.12E-03	1173	
D00006577	3.65	2.59	16.20	9/4/2017	Oakton	1.06	2.2E-04	2.57E-03	426	
D00006723	4.43	3.08	14.30	9/4/2017	Oakton	1.35	3.7E-05	8.32E-04	1258	
D00006724	4.98	2.69	14.60	9/4/2017	Oakton	2.29	1.0E-05	2.04E-03	492	
D00006725	4.95	4.25	14.90	9/4/2017	Oakton	0.70	1.1E-05	5.62E-05	22215	
D00006726	4.61	3.49	15.10	9/4/2017	Oakton	1.12	2.5E-05	3.24E-04	3344	
D00006727	4.19	3.39	15.40	9/4/2017	Oakton	0.80	6.5E-05	4.07E-04	2917	
D00006728	4.05	3.00	15.10	9/4/2017	Oakton	1.05	8.9E-05	1.00E-03	1098	
D00006729	4.31	2.65	15.00	9/4/2017	Oakton	1.66	4.9E-05	2.24E-03	457	
D00006730	4.41	2.88	15.20	9/4/2017	Oakton	1.53	3.9E-05	1.32E-03	782	
D00006731	4.10	2.66	15.60	9/4/2017	Oakton	1.44	7.9E-05	2.19E-03	474	
D00006732	4.07	2.73	15.60	9/4/2017	Oakton	1.34	8.5E-05	1.86E-03	563	
D00006733	4.04	2.61	15.40	9/4/2017	Oakton	1.43	9.1E-05	2.45E-03	423	
D00006734	4.13	2.84	15.50	9/4/2017	Oakton	1.29	7.4E-05	1.45E-03	729	
_pH4STD	3.93		18.3	9/4/2017	Oakton	3.93	1.2E-04	1.00E+00	1	
_pH7STD	7.06		18.4	9/4/2017	Oakton	7.06	8.7E-08	1.00E+00	1	
_pH10STD	10.11		18.5	9/4/2017	Oakton	10.11	7.8E-11	1.00E+00	1	
D00006735	4.47	2.62	18.20	9/4/2017	Oakton	1.85	3.4E-05	2.40E-03	423	
D00006782	4.80	3.89	18.30	9/4/2017	Oakton	0.91	1.6E-05	1.29E-04	8851	
D00006784	4.08	2.77	18.10	9/4/2017	Oakton	1.31	8.3E-05	1.70E-03	619	
D00006786	3.28	2.60	17.90	9/4/2017	Oakton	0.68	5.2E-04	2.51E-03	503	
D00006788	4.87	3.71	17.90	9/4/2017	Oakton	1.16	1.3E-05	1.95E-04	5510	
D00006850	4.09	2.90	17.70	9/4/2017	Oakton	1.19	8.1E-05	1.26E-03	849	
D00006928	5.98	5.26	17.90	9/4/2017	Oakton	0.72	1.0E-06	5.50E-06	224806	
D00006950	7.02	5.75	17.60	9/4/2017	Oakton	1.27	9.5E-08	1.78E-06	594255	
D00007175	3.60	2.74	17.40	9/4/2017	Oakton	0.86	2.5E-04	1.82E-03	638	
D00007202	6.95	4.59	18.30	9/4/2017	Oakton	2.36	1.1E-07	2.57E-05	39075	
D00007388	3.85	2.90	17.30	9/4/2017	Oakton	0.95	1.4E-04	1.26E-03	895	
D00007391	5.12	3.21	17.10	9/4/2017	Oakton	1.91	7.6E-06	6.17E-04	1642	
D00007399	5.19	3.88	16.90	9/4/2017	Oakton	1.31	6.5E-06	1.32E-04	7976	
D00007401	6.62	3.29	16.70	9/4/2017	Oakton	3.33	2.4E-07	5.13E-04	1951	
D00007402	5.01	4.26	16.80	9/4/2017	Oakton	0.75	9.8E-06	5.50E-05	22133	
D00004691	4.07	2.99	16.90	9/4/2017	Oakton	1.08	8.5E-05	1.02E-03	1066	
D00004692	5.38	3.99	17.00	9/4/2017	Oakton	1.39	4.2E-06	1.02E-04	10187	
D00004693	5.39	3.34	16.90	9/4/2017	Oakton	2.05	4.1E-06	4.57E-04	2207	
D00004694	5.57	3.12	16.90	9/4/2017	Oakton	2.45	2.7E-06	7.59E-04	1323	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00004695	4.17	3.42	16.90	9/4/2017	Oakton	0.75	6.8E-05	3.80E-04	3199	
D00004696	4.54	3.21	16.90	9/4/2017	Oakton	1.33	2.9E-05	6.17E-04	1701	
D00004697	4.68	3.20	17.00	9/4/2017	Oakton	1.48	2.1E-05	6.31E-04	1639	
D00004751	6.03	4.61	18.40	9/4/2017	Oakton	1.42	9.3E-07	2.45E-05	42348	
D00004752	5.75	4.01	18.40	9/4/2017	Oakton	1.74	1.8E-06	9.77E-05	10423	
D00004753	5.27	3.10	18.40	9/4/2017	Oakton	2.17	5.4E-06	7.94E-04	1267	
_GravelPitSTD	8.11	4.18	18.4	9/4/2017	Oakton	3.93	7.8E-09	6.61E-05	15137	
_pH4STD	3.92	-	18.7	9/4/2017	Oakton	####	1.2E-04	#VALUE!	#VALUE!	
_pH7STD	7.08	-	18.8	9/4/2017	Oakton	####	8.3E-08	#VALUE!	#VALUE!	
_pH10STD	10.11	-	19.0	9/4/2017	Oakton	####	7.8E-11	#VALUE!	#VALUE!	
D00004754	5.64	3.20	18.80	9/4/2017	Oakton	2.44	2.3E-06	6.31E-04	1591	
D00004755	4.20	2.93	18.40	9/4/2017	Oakton	1.27	6.3E-05	1.17E-03	899	
D00004756	4.77	3.09	17.90	9/4/2017	Oakton	1.68	1.7E-05	8.13E-04	1257	
D00004855	5.47	3.42	17.70	9/4/2017	Oakton	2.05	3.4E-06	3.80E-04	2654	
D00004857	5.92	3.14	17.80	9/4/2017	Oakton	2.78	1.2E-06	7.24E-04	1383	
D00004858	5.37	3.38	17.80	9/4/2017	Oakton	1.99	4.3E-06	4.17E-04	2424	
D00004863	5.40	2.92	17.90	9/4/2017	Oakton	2.48	4.0E-06	1.20E-03	835	
D00004864	5.64	3.47	17.60	9/4/2017	Oakton	2.17	2.3E-06	3.39E-04	2971	
D00004965	4.84	3.35	17.40	9/4/2017	Oakton	1.49	1.4E-05	4.47E-04	2314	
D00006101	4.83	3.58	17.60	9/4/2017	Oakton	1.25	1.5E-05	2.63E-04	4028	
D00006149	4.53	2.97	17.60	9/4/2017	Oakton	1.56	3.0E-05	1.07E-03	960	
D00006160	5.69	3.51	17.60	9/4/2017	Oakton	2.18	2.0E-06	3.09E-04	3257	
D00006161	5.70	3.58	17.50	9/4/2017	Oakton	2.12	2.0E-06	2.63E-04	3831	
D00006165	7.31	4.21	17.30	9/4/2017	Oakton	3.10	4.9E-08	6.17E-05	16231	
D00006166	7.40	4.60	17.00	9/4/2017	Oakton	2.80	4.0E-08	2.51E-05	39874	
D00006222	3.72	2.43	17.20	9/4/2017	Oakton	1.29	1.9E-04	3.72E-03	284	
D00006248	7.53	5.29	17.40	9/4/2017	Oakton	2.24	3.0E-08	5.13E-06	196113	
D00006257	5.26	3.92	17.40	9/4/2017	Oakton	1.34	5.5E-06	1.20E-04	8716	
D00006431	4.27	2.76	17.10	9/4/2017	Oakton	1.51	5.4E-05	1.74E-03	594	
D00006451	5.85	4.72	17.40	9/4/2017	Oakton	1.13	1.4E-06	1.91E-05	56683	
D00006583	6.71	5.10	17.40	9/4/2017	Oakton	1.61	1.9E-07	7.94E-06	129061	
D00006739	5.46	2.71	17.40	9/4/2017	Oakton	2.75	3.5E-06	1.95E-03	514	
_pH4STD	3.91	-	35.4	9/5/2017	Oakton	####	1.2E-04	#VALUE!	#VALUE!	
_pH7STD	6.97	-	34.1	9/5/2017	Oakton	####	1.1E-07	#VALUE!	#VALUE!	
_pH10STD	9.92	-	33.4	9/5/2017	Oakton	####	1.2E-10	#VALUE!	#VALUE!	
D00006740	6.10	4.36	34.40	9/5/2017	Oakton	1.74	7.9E-07	4.37E-05	23333	
D00006790	3.74	3.12	33.30	9/5/2017	Oakton	0.62	1.8E-04	7.59E-04	1734	
D00006824	4.04	3.68	32.40	9/5/2017	Oakton	0.36	9.1E-05	2.09E-04	8494	
D00006829	6.67	5.43	31.70	9/5/2017	Oakton	1.24	2.1E-07	3.72E-06	285587	
D00006842	5.68	5.19	31.40	9/5/2017	Oakton	0.49	2.1E-06	6.46E-06	228977	
D00006855	6.19	4.43	29.80	9/5/2017	Oakton	1.76	6.5E-07	3.72E-05	27391	
D00006933	6.45	5.06	28.70	9/5/2017	Oakton	1.39	3.5E-07	8.71E-06	119691	
D00006955	6.36	5.85	28.60	9/5/2017	Oakton	0.51	4.4E-07	1.41E-06	1024567	
D00006971	6.39	5.12	28.40	9/5/2017	Oakton	1.27	4.1E-07	7.59E-06	139307	
D00006973	7.53	4.75	27.60	9/5/2017	Oakton	2.78	3.0E-08	1.78E-05	56328	
D00006981	5.17	3.76	27.00	9/5/2017	Oakton	1.41	6.8E-06	1.74E-04	5987	
D00006982	5.22	4.59	26.70	9/5/2017	Oakton	0.63	6.0E-06	2.57E-05	50817	
D00006983	5.65	4.66	26.60	9/5/2017	Oakton	0.99	2.2E-06	2.19E-05	50919	
D00006984	5.61	4.41	26.00	9/5/2017	Oakton	1.20	2.5E-06	3.89E-05	27435	
D00006985	4.57	3.10	25.70	9/5/2017	Oakton	1.47	2.7E-05	7.94E-04	1303	
D00007181	4.82	3.71	25.40	9/5/2017	Oakton	1.11	1.5E-05	1.95E-04	5560	
D00007207	5.67	3.75	25.20	9/5/2017	Oakton	1.92	2.1E-06	1.78E-04	5692	
D00007294	5.21	2.85	25.10	9/5/2017	Oakton	2.36	6.2E-06	1.41E-03	711	
D00007336	4.31	3.23	24.70	9/5/2017	Oakton	1.08	4.9E-05	5.89E-04	1852	
D00007494	4.66	3.76	24.50	9/5/2017	Oakton	0.90	2.2E-05	1.74E-04	6583	
D00004960	5.25	4.30	24.00	9/5/2017	Oakton	0.95	5.6E-06	5.01E-05	22474	
D00004977	5.91	4.30	23.70	9/5/2017	Oakton	1.61	1.2E-06	5.01E-05	20455	
D00004984	5.46	3.93	23.60	9/5/2017	Oakton	1.53	3.5E-06	1.17E-04	8770	
D00004992	3.80	3.00	23.70	9/5/2017	Oakton	0.80	1.6E-04	1.00E-03	1188	
D00004994	5.34	4.86	21.50	9/5/2017	Oakton	0.48	4.6E-06	1.38E-05	108308	
D00006106	5.37	4.38	21.40	9/5/2017	Oakton	0.99	4.3E-06	4.17E-05	26723	
D00006227	5.55	4.29	21.60	9/5/2017	Oakton	1.26	2.8E-06	5.13E-05	20632	
D00006263	4.20	3.13	21.80	9/5/2017	Oakton	1.07	6.3E-05	7.41E-04	1474	
D00006333	4.41	3.40	21.80	9/5/2017	Oakton	1.01	3.9E-05	3.98E-04	2784	
D00006335	6.60	5.44	21.80	9/5/2017	Oakton	1.16	2.5E-07	3.63E-06	295894	
D00006344	7.01	4.37	21.70	9/5/2017	Oakton	2.64	9.8E-08	4.27E-05	23496	
D00006350	6.63	5.33	21.70	9/5/2017	Oakton	1.30	2.3E-07	4.68E-06	225077	
D00006436	4.85	3.82	21.80	9/5/2017	Oakton	1.03	1.4E-05	1.51E-04	7287	
D00006470	6.81	5.53	21.90	9/5/2017	Oakton	1.28	1.5E-07	2.95E-06	357612	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006588	5.71	3.89	21.80	9/5/2017	Oakton	1.82	1.9E-06	1.29E-04	7882	
D00006653	6.89	4.78	21.70	9/5/2017	Oakton	2.11	1.3E-07	1.66E-05	60727	
D00006745	4.55	3.38	21.60	9/5/2017	Oakton	1.17	2.8E-05	4.17E-04	2573	
D00006795	4.44	3.65	22.00	9/5/2017	Oakton	0.79	3.6E-05	2.24E-04	5332	
D00006821	4.54	3.30	22.40	9/5/2017	Oakton	1.24	2.9E-05	5.01E-04	2117	
D00006834	5.01	4.06	22.80	9/5/2017	Oakton	0.95	9.8E-06	8.71E-05	12933	
_GravelPitSTD	8.29	4.85	22.9	9/5/2017	Oakton	3.44	5.1E-09	1.41E-05	70820	
_pH4STD	3.91	-	22.8	9/5/2017	Oakton	####	1.2E-04	#VALUE!	#VALUE!	
_pH7STD	7.04	-	22.5	9/5/2017	Oakton	####	9.1E-08	#VALUE!	#VALUE!	
_pH10STD	10.05	-	22.4	9/5/2017	Oakton	####	8.9E-11	#VALUE!	#VALUE!	
D00006836	6.02	4.88	22.10	9/5/2017	Oakton	1.14	9.5E-07	1.32E-05	81782	
D00006861	5.98	5.00	22.50	9/5/2017	Oakton	0.98	1.0E-06	1.00E-05	111696	
D00006876	7.05	5.41	23.10	9/5/2017	Oakton	1.64	8.9E-08	3.89E-06	263066	
D00006877	8.28	6.10	23.10	9/5/2017	Oakton	2.18	5.2E-09	7.94E-07	1267298	
D00006887	6.51	5.44	23.30	9/5/2017	Oakton	1.07	3.1E-07	3.63E-06	301046	
D00006888	6.80	5.47	25.60	9/5/2017	Oakton	1.33	1.6E-07	3.39E-06	309602	
D00006889	6.03	4.76	25.80	9/5/2017	Oakton	1.27	9.3E-07	1.74E-05	60810	
D00006890	7.09	5.83	25.70	9/5/2017	Oakton	1.26	8.1E-08	1.48E-06	715397	
D00006891	4.43	3.97	25.20	9/5/2017	Oakton	0.46	3.7E-05	1.07E-04	14286	
D00006892	4.98	3.79	25.30	9/5/2017	Oakton	1.19	1.0E-05	1.62E-04	6592	
D00006893	4.96	4.54	25.00	9/5/2017	Oakton	0.42	1.1E-05	2.88E-05	55942	
D00006894	4.24	3.52	24.70	9/5/2017	Oakton	0.72	5.8E-05	3.02E-04	4091	
D00006898	6.60	5.33	24.40	9/5/2017	Oakton	1.27	2.5E-07	4.68E-06	225929	
D00006938	5.74	4.78	24.20	9/5/2017	Oakton	0.96	1.8E-06	1.66E-05	67677	
D00007186	7.14	5.21	24.10	9/5/2017	Oakton	1.93	7.2E-08	6.17E-06	164109	
D00007212	6.81	5.53	24.00	9/5/2017	Oakton	1.28	1.5E-07	2.95E-06	357612	
D00007231	6.35	5.49	23.90	9/5/2017	Oakton	0.86	4.5E-07	3.24E-06	358519	
D00007299	5.36	3.73	23.90	9/5/2017	Oakton	1.63	4.4E-06	1.86E-04	5499	
D00007342	4.42	3.52	23.70	9/5/2017	Oakton	0.90	3.8E-05	3.02E-04	3788	
D00007489	4.98	4.59	23.80	9/5/2017	Oakton	0.39	1.0E-05	2.57E-05	65648	
D00007573	5.57	4.63	23.70	9/5/2017	Oakton	0.94	2.7E-06	2.34E-05	48191	
D00007574	8.05	6.30	23.20	9/5/2017	Oakton	1.75	8.9E-09	5.01E-07	2031386	
D00006111	6.94	5.25	23.10	9/5/2017	Oakton	1.69	1.1E-07	5.62E-06	181534	
D00006144	4.89	3.67	23.20	9/5/2017	Oakton	1.22	1.3E-05	2.14E-04	4977	
D00006232	5.81	3.39	23.00	9/5/2017	Oakton	2.42	1.5E-06	4.07E-04	2464	
D00006268	5.54	4.35	23.00	9/5/2017	Oakton	1.19	2.9E-06	4.47E-05	23932	
D00006442	5.74	4.93	23.00	9/5/2017	Oakton	0.81	1.8E-06	1.17E-05	100712	
D00006457	5.67	5.09	22.90	9/5/2017	Oakton	0.58	2.1E-06	8.13E-06	166935	
D00006465	6.74	4.83	22.70	9/5/2017	Oakton	1.91	1.8E-07	1.48E-05	68450	
D00006593	6.40	5.46	22.60	9/5/2017	Oakton	0.94	4.0E-07	3.47E-06	325811	
D00006658	5.32	4.19	22.60	9/5/2017	Oakton	1.13	4.8E-06	6.46E-05	16728	
D00006675	5.86	5.16	22.70	9/5/2017	Oakton	0.70	1.4E-06	6.92E-06	180573	
D00006750	7.03	4.16	22.00	9/5/2017	Oakton	2.87	9.3E-08	6.92E-05	14474	
D00006801	5.61	4.20	21.90	9/5/2017	Oakton	1.41	2.5E-06	6.31E-05	16490	
D00006815	4.24	3.17	22.10	9/5/2017	Oakton	1.07	5.8E-05	6.76E-04	1617	
D00007191	5.33	4.04	22.10	9/5/2017	Oakton	1.29	4.7E-06	9.12E-05	11558	
D00007226	6.30	5.36	22.20	9/5/2017	Oakton	0.94	5.0E-07	4.37E-06	258801	
D00007305	5.99	4.38	22.20	9/5/2017	Oakton	1.61	1.0E-06	4.17E-05	24592	
D00007347	5.15	3.75	22.10	9/5/2017	Oakton	1.40	7.1E-06	1.78E-04	5857	
D00007379	5.69	4.45	22.10	9/5/2017	Oakton	1.24	2.0E-06	3.55E-05	29905	
_GravelPitSTD	8.47	4.74	22.1	9/5/2017	Oakton	3.73	3.4E-09	1.82E-05	54964	
_pH4STD	3.93	-	22.2	9/5/2017	Oakton	####	1.2E-04	#VALUE!	#VALUE!	
_pH7STD	7.06	-	22.1	9/5/2017	Oakton	####	8.7E-08	#VALUE!	#VALUE!	
_pH10STD	10.07	-	22.1	9/5/2017	Oakton	####	8.5E-11	#VALUE!	#VALUE!	
D00007380	5.35	4.39	22.10	9/5/2017	Oakton	0.96	4.5E-06	4.07E-05	27570	
D00007462	6.18	4.02	22.10	9/5/2017	Oakton	2.16	6.6E-07	9.55E-05	10544	
D00007463	6.45	2.73	21.90	9/5/2017	Oakton	3.72	3.5E-07	1.86E-03	537	
D00007473	7.29	4.00	21.80	9/5/2017	Oakton	3.29	5.1E-08	1.00E-04	10005	
D00007474	5.34	3.80	21.90	9/5/2017	Oakton	1.54	4.6E-06	1.58E-04	6497	
D00007481	5.37	4.73	22.20	9/5/2017	Oakton	0.64	4.3E-06	1.86E-05	69662	
D00007482	4.73	2.98	22.10	9/5/2017	Oakton	1.75	1.9E-05	1.05E-03	972	
D00007566	5.76	4.64	22.10	9/5/2017	Oakton	1.12	1.7E-06	2.29E-05	47235	
D00007579	5.77	3.35	21.70	9/5/2017	Oakton	2.42	1.7E-06	4.47E-04	2247	
D00007580	5.81	3.59	21.10	9/5/2017	Oakton	2.22	1.5E-06	2.57E-04	3914	
D00007590	6.56	5.59	21.90	9/5/2017	Oakton	0.97	2.8E-07	2.57E-06	435735	
D00007623	5.28	3.58	21.80	9/5/2017	Oakton	1.70	5.2E-06	2.63E-04	3879	
D00007626	4.73	2.91	21.90	9/5/2017	Oakton	1.82	1.9E-05	1.23E-03	825	
D00007627	5.05	3.46	21.80	9/5/2017	Oakton	1.59	8.9E-06	3.47E-04	2960	
D00007628	4.91	3.17	21.80	9/5/2017	Oakton	1.74	1.2E-05	6.76E-04	1507	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007629	6.45	4.64	21.80	9/5/2017	Oakton	1.81	3.5E-07	2.29E-05	44338	
D00007630	6.40	4.26	21.70	9/5/2017	Oakton	2.14	4.0E-07	5.50E-05	18330	
D00007631	4.58	3.61	21.50	9/5/2017	Oakton	0.97	2.6E-05	2.45E-04	4563	
_pH4STD	3.86	-	38.9	9/6/2017	Oakton	####	1.4E-04	#VALUE!	#VALUE!	
_pH7STD	6.95	-	39.1	9/6/2017	Oakton	####	1.1E-07	#VALUE!	#VALUE!	
_pH10STD	9.84	-	39.7	9/6/2017	Oakton	####	1.4E-10	#VALUE!	#VALUE!	
D00006116	4.23	2.92	37.10	9/6/2017	Oakton	1.31	5.9E-05	1.20E-03	875	
D00006138	4.22	3.41	34.50	9/6/2017	Oakton	0.81	6.0E-05	3.89E-04	3041	
D00006197	4.38	3.35	33.90	9/6/2017	Oakton	1.03	4.2E-05	4.47E-04	2469	
D00006200	4.67	3.82	32.40	9/6/2017	Oakton	0.85	2.1E-05	1.51E-04	7694	
D00006273	5.24	3.97	31.30	9/6/2017	Oakton	1.27	5.8E-06	1.07E-04	9862	
D00006301	5.07	3.41	30.90	9/6/2017	Oakton	1.66	8.5E-06	3.89E-04	2628	
D00006303	4.40	3.01	30.20	9/6/2017	Oakton	1.39	4.0E-05	9.77E-04	1067	
D00006305	4.96	3.67	29.60	9/6/2017	Oakton	1.29	1.1E-05	2.14E-04	4930	
D00006308	6.25	4.24	29.20	9/6/2017	Oakton	2.01	5.6E-07	5.75E-05	17550	
D00006449	3.76	2.70	28.60	9/6/2017	Oakton	1.06	1.7E-04	2.00E-03	549	
D00006458	5.23	3.03	28.60	9/6/2017	Oakton	2.20	5.9E-06	9.33E-04	1078	
D00006598	5.40	3.43	28.20	9/6/2017	Oakton	1.97	4.0E-06	3.72E-04	2721	
D00006670	6.62	5.21	27.50	9/6/2017	Oakton	1.41	2.4E-07	6.17E-06	168746	
D00006755	4.71	2.91	27.40	9/6/2017	Oakton	1.80	1.9E-05	1.23E-03	826	
D00006806	5.91	4.85	27.30	9/6/2017	Oakton	1.06	1.2E-06	1.41E-05	77549	
D00006810	6.01	5.82	27.20	9/6/2017	Oakton	0.19	9.8E-07	1.51E-06	1864544	
D00006812	6.28	4.68	27.00	9/6/2017	Oakton	1.60	5.2E-07	2.09E-05	49096	
D00007196	4.81	3.17	26.50	9/6/2017	Oakton	1.64	1.5E-05	6.76E-04	1514	
D00007221	5.17	3.88	26.30	9/6/2017	Oakton	1.29	6.8E-06	1.32E-04	7996	
D00007310	4.71	2.93	26.10	9/6/2017	Oakton	1.78	1.9E-05	1.17E-03	866	
D00007352	4.63	3.09	26.10	9/6/2017	Oakton	1.54	2.3E-05	8.13E-04	1267	
D00007374	4.90	2.93	23.80	9/6/2017	Oakton	1.97	1.3E-05	1.17E-03	860	
D00007468	5.47	3.80	25.80	9/6/2017	Oakton	1.67	3.4E-06	1.58E-04	6447	
D00007585	5.75	4.26	23.80	9/6/2017	Oakton	1.49	1.8E-06	5.50E-05	18806	
D00007642	7.21	4.20	23.80	9/6/2017	Oakton	3.01	6.2E-08	6.31E-05	15864	
D00007658	4.53	3.74	24.20	9/6/2017	Oakton	0.79	3.0E-05	1.82E-04	6559	
D00006121	5.29	4.20	24.10	9/6/2017	Oakton	1.09	5.1E-06	6.31E-05	17251	
D00006133	5.84	4.02	24.10	9/6/2017	Oakton	1.82	1.4E-06	9.55E-05	10632	
D00006283	4.89	3.11	24.20	9/6/2017	Oakton	1.78	1.3E-05	7.76E-04	1310	
D00006314	4.64	3.42	24.10	9/6/2017	Oakton	1.22	2.3E-05	3.80E-04	2799	
D00006486	4.49	3.14	24.10	9/6/2017	Oakton	1.35	3.2E-05	7.24E-04	1445	
D00006665	4.92	3.68	24.10	9/6/2017	Oakton	1.24	1.2E-05	2.09E-04	5079	
D00006758	4.99	3.70	24.10	9/6/2017	Oakton	1.29	1.0E-05	2.00E-04	5283	
D00006759	6.68	5.11	24.20	9/6/2017	Oakton	1.57	2.1E-07	7.76E-06	132388	
D00006761	6.09	4.61	24.30	9/6/2017	Oakton	1.48	8.1E-07	2.45E-05	42133	
D00006762	5.80	3.23	24.40	9/6/2017	Oakton	2.57	1.6E-06	5.89E-04	1703	
D00006763	4.71	3.24	24.00	9/6/2017	Oakton	1.47	1.9E-05	5.75E-04	1799	
D00006921	6.92	5.35	24.30	9/6/2017	Oakton	1.57	1.2E-07	4.47E-06	230064	
D00007316	4.75	2.71	24.20	9/6/2017	Oakton	2.04	1.8E-05	1.95E-03	518	
D00007357	4.96	3.48	24.20	9/6/2017	Oakton	1.48	1.1E-05	3.31E-04	3123	
_GravelPitSTD	8.68	4.83	24.2	9/6/2017	Oakton	3.85	2.1E-09	1.48E-05	67618	
_pH4STD	3.90	-	23.7	9/6/2017	Oakton	####	1.3E-04	#VALUE!	#VALUE!	
_pH7STD	7.01	-	23.3	9/6/2017	Oakton	####	9.8E-08	#VALUE!	#VALUE!	
_pH10STD	10.02	-	23.2	9/6/2017	Oakton	####	9.5E-11	#VALUE!	#VALUE!	
D00007370	5.08	2.73	24.20	9/6/2017	Oakton	2.35	8.3E-06	1.86E-03	539	
D00007428	4.16	2.73	23.80	9/6/2017	Oakton	1.43	6.9E-05	1.86E-03	558	
D00007433	4.48	3.23	23.70	9/6/2017	Oakton	1.25	3.3E-05	5.89E-04	1799	
D00007437	4.48	2.78	23.90	9/6/2017	Oakton	1.70	3.3E-05	1.66E-03	615	
D00007443	4.84	3.46	23.90	9/6/2017	Oakton	1.38	1.4E-05	3.47E-04	3009	
D00007548	5.16	2.99	24.20	9/6/2017	Oakton	2.17	6.9E-06	1.02E-03	984	
D00007549	4.80	3.32	24.30	9/6/2017	Oakton	1.48	1.6E-05	4.79E-04	2161	
D00007550	4.91	2.36	24.10	9/6/2017	Oakton	2.55	1.2E-05	4.37E-03	230	
D00007551	4.86	2.89	21.40	9/6/2017	Oakton	1.97	1.4E-05	1.29E-03	785	
D00007552	4.95	2.71	21.90	9/6/2017	Oakton	2.24	1.1E-05	1.95E-03	516	
D00007553	5.07	2.63	22.20	9/6/2017	Oakton	2.44	8.5E-06	2.34E-03	428	
D00007664	6.68	4.63	22.40	9/6/2017	Oakton	2.05	2.1E-07	2.34E-05	43042	
D00004618	6.14	4.38	22.10	9/6/2017	Oakton	1.76	7.2E-07	4.17E-05	24413	
D00004619	7.12	5.01	22.40	9/6/2017	Oakton	2.11	7.6E-08	9.77E-06	103130	
D00004620	7.00	4.71	22.50	9/6/2017	Oakton	2.29	1.0E-07	1.95E-05	51551	
D00004658	5.34	3.79	22.40	9/6/2017	Oakton	1.55	4.6E-06	1.62E-04	6345	
D00004659	4.90	4.09	22.40	9/6/2017	Oakton	0.81	1.3E-05	8.13E-05	14557	
D00004660	4.99	3.86	22.40	9/6/2017	Oakton	1.13	1.0E-05	1.38E-04	7824	
D00004665	6.71	4.91	22.20	9/6/2017	Oakton	1.80	1.9E-07	1.23E-05	82592	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00004676	4.25	2.95	22.20	9/6/2017	Oakton	1.30	5.6E-05	1.12E-03	938	
D00004677	5.72	4.47	22.20	9/6/2017	Oakton	1.25	1.9E-06	3.39E-05	31271	
D00004678	4.82	3.65	22.10	9/6/2017	Oakton	1.17	1.5E-05	2.24E-04	4791	
D00006126	8.11	4.71	22.60	9/6/2017	Oakton	3.40	7.8E-09	1.95E-05	51307	
D00006127	7.33	4.50	22.90	9/6/2017	Oakton	2.83	4.7E-08	3.16E-05	31670	
D00006128	4.15	2.95	22.80	9/6/2017	Oakton	1.20	7.1E-05	1.12E-03	951	
D00006288	4.70	3.38	22.60	9/6/2017	Oakton	1.32	2.0E-05	4.17E-04	2519	
D00006491	4.69	3.68	22.70	9/6/2017	Oakton	1.01	2.0E-05	2.09E-04	5305	
D00006497	5.14	3.53	22.80	9/6/2017	Oakton	1.61	7.2E-06	2.95E-04	3474	
D00006768	4.47	3.42	22.70	9/6/2017	Oakton	1.05	3.4E-05	3.80E-04	2888	
D00006901	6.28	3.78	22.70	9/6/2017	Oakton	2.50	5.2E-07	1.66E-04	6045	
D00006909	6.08	4.71	22.90	9/6/2017	Oakton	1.37	8.3E-07	1.95E-05	53571	
D00006912	4.09	2.86	22.80	9/6/2017	Oakton	1.23	8.1E-05	1.38E-03	770	
D00007322	4.93	3.30	22.80	9/6/2017	Oakton	1.63	1.2E-05	5.01E-04	2043	
D00007362	5.98	5.11	22.90	9/6/2017	Oakton	0.87	1.0E-06	7.76E-06	148913	
D00007450	4.50	2.83	22.70	9/6/2017	Oakton	1.67	3.2E-05	1.48E-03	691	
D00007451	6.92	5.22	22.70	9/6/2017	Oakton	1.70	1.2E-07	6.03E-06	169337	
D00007725	5.80	4.39	22.20	9/6/2017	Oakton	1.41	1.6E-06	4.07E-05	25541	
D00007757	4.88	2.76	22.30	9/6/2017	Oakton	2.12	1.3E-05	1.74E-03	580	
D00007777	5.50	3.04	22.30	9/6/2017	Oakton	2.46	3.2E-06	9.12E-04	1100	
D00007778	5.27	2.57	22.60	9/6/2017	Oakton	2.70	5.4E-06	2.69E-03	372	
_GravelPitSTD	8.52	3.53	22.5	9/6/2017	Oakton	4.99	3.0E-09	2.95E-04	3388	
_pH4STD	3.92	-	22.5	9/6/2017	Oakton	####	1.2E-04	#VALUE!	#VALUE!	
_pH7STD	7.07	-	22.4	9/6/2017	Oakton	####	8.5E-08	#VALUE!	#VALUE!	
_pH10STD	10.09	-	22.4	9/6/2017	Oakton	####	8.1E-11	#VALUE!	#VALUE!	
D00007779	4.79	3.89	22.60	9/6/2017	Oakton	0.90	1.6E-05	1.29E-04	8880	
D00007780	5.07	4.09	22.40	9/6/2017	Oakton	0.98	8.5E-06	8.13E-05	13742	
D00004625	5.27	4.17	23.20	9/6/2017	Oakton	1.10	5.4E-06	6.76E-05	16067	
D00004762	5.66	4.26	22.90	9/6/2017	Oakton	1.40	2.2E-06	5.50E-05	18951	
D00004808	5.26	2.87	22.90	9/6/2017	Oakton	2.39	5.5E-06	1.35E-03	744	
D00004810	5.32	4.15	22.90	9/6/2017	Oakton	1.17	4.8E-06	7.08E-05	15150	
D00004816	6.38	4.62	22.80	9/6/2017	Oakton	1.76	4.2E-07	2.40E-05	42424	
D00004818	6.32	5.28	23.00	9/6/2017	Oakton	1.04	4.8E-07	5.25E-06	209668	
D00004826	5.82	3.30	22.80	9/6/2017	Oakton	2.52	1.5E-06	5.01E-04	2001	
D00006501	5.61	3.22	22.70	9/6/2017	Oakton	2.39	2.5E-06	6.03E-04	1666	
D00006502	4.39	3.33	22.70	9/6/2017	Oakton	1.06	4.1E-05	4.68E-04	2342	
D00006503	4.92	3.76	22.80	9/6/2017	Oakton	1.16	1.2E-05	1.74E-04	6182	
D00006504	4.75	3.67	22.80	9/6/2017	Oakton	1.08	1.8E-05	2.14E-04	5102	
_pH4STD	4.06	-	36.8	9/7/2017	Oakton	####	8.7E-05	#VALUE!	#VALUE!	
_pH7STD	7.00	-	36.6	9/7/2017	Oakton	####	1.0E-07	#VALUE!	#VALUE!	
_pH10STD	9.96	-	36.4	9/7/2017	Oakton	####	1.1E-10	#VALUE!	#VALUE!	
D00006505	4.96	3.59	34.80	9/7/2017	Oakton	1.37	1.1E-05	2.57E-04	4064	
D00006506	4.18	3.54	35.10	9/7/2017	Oakton	0.64	6.6E-05	2.88E-04	4498	
D00006507	5.20	3.33	33.30	9/7/2017	Oakton	1.87	6.3E-06	4.68E-04	2167	
D00006508	4.73	3.56	33.20	9/7/2017	Oakton	1.17	1.9E-05	2.75E-04	3894	
D00006509	4.66	3.60	31.30	9/7/2017	Oakton	1.06	2.2E-05	2.51E-04	4361	
D00006510	4.83	3.05	30.60	9/7/2017	Oakton	1.78	1.5E-05	8.91E-04	1141	
D00006511	4.25	3.75	30.20	9/7/2017	Oakton	0.50	5.6E-05	1.78E-04	8224	
D00006512	4.87	4.16	29.90	9/7/2017	Oakton	0.71	1.3E-05	6.92E-05	17955	
D00006513	4.06	3.30	29.20	9/7/2017	Oakton	0.76	8.7E-05	5.01E-04	2415	
D00006514	4.90	4.40	28.30	9/7/2017	Oakton	0.50	1.3E-05	3.98E-05	36736	
D00006515	5.35	3.54	26.60	9/7/2017	Oakton	1.81	4.5E-06	2.88E-04	3522	
D00006516	4.88	3.71	26.90	9/7/2017	Oakton	1.17	1.3E-05	1.95E-04	5500	
D00007132	4.82	4.29	26.30	9/7/2017	Oakton	0.53	1.5E-05	5.13E-05	27662	
D00007915				9/7/2017	Oakton					
D00007927	6.58	5.55	26.30	9/7/2017	Oakton	1.03	2.6E-07	2.82E-06	391335	
D00007942	4.95	3.45	24.50	9/7/2017	Oakton	1.50	1.1E-05	3.55E-04	2910	
D00007977	5.24	4.41	25.10	9/7/2017	Oakton	0.83	5.8E-06	3.89E-05	30166	
D00007991	5.05	3.34	24.20	9/7/2017	Oakton	1.71	8.9E-06	4.57E-04	2231	
D00007992	5.00	3.65	24.30	9/7/2017	Oakton	1.35	1.0E-05	2.24E-04	4676	
D00007993	4.72	3.23	23.80	9/7/2017	Oakton	1.49	1.9E-05	5.89E-04	1755	
D00007994	4.54	3.17	23.90	9/7/2017	Oakton	1.37	2.9E-05	6.76E-04	1545	
D00007995	4.74	3.79	23.70	9/7/2017	Oakton	0.95	1.8E-05	1.62E-04	6945	
D00007996	4.93	3.33	23.70	9/7/2017	Oakton	1.60	1.2E-05	4.68E-04	2193	
D00007997	4.97	3.05	23.30	9/7/2017	Oakton	1.92	1.1E-05	8.91E-04	1136	
D00007998	5.16	3.11	23.20	9/7/2017	Oakton	2.05	6.9E-06	7.76E-04	1300	
D00007999	4.55	3.01	23.60	9/7/2017	Oakton	1.54	2.8E-05	9.77E-04	1054	
D00004630	5.19	3.90	23.70	9/7/2017	Oakton	1.29	6.5E-06	1.26E-04	8373	
D00004641	5.44	4.33	23.80	9/7/2017	Oakton	1.11	3.6E-06	4.68E-05	23179	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00004649	7.09	5.39	23.60	9/7/2017	Oakton	1.70	8.1E-08	4.07E-06	250468	
D00004767	6.70	4.40	23.30	9/7/2017	Oakton	2.30	2.0E-07	3.98E-05	25245	
D00004790	6.67	5.34	23.80	9/7/2017	Oakton	1.33	2.1E-07	4.57E-06	229511	
D00004797	6.25	5.59	22.90	9/7/2017	Oakton	0.66	5.6E-07	2.57E-06	497994	
D00004831	5.26	3.48	23.50	9/7/2017	Oakton	1.78	5.5E-06	3.31E-04	3071	
D00004833	6.38	4.35	23.40	9/7/2017	Oakton	2.03	4.2E-07	4.47E-05	22598	
D00006208	4.58	3.68	22.50	9/7/2017	Oakton	0.90	2.6E-05	2.09E-04	5476	
D00006372	4.93	3.54	22.40	9/7/2017	Oakton	1.39	1.2E-05	2.88E-04	3615	
D00006537	7.10	6.29	21.50	9/7/2017	Oakton	0.81	7.9E-08	5.13E-07	2307185	
D00006538	5.52	4.59	22.60	9/7/2017	Oakton	0.93	3.0E-06	2.57E-05	44084	
D00007137	4.64	4.07	22.10	9/7/2017	Oakton	0.57	2.3E-05	8.51E-05	16076	
D00007167	4.64	3.98	21.60	9/7/2017	Oakton	0.66	2.3E-05	1.05E-04	12224	
_GravelPitSTD	8.34	4.86	22.4	9/7/2017	Oakton	3.48	4.6E-09	1.38E-05	72468	
_pH4STD	4.07	-	22.0	9/7/2017	Oakton	####	8.5E-05	#VALUE!	#VALUE!	
_pH7STD	7.08	-	22.6	9/7/2017	Oakton	####	8.3E-08	#VALUE!	#VALUE!	
_pH10STD	10.12	-	19.2	9/7/2017	Oakton	####	7.6E-11	#VALUE!	#VALUE!	
D00007233	4.58	3.91	22.70	9/7/2017	Oakton	0.67	2.6E-05	1.23E-04	10339	
D00007234	6.05	4.62	23.30	9/7/2017	Oakton	1.43	8.9E-07	2.40E-05	43296	
D00007235	5.18	3.90	23.30	9/7/2017	Oakton	1.28	6.6E-06	1.26E-04	8383	
D00007236	6.10	4.43	23.30	9/7/2017	Oakton	1.67	7.9E-07	3.72E-05	27503	
D00007237	4.58	3.29	23.10	9/7/2017	Oakton	1.29	2.6E-05	5.13E-04	2055	
D00007238				9/7/2017	Oakton					
D00007239	4.92	2.93	22.90	9/7/2017	Oakton	1.99	1.2E-05	1.17E-03	860	
D00007240	4.48	3.82	23.50	9/7/2017	Oakton	0.66	3.3E-05	1.51E-04	8457	
D00007241	5.20	3.23	24.10	9/7/2017	Oakton	1.97	6.3E-06	5.89E-04	1717	
D00007242	5.28	2.94	24.10	9/7/2017	Oakton	2.34	5.2E-06	1.15E-03	875	
D00007243	4.81	3.69	24.20	9/7/2017	Oakton	1.12	1.5E-05	2.04E-04	5300	
D00007244	4.44	3.81	23.90	9/7/2017	Oakton	0.63	3.6E-05	1.55E-04	8434	
D00007245	5.05	3.15	24.30	9/7/2017	Oakton	1.90	8.9E-06	7.08E-04	1431	
D00007246	4.91	3.08	24.20	9/7/2017	Oakton	1.83	1.2E-05	8.32E-04	1220	
D00007247	4.60	3.82	23.90	9/7/2017	Oakton	0.78	2.5E-05	1.51E-04	7922	
D00007248	4.45	3.83	24.70	9/7/2017	Oakton	0.62	3.5E-05	1.48E-04	8894	
D00007249	4.76	3.47	34.20	9/7/2017	Oakton	1.29	1.7E-05	3.39E-04	3111	
D00007250	4.76	3.12	24.40	9/7/2017	Oakton	1.64	1.7E-05	7.59E-04	1349	
D00007251	4.57	3.46	23.30	9/7/2017	Oakton	1.11	2.7E-05	3.47E-04	3127	
D00007921	5.13	3.53	23.20	9/7/2017	Oakton	1.60	7.4E-06	2.95E-04	3476	
D00007922	5.77	3.90	23.80	9/7/2017	Oakton	1.87	1.7E-06	1.26E-04	8052	
D00007935	6.16	5.41	23.60	9/7/2017	Oakton	0.75	6.9E-07	3.89E-06	312635	
D00007983	6.22	5.38	23.90	9/7/2017	Oakton	0.84	6.0E-07	4.17E-06	280416	
D00004635	5.30	4.67	23.30	9/7/2017	Oakton	0.63	5.0E-06	2.14E-05	61096	
D00004685	6.28	4.88	23.70	9/7/2017	Oakton	1.40	5.2E-07	1.32E-05	79003	
D00004686	6.79	5.38	23.70	9/7/2017	Oakton	1.41	1.6E-07	4.17E-06	249594	
D00004772	5.86	4.43	23.70	9/7/2017	Oakton	1.43	1.4E-06	3.72E-05	27954	
D00004773	4.64	3.75	23.80	9/7/2017	Oakton	0.89	2.3E-05	1.78E-04	6455	
D00004874	5.76	3.84	23.90	9/7/2017	Oakton	1.92	1.7E-06	1.45E-04	7002	
D00004875	4.54	3.55	23.90	9/7/2017	Oakton	0.99	2.9E-05	2.82E-04	3953	
D00004876	6.28	5.08	24.20	9/7/2017	Oakton	1.20	5.2E-07	8.32E-06	128323	
D00006213				9/7/2017	Oakton					
D00006239	6.41	5.67	24.60	9/7/2017	Oakton	0.74	3.9E-07	2.14E-06	571782	
D00006377	4.52	4.16	24.60	9/7/2017	Oakton	0.36	3.0E-05	6.92E-05	25652	
D00006389	5.86	4.96	24.40	9/7/2017	Oakton	0.90	1.4E-06	1.10E-05	104336	
D00006405	4.75	4.30	24.40	9/7/2017	Oakton	0.45	1.8E-05	5.01E-05	30925	
D00006406	5.35	3.94	23.20	9/7/2017	Oakton	1.41	4.5E-06	1.15E-04	9062	
D00006407	4.34	3.76	22.70	9/7/2017	Oakton	0.58	4.6E-05	1.74E-04	7808	
D00006408	4.35	3.41	22.70	9/7/2017	Oakton	0.94	4.5E-05	3.89E-04	2904	
D00006409	5.10	3.72	22.20	9/7/2017	Oakton	1.38	7.9E-06	1.91E-04	5476	
D00006410	5.03	4.09	21.60	9/7/2017	Oakton	0.94	9.3E-06	8.13E-05	13898	
D00006411	4.78	3.32	21.10	9/7/2017	Oakton	1.46	1.7E-05	4.79E-04	2164	
D00006412	6.62	3.04	20.30	9/7/2017	Oakton	3.58	2.4E-07	9.12E-04	1097	
D00006413	5.02	4.15	20.70	9/7/2017	Oakton	0.87	9.5E-06	7.08E-05	16328	
D00006414	5.46	3.85	20.80	9/7/2017	Oakton	1.61	3.5E-06	1.41E-04	7258	
D00006415	5.35	4.40	24.10	9/7/2017	Oakton	0.95	4.5E-06	3.98E-05	28293	
D00006416	4.97	3.67	23.80	9/7/2017	Oakton	1.30	1.1E-05	2.14E-04	4924	
D00006417	4.90	3.40	24.10	9/7/2017	Oakton	1.50	1.3E-05	3.98E-04	2594	
D00006418	5.25	4.35	24.20	9/7/2017	Oakton	0.90	5.6E-06	4.47E-05	25612	
D00006419	4.38	3.25	24.30	9/7/2017	Oakton	1.13	4.2E-05	5.62E-04	1921	
D00006420	4.96	3.45	24.70	9/7/2017	Oakton	1.51	1.1E-05	3.55E-04	2908	
D00006421	5.09	3.48	24.50	9/7/2017	Oakton	1.61	8.1E-06	3.31E-04	3096	
D00006422	5.75	3.99	24.60	9/7/2017	Oakton	1.76	1.8E-06	1.02E-04	9945	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006545	8.00	5.69	24.40	9/7/2017	Oakton	2.31	1.0E-08	2.04E-06	492189	
D00006546	4.18	5.55	24.20	9/7/2017	Oakton	-1.37	6.6E-05	2.82E-06	-15810	
D00006559	5.04	3.46	24.30	9/7/2017	Oakton	1.58	9.1E-06	3.47E-04	2962	
D00006560	4.50	3.35	24.00	9/7/2017	Oakton	1.15	3.2E-05	4.47E-04	2409	
D00006563	5.63	5.21	23.10	9/7/2017	Oakton	0.42	2.3E-06	6.17E-06	261662	
D00006566	4.76	3.59	22.70	9/7/2017	Oakton	1.17	1.7E-05	2.57E-04	4173	
D00006575	5.46	4.50	22.60	9/7/2017	Oakton	0.96	3.5E-06	3.16E-05	35517	
D00006847	5.35	4.35	22.00	9/7/2017	Oakton	1.00	4.5E-06	4.47E-05	24875	
D00006942	7.00	4.88	21.50	9/7/2017	Oakton	2.12	1.0E-07	1.32E-05	76438	
D00006947	5.76	4.75	21.30	9/7/2017	Oakton	1.01	1.7E-06	1.78E-05	62325	
D00007142	6.95	5.86	21.10	9/7/2017	Oakton	1.09	1.1E-07	1.38E-06	788530	
D00007172	4.80	3.86	20.50	9/7/2017	Oakton	0.94	1.6E-05	1.38E-04	8184	
D00007199	6.41	4.99	19.60	9/7/2017	Oakton	1.42	3.9E-07	1.02E-05	101586	
D00007988	6.37	5.18	19.60	9/7/2017	Oakton	1.19	4.3E-07	6.61E-06	161803	
D00004851	6.32	4.72	17.80	9/7/2017	Oakton	1.60	4.8E-07	1.91E-05	53833	
D00004852	7.31	5.90	17.80	9/7/2017	Oakton	1.41	4.9E-08	1.26E-06	826482	
_pH4STD	4.03		30.4	9/8/2017	PT2.1	4.03	9.3E-05	1.00E+00	1	
_pH7STD	6.99		29.9	9/8/2017	PT2.1	6.99	1.0E-07	1.00E+00	1	
_pH10STD	10.00		30.1	9/8/2017	PT2.1	10.00	1.0E-10	1.00E+00	1	
D00004868	5.24	3.26	27.60	9/8/2017	PT2.1	1.98	5.8E-06	5.50E-04	1839	
D00004870	4.36	3.58	26.70	9/8/2017	PT2.1	0.78	4.4E-05	2.63E-04	4558	
D00006177	4.57	3.43	27.20	9/8/2017	PT2.1	1.14	2.7E-05	3.72E-04	2902	
D00006218	4.55	3.21	24.40	9/8/2017	PT2.1	1.34	2.8E-05	6.17E-04	1699	
D00006245	5.31	3.95	24.30	9/8/2017	PT2.1	1.36	4.9E-06	1.12E-04	9319	
D00006254	4.30	3.26	24.40	9/8/2017	PT2.1	1.04	5.0E-05	5.50E-04	2002	
D00006383	3.92	3.08	24.70	9/8/2017	PT2.1	0.84	1.2E-04	8.32E-04	1405	1 drop of acid
D00006394	7.15	4.02	24.30	9/8/2017	PT2.1	3.13	7.1E-08	9.55E-05	10479	
D00006428	4.57	3.32	24.90	9/8/2017	PT2.1	1.25	2.7E-05	4.79E-04	2214	
D00006579	7.19	5.38	24.50	9/8/2017	PT2.1	1.81	6.5E-08	4.17E-06	243657	
D00006687	4.80	3.92	24.70	9/8/2017	PT2.1	0.88	1.6E-05	1.20E-04	9581	
D00006688	5.08	4.28	25.30	9/8/2017	PT2.1	0.80	8.3E-06	5.25E-05	22643	
D00006690	4.47	3.34	24.40	9/8/2017	PT2.1	1.13	3.4E-05	4.57E-04	2363	
D00006692	4.68	3.43	24.40	9/8/2017	PT2.1	1.25	2.1E-05	3.72E-04	2852	
D00006694	4.58	3.39	24.00	9/8/2017	PT2.1	1.19	2.6E-05	4.07E-04	2624	
D00006736	4.99	3.36	24.10	9/8/2017	PT2.1	1.63	1.0E-05	4.37E-04	2346	
D00006852	6.39	4.72	19.10	9/8/2017	Oakton	1.67	4.1E-07	1.91E-05	53627	
D00006936	5.75	3.34	20.20	9/8/2017	Oakton	2.41	1.8E-06	4.57E-04	2196	
D00006952	5.87	5.25	20.80	9/8/2017	Oakton	0.62	1.3E-06	5.62E-06	233948	
D00006995	4.76	4.33	17.70	9/8/2017	Oakton	0.43	1.7E-05	4.68E-05	34019	
D00007177	4.40	3.49	17.60	9/8/2017	Oakton	0.91	4.0E-05	3.24E-04	3524	
D00007204	12.34	4.02	29.20	9/8/2017	PT2.1	8.32	4.6E-13	9.55E-05	10471	akton meter not working
D00007291	12.46	3.71	28.90	9/8/2017	PT2.1	8.75	3.5E-13	1.95E-04	5129	akton meter not working
D00007386	5.84	4.30	27.70	9/8/2017	PT2.1	1.54	1.4E-06	5.01E-05	20545	
D00007393	6.99	4.09	27.40	9/8/2017	PT2.1	2.90	1.0E-07	8.13E-05	12318	
D00007397	7.79	4.77	30.20	9/8/2017	PT2.1	3.02	1.6E-08	1.70E-05	58941	
D00007404	6.56	4.98	29.80	9/8/2017	PT2.1	1.58	2.8E-07	1.05E-05	98079	
D00007405	7.72	5.30	29.30	9/8/2017	PT2.1	2.42	1.9E-08	5.01E-06	200288	
D00007406	5.92	4.43	29.00	9/8/2017	PT2.1	1.49	1.2E-06	3.72E-05	27815	
D00007407	7.53	5.82	29.30	9/8/2017	PT2.1	1.71	3.0E-08	1.51E-06	673832	
D00007417	4.35	3.41	28.60	9/8/2017	PT2.1	0.94	4.5E-05	3.89E-04	2904	
D00007418	5.03	3.41	26.10	9/8/2017	PT2.1	1.62	9.3E-06	3.89E-04	2634	
D00007419	4.86	4.59	26.10	9/8/2017	PT2.1	0.27	1.4E-05	2.57E-05	84033	
D00007420	5.86	3.34	26.20	9/8/2017	PT2.1	2.52	1.4E-06	4.57E-04	2194	
D00007421	5.60	2.99	26.20	9/8/2017	PT2.1	2.61	2.5E-06	1.02E-03	980	
D00007422	4.66	3.38	26.50	9/8/2017	PT2.1	1.28	2.2E-05	4.17E-04	2532	
D00007423	4.16	2.87	26.10	9/8/2017	PT2.1	1.29	6.9E-05	1.35E-03	781	
D00007424	7.93	6.30	27.00	9/8/2017	PT2.1	1.63	1.2E-08	5.01E-07	2043159	
D00007497	3.80	3.27	27.10	9/8/2017	PT2.1	0.53	1.6E-04	5.37E-04	2642	1 drop of acid
_InstruCAL	-	-	-	9/9/2017	PT2.2	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	4.03	-	20.5	9/9/2017	PT2.2	####	9.3E-05	#VALUE!	#VALUE!	
_pH7STD	7.04	-	20.7	9/9/2017	PT2.2	####	9.1E-08	#VALUE!	#VALUE!	
_pH10STD	10.01	-	20.5	9/9/2017	PT2.2	####	9.8E-11	#VALUE!	#VALUE!	
D00004603	6.41	5.81	20.60	9/9/2017	PT2.2	0.60	3.9E-07	1.55E-06	862239	
D00004604	6.84	5.57	20.70	9/9/2017	PT2.2	1.27	1.4E-07	2.69E-06	392620	
D00004701	5.78	3.67	20.80	9/9/2017	PT2.2	2.11	1.7E-06	2.14E-04	4714	
D00004704	5.99	5.19	21.10	9/9/2017	PT2.2	0.80	1.0E-06	6.46E-06	184052	
D00004963	5.96	4.38	20.70	9/9/2017	PT2.2	1.58	1.1E-06	4.17E-05	24636	
D00004974	6.28	4.21	19.90	9/9/2017	PT2.2	2.07	5.2E-07	6.17E-05	16357	
D00004987	4.86	2.76	20.40	9/9/2017	PT2.2	2.10	1.4E-05	1.74E-03	580	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00004989	4.65	2.89	20.00	9/9/2017	PT2.2	1.76	2.2E-05	1.29E-03	790	
D00004997	5.10	3.06	19.90	9/9/2017	PT2.2	2.04	7.9E-06	8.71E-04	1159	
D00006103	4.78	3.08	19.80	9/9/2017	PT2.2	1.70	1.7E-05	8.32E-04	1227	
D00006154	5.16	3.08	19.80	9/9/2017	PT2.2	2.08	6.9E-06	8.32E-04	1212	
D00006155	5.28	2.68	19.50	9/9/2017	PT2.2	2.60	5.2E-06	2.09E-03	480	
D00006156	4.85	3.08	19.70	9/9/2017	PT2.2	1.77	1.4E-05	8.32E-04	1223	
D00006157	4.84	3.24	19.50	9/9/2017	PT2.2	1.60	1.4E-05	5.75E-04	1783	
D00006158	5.50	2.96	18.90	9/9/2017	PT2.2	2.54	3.2E-06	1.10E-03	915	1 drop
D00006224	5.08	3.14	19.20	9/9/2017	PT2.2	1.94	8.3E-06	7.24E-04	1396	
D00006250	6.02	4.67	19.10	9/9/2017	PT2.2	1.35	9.5E-07	2.14E-05	48960	
D00006259	5.48	3.16	19.20	9/9/2017	PT2.2	2.32	3.3E-06	6.92E-04	1452	
D00006347	6.27	4.83	19.10	9/9/2017	PT2.2	1.44	5.4E-07	1.48E-05	70155	
D00006433	5.69	3.20	18.70	9/9/2017	PT2.2	2.49	2.0E-06	6.31E-04	1590	
D00006453	6.14	4.92	18.50	9/9/2017	PT2.2	1.22	7.2E-07	1.20E-05	88510	
D00006585	6.36	4.83	18.40	9/9/2017	PT2.2	1.53	4.4E-07	1.48E-05	69664	
D00006742	6.31	4.93	18.60	9/9/2017	PT2.2	1.38	4.9E-07	1.17E-05	88816	
D00006792	5.08	3.39	18.80	9/9/2017	PT2.2	1.69	8.3E-06	4.07E-04	2506	
D00006826	6.06	3.35	19.70	9/9/2017	PT2.2	2.71	8.7E-07	4.47E-04	2243	
D00006831	4.67	2.95	20.00	9/9/2017	PT2.2	1.72	2.1E-05	1.12E-03	909	1 drop
D00006839	6.33	5.67	20.70	9/9/2017	PT2.2	0.66	4.7E-07	2.14E-06	598721	
D00006857				9/9/2017	PT2.2					
D00006867	6.60	4.58	20.70	9/9/2017	PT2.2	2.02	2.5E-07	2.63E-05	38386	
D00006868	6.44	4.42	21.30	9/9/2017	PT2.2	2.02	3.6E-07	3.80E-05	26556	
D00006869	6.27	3.94	21.50	9/9/2017	PT2.2	2.33	5.4E-07	1.15E-04	8751	
D00006870	6.06	4.66	20.70	9/9/2017	PT2.2	1.40	8.7E-07	2.19E-05	47604	
D00006871	6.03	3.61	20.40	9/9/2017	PT2.2	2.42	9.3E-07	2.45E-04	4089	
D00006872	5.08	3.38	21.30	9/9/2017	PT2.2	1.70	8.3E-06	4.17E-04	2448	
D00006873	5.38	3.04	20.10	9/9/2017	PT2.2	2.34	4.2E-06	9.12E-04	1102	
D00006874	5.25	3.15	21.60	9/9/2017	PT2.2	2.10	5.6E-06	7.08E-04	1424	
D00006931	5.71	4.85	20.40	9/9/2017	PT2.2	0.86	1.9E-06	1.41E-05	82132	See September 18th
D00006957	6.02	5.25	20.30	9/9/2017	PT2.2	0.77	9.5E-07	5.62E-06	214205	
D00006975	6.43	3.56	19.80	9/9/2017	PT2.2	2.87	3.7E-07	2.75E-04	3636	
D00006978	6.19	4.97	20.90	9/9/2017	PT2.2	1.22	6.5E-07	1.07E-05	99309	
D00006996	6.46	5.77	19.80	9/9/2017	PT2.2	0.69	3.5E-07	1.70E-06	739915	
D00007183	4.31	3.24	20.30	9/9/2017	PT2.2	1.07	4.9E-05	5.75E-04	1899	
D00007209	6.44	5.25	18.60	9/9/2017	PT2.2	1.19	3.6E-07	5.62E-06	190102	
D00007296	4.08	3.00	19.60	9/9/2017	PT2.2	1.08	8.3E-05	1.00E-03	1091	
D00007338	5.33	3.50	18.30	9/9/2017	PT2.2	1.83	4.7E-06	3.16E-04	3210	
D00007492	6.44	5.46	18.60	9/9/2017	PT2.2	0.98	3.6E-07	3.47E-06	322135	
D00004952	6.89	4.96	18.90	9/9/2017	PT2.2	1.93	1.3E-07	1.10E-05	92285	
D00004958	6.33	5.15	18.50	9/9/2017	PT2.2	1.18	4.7E-07	7.08E-06	151247	
D00004979	6.34	3.87	18.20	9/9/2017	PT2.2	2.47	4.6E-07	1.35E-04	7438	
D00004982	6.27	5.47	18.70	9/9/2017	PT2.2	0.80	5.4E-07	3.39E-06	350704	
D00006108	4.16	2.73	19.00	9/9/2017	PT2.2	1.43	6.9E-05	1.86E-03	558	
D00006147	5.98	3.85	19.40	9/9/2017	PT2.2	2.13	1.0E-06	1.41E-04	7132	
D00006229	6.76	5.04	23.30	9/9/2017	PT2.2	1.72	1.7E-07	9.12E-06	111778	
D00006265	4.63	3.39	23.80	9/9/2017	PT2.2	1.24	2.3E-05	4.07E-04	2605	
D00006327	5.51	3.81	23.20	9/9/2017	PT2.2	1.70	3.1E-06	1.55E-04	6588	
D00006331	5.27	4.38	20.70	9/9/2017	PT2.2	0.89	5.4E-06	4.17E-05	27536	
D00006337	5.44	4.42	20.80	9/9/2017	PT2.2	1.02	3.6E-06	3.80E-05	29080	
D00006342	4.94	3.54	20.30	9/9/2017	PT2.2	1.40	1.1E-05	2.88E-04	3611	
D00006438	4.26	3.22	21.10	9/9/2017	PT2.2	1.04	5.5E-05	6.03E-04	1826	
D00006468	5.68	3.80	20.50	9/9/2017	PT2.2	1.88	2.1E-06	1.58E-04	6394	
D00006590	6.30	4.10	20.60	9/9/2017	PT2.2	2.20	5.0E-07	7.94E-05	12669	
D00006655	5.51	4.01	20.60	9/9/2017	PT2.2	1.50	3.1E-06	9.77E-05	10567	
D00006747	4.57	2.66	20.60	9/9/2017	PT2.2	1.91	2.7E-05	2.19E-03	463	
D00006797	5.06	4.45	24.80	9/9/2017	PT2.2	0.61	8.7E-06	3.55E-05	37353	
D00006818	5.65	3.08	19.50	9/9/2017	PT2.2	2.57	2.2E-06	8.32E-04	1206	
D00006926	5.81	4.38	20.80	9/9/2017	PT2.2	1.43	1.5E-06	4.17E-05	24914	
D00006962	5.65	4.34	20.90	9/9/2017	PT2.2	1.31	2.2E-06	4.57E-05	23004	
D00007188	5.20	4.40	20.00	9/9/2017	PT2.2	0.80	6.3E-06	3.98E-05	29850	
D00007214	5.54	4.36	19.50	9/9/2017	PT2.2	1.18	2.9E-06	4.37E-05	24529	
D00007229	5.05	4.32	21.00	9/9/2017	PT2.2	0.73	8.9E-06	4.79E-05	25674	
D00007302	5.05	4.32	21.00	9/9/2017	PT2.2	0.73	8.9E-06	4.79E-05	25674	
D00007344	3.94	2.95	20.30	9/9/2017	PT2.2	0.99	1.1E-04	1.12E-03	993	original sample had no acid (low value)
D00007383	6.23	4.66	19.60	9/9/2017	PT2.2	1.57	5.9E-07	2.19E-05	46973	
D00007487	6.29	5.03	20.00	9/9/2017	PT2.2	1.26	5.1E-07	9.33E-06	113383	
D00007569	6.95	4.30	20.70	9/9/2017	PT2.2	2.65	1.1E-07	5.01E-05	19997	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007570	6.32	5.75	20.80	9/9/2017	PT2.2	0.57	4.8E-07	1.78E-06	769438	
D00007576	6.56	5.80	21.50	9/9/2017	PT2.2	0.76	2.8E-07	1.58E-06	763668	
D00007593	6.59	4.21	18.10	9/9/2017	PT2.2	2.38	2.6E-07	6.17E-05	16286	
D00007603	6.65	5.38	21.30	9/9/2017	PT2.2	1.27	2.2E-07	4.17E-06	253497	
D00007604	6.44	3.93	21.90	9/9/2017	PT2.2	2.51	3.6E-07	1.17E-04	8538	
D00007605	5.72	4.12	22.20	9/9/2017	PT2.2	1.60	1.9E-06	7.59E-05	13522	
D00007606	5.11	3.62	22.20	9/9/2017	PT2.2	1.49	7.8E-06	2.40E-04	4308	
D00007607	6.18	3.92	22.10	9/9/2017	PT2.2	2.26	6.6E-07	1.20E-04	8364	
D00007608	5.39	4.71	21.10	9/9/2017	PT2.2	0.68	4.1E-06	1.95E-05	64831	
D00007609	5.94	5.20	21.00	9/9/2017	PT2.2	0.74	1.1E-06	6.31E-06	193745	
_InstruCAL				9/9/2017	Oakton	0.00	1.0E+00	1.00E+00	#DIV/0!	Tested against a sample already measured using the PT 2.2
D00006113	3.95	3.40	20.70	9/9/2017	Oakton	0.55	1.1E-04	3.98E-04	3498	
D00006142	4.69	3.50	20.60	9/9/2017	Oakton	1.19	2.0E-05	3.16E-04	3381	
D00006234	4.73	3.54	20.50	9/9/2017	Oakton	1.19	1.9E-05	2.88E-04	3707	
D00006270	5.61	4.57	20.40	9/9/2017	Oakton	1.04	2.5E-06	2.69E-05	40882	1 drop acid
D00006444	4.68	2.73	20.20	9/9/2017	Oakton	1.95	2.1E-05	1.86E-03	543	
D00006463	4.91	3.12	20.20	9/9/2017	Oakton	1.79	1.2E-05	7.59E-04	1340	
D00006595	6.42	5.38	20.30	9/9/2017	Oakton	1.04	3.8E-07	4.17E-06	263956	
D00006660	5.15	3.15	20.00	9/9/2017	Oakton	2.00	7.1E-06	7.08E-04	1427	
D00006661	5.03	3.44	19.60	9/9/2017	Oakton	1.59	9.3E-06	3.63E-04	2827	
D00006673	5.77	3.67	19.50	9/9/2017	Oakton	2.10	1.7E-06	2.14E-04	4715	
D00006752	4.92	2.56	19.10	9/9/2017	Oakton	2.36	1.2E-05	2.75E-03	365	1 drop acid
D00006803	5.63	4.20	19.00	9/9/2017	Oakton	1.43	2.3E-06	6.31E-05	16460	
D00006813	6.90	5.67	18.90	9/9/2017	Oakton	1.23	1.3E-07	2.14E-06	497001	
D00007193	5.82	4.69	19.20	9/9/2017	Oakton	1.13	1.5E-06	2.04E-05	52899	
D00007224	4.77	3.38	18.70	9/9/2017	Oakton	1.39	1.7E-05	4.17E-04	2501	
D00007307	4.84	3.33	18.70	9/9/2017	Oakton	1.51	1.4E-05	4.68E-04	2206	
D00007349	4.75	3.24	18.40	9/9/2017	Oakton	1.51	1.8E-05	5.75E-04	1793	
D00007377	6.36	5.58	18.60	9/9/2017	Oakton	0.78	4.4E-07	2.63E-06	455840	
D00007465	5.90	3.98	18.70	9/9/2017	Oakton	1.92	1.3E-06	1.05E-04	9666	
D00007471	7.56	2.86	18.60	9/9/2017	Oakton	4.70	2.8E-08	1.38E-03	724	
D00007476	6.75	5.61	18.40	9/9/2017	Oakton	1.14	1.8E-07	2.45E-06	439197	
D00007478	5.32	4.92	18.40	9/9/2017	Oakton	0.40	4.8E-06	1.20E-05	138191	
D00007564	5.69	5.50	18.70	9/9/2017	Oakton	0.19	2.0E-06	3.16E-06	892427	added 1 drop of acid
D00007582	4.87	3.27	18.60	9/9/2017	Oakton	1.60	1.3E-05	5.37E-04	1910	
D00007588	5.06	3.60	18.50	9/9/2017	Oakton	1.46	8.7E-06	2.51E-04	4124	
D00007638	4.89	3.54	18.30	9/9/2017	Oakton	1.35	1.3E-05	2.88E-04	3629	
D00007645	5.40	3.61	18.20	9/9/2017	Oakton	1.79	4.0E-06	2.45E-04	4141	
D00007646	4.71	3.81	18.20	9/9/2017	Oakton	0.90	1.9E-05	1.55E-04	7386	
D00007647	5.56	4.90	18.10	9/9/2017	Oakton	0.66	2.8E-06	1.26E-05	101677	
D00007648	5.78	3.96	18.00	9/9/2017	Oakton	1.82	1.7E-06	1.10E-04	9260	
D00007649	4.98	3.99	17.80	9/9/2017	Oakton	0.99	1.0E-05	1.02E-04	10886	
D00007650	4.46	3.78	17.70	9/9/2017	Oakton	0.68	3.5E-05	1.66E-04	7617	
D00006118	7.66	5.45	20.80	9/9/2017	PT2.2	2.21	2.2E-08	3.55E-06	283587	
D00006136	6.96	4.22	20.70	9/9/2017	PT2.2	2.74	1.1E-07	6.03E-05	16626	
D00006187	4.50	3.22	20.90	9/9/2017	PT2.2	1.28	3.2E-05	6.03E-04	1752	
D00006188	5.84	3.62	20.00	9/9/2017	PT2.2	2.22	1.4E-06	2.40E-04	4194	
D00006189	6.00	3.96	20.70	9/9/2017	PT2.2	2.04	1.0E-06	1.10E-04	9204	
D00006190	6.14	5.02	20.10	9/9/2017	PT2.2	1.12	7.2E-07	9.55E-06	113308	
D00006191	6.99	3.60	20.10	9/9/2017	PT2.2	3.39	1.0E-07	2.51E-04	3983	
D00006275	6.42	4.54	19.50	9/9/2017	PT2.2	1.88	3.8E-07	2.88E-05	35137	
D00006309	5.88	3.74	20.00	9/9/2017	PT2.2	2.14	1.3E-06	1.82E-04	5536	
D00006312	6.33	6.19	19.50	9/9/2017	PT2.2	0.14	4.7E-07	6.46E-07	5620532	2nd acid drop added to check pH change (5.98 pH)
D00006601	5.54	2.84	19.30	9/9/2017	PT2.2	2.70	2.9E-06	1.45E-03	693	
D00006668	5.61	3.58	18.90	9/9/2017	PT2.2	2.03	2.5E-06	2.63E-04	3838	
D00006808	7.06	4.54	18.60	9/9/2017	PT2.2	2.52	8.7E-08	2.88E-05	34779	
D00007218	5.50	3.17	18.90	9/9/2017	PT2.2	2.33	3.2E-06	6.76E-04	1486	
D00007312	6.16	4.84	18.90	9/9/2017	PT2.2	1.32	6.9E-07	1.45E-05	72661	
D00007354	5.48	2.73	18.50	9/9/2017	PT2.2	2.75	3.3E-06	1.86E-03	538	
D00007372	4.83	3.17	18.30	9/9/2017	PT2.2	1.66	1.5E-05	6.76E-04	1512	
D00007558	5.79	2.97	18.20	9/9/2017	PT2.2	2.82	1.6E-06	1.07E-03	935	
D00007559	5.28	2.74	17.90	9/9/2017	PT2.2	2.54	5.2E-06	1.82E-03	551	
D00007661	5.09	4.02	19.00	9/9/2017	PT2.2	1.07	8.1E-06	9.55E-05	11445	
D00007561	6.72	3.81	18.50	9/9/2017	PT2.2	2.91	1.9E-07	1.55E-04	6464	
_InstruCAL	-	-	-	9/10/2017	PT2.2	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	4.13	-	20.6	9/10/2017	PT2.2	####	7.4E-05	#VALUE!	#VALUE!	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
_pH7STD	6.98	-	20.7	9/10/2017	PT2.2	####	1.0E-07	#VALUE!	#VALUE!	
_pH10STD	10.06	-	20.7	9/10/2017	PT2.2	####	8.7E-11	#VALUE!	#VALUE!	
_InstruCAL	-	-	-	9/10/2017	Oakton	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	4.03	-	20.7	9/10/2017	Oakton	####	9.3E-05	#VALUE!	#VALUE!	
_pH7STD	7.05	-	20.8	9/10/2017	Oakton	####	8.9E-08	#VALUE!	#VALUE!	
_pH10STD	10.12	-	20.7	9/10/2017	Oakton	####	7.6E-11	#VALUE!	#VALUE!	
D00004668	6.23	4.33	19.90	9/10/2017	Oakton	1.90	5.9E-07	4.68E-05	21652	
D00004670	3.90	2.17	20.10	9/10/2017	Oakton	1.73	1.3E-04	6.76E-03	151	
D00006123	5.27	4.90	20.20	9/10/2017	Oakton	0.37	5.4E-06	1.26E-05	138525	
D00006131	6.00	4.59	20.40	9/10/2017	Oakton	1.41	1.0E-06	2.57E-05	40479	
D00006285	4.99	3.04	20.50	9/10/2017	Oakton	1.95	1.0E-05	9.12E-04	1109	
D00006316	6.84	5.71	20.30	9/10/2017	Oakton	1.13	1.4E-07	1.95E-06	553924	
D00006323	4.87	3.21	20.30	9/10/2017	Oakton	1.66	1.3E-05	6.17E-04	1658	
D00006488	5.09	4.24	20.40	9/10/2017	Oakton	0.85	8.1E-06	5.75E-05	20236	
D00006493	5.76	4.31	20.30	9/10/2017	Oakton	1.45	1.7E-06	4.90E-05	21168	
D00006663	4.84	2.90	20.30	9/10/2017	Oakton	1.94	1.4E-05	1.26E-03	804	
D00006765	5.47	5.37	20.30	9/10/2017	Oakton	0.10	3.4E-06	4.27E-06	1139791	
D00006904	5.76	3.99	20.60	9/10/2017	Oakton	1.77	1.7E-06	1.02E-04	9941	
D00006906	4.98	4.55	20.60	9/10/2017	Oakton	0.43	1.0E-05	2.82E-05	56457	
D00006915	4.68	4.07	20.60	9/10/2017	Oakton	0.61	2.1E-05	8.51E-05	15571	
D00006923	6.02	5.32	20.50	9/10/2017	Oakton	0.70	9.5E-07	4.79E-06	261007	
D00007318	5.87	3.69	20.70	9/10/2017	Oakton	2.18	1.3E-06	2.04E-04	4930	
D00007359	4.36	2.96	20.60	9/10/2017	Oakton	1.40	4.4E-05	1.10E-03	950	
D00007368	5.12	3.85	20.40	9/10/2017	Oakton	1.27	7.6E-06	1.41E-04	7481	
D00007435	5.16	3.34	20.50	9/10/2017	Oakton	1.82	6.9E-06	4.57E-04	2221	
D00007445	6.01	3.77	20.30	9/10/2017	Oakton	2.24	9.8E-07	1.70E-04	5923	
D00007539	4.95	3.57	20.40	9/10/2017	Oakton	1.38	1.1E-05	2.69E-04	3877	
D00007540	4.94	3.28	20.40	9/10/2017	Oakton	1.66	1.1E-05	5.25E-04	1948	
D00007541	4.39	3.10	20.40	9/10/2017	Oakton	1.29	4.1E-05	7.94E-04	1327	
D00007542	3.24	2.96	20.40	9/10/2017	Oakton	0.28	5.8E-04	1.10E-03	1919	
D00007543	4.91	3.20	20.80	9/10/2017	Oakton	1.71	1.2E-05	6.31E-04	1616	
D00007544	4.92	3.25	20.30	9/10/2017	Oakton	1.67	1.2E-05	5.62E-04	1817	
D00007545	4.34	3.05	20.50	9/10/2017	Oakton	1.29	4.6E-05	8.91E-04	1183	
D00007546	4.96	3.63	20.70	9/10/2017	Oakton	1.33	1.1E-05	2.34E-04	4475	
D00007547	4.80	3.94	20.50	9/10/2017	Oakton	0.86	1.6E-05	1.15E-04	10104	
D00004611	7.84	3.61	19.20	9/10/2017	PT2.2	4.23	1.4E-08	2.45E-04	4074	
D00004616	5.43	3.63	18.50	9/10/2017	PT2.2	1.80	3.7E-06	2.34E-04	4334	
D00004652	5.65	4.45	18.40	9/10/2017	PT2.2	1.20	2.2E-06	3.55E-05	30082	
D00004656	5.14	3.87	18.60	9/10/2017	PT2.2	1.27	7.2E-06	1.35E-04	7834	
D00004662	6.02	4.26	18.70	9/10/2017	PT2.2	1.76	9.5E-07	5.50E-05	18519	
D00006290	5.95	4.71	18.20	9/10/2017	PT2.2	1.24	1.1E-06	1.95E-05	54418	
D00006770	5.68	3.91	18.40	9/10/2017	PT2.2	1.77	2.1E-06	1.23E-04	8269	
D00006771	4.99	2.82	18.70	9/10/2017	PT2.2	2.17	1.0E-05	1.51E-03	665	
D00006772	4.98	3.03	18.70	9/10/2017	PT2.2	1.95	1.0E-05	9.33E-04	1084	
D00006773	5.16	3.37	18.60	9/10/2017	PT2.2	1.79	6.9E-06	4.27E-04	2383	
D00006774	5.41	3.69	19.20	9/10/2017	PT2.2	1.72	3.9E-06	2.04E-04	4993	
D00006775	6.06	3.51	18.20	9/10/2017	PT2.2	2.55	8.7E-07	3.09E-04	3245	
D00006776	5.22	2.52	18.60	9/10/2017	PT2.2	2.70	6.0E-06	3.02E-03	332	
D00006777	6.17	4.37	18.70	9/10/2017	PT2.2	1.80	6.8E-07	4.27E-05	23820	
D00007324				9/10/2017	PT2.2					
D00007454	4.61	3.06	18.10	9/10/2017	PT2.2	1.55	2.5E-05	8.71E-04	1181	
D00007455	5.38	3.20	18.60	9/10/2017	PT2.2	2.18	4.2E-06	6.31E-04	1595	
D00007758	4.78	4.08	20.00	9/10/2017	PT2.2	0.70	1.7E-05	8.32E-05	15019	
D00007773	5.54	3.36	19.50	9/10/2017	PT2.2	2.18	2.9E-06	4.37E-04	2306	
D00007774	4.89	3.20	20.00	9/10/2017	PT2.2	1.69	1.3E-05	6.31E-04	1618	
D00007775	4.89	3.18	19.80	9/10/2017	PT2.2	1.71	1.3E-05	6.61E-04	1544	
D00007776	5.54	4.68	19.40	9/10/2017	PT2.2	0.86	2.9E-06	2.09E-05	55528	
D00004624	6.73	4.30	20.30	9/10/2017	Oakton	2.43	1.9E-07	5.01E-05	20027	
D00004761	5.56	5.03	20.10	9/10/2017	Oakton	0.53	2.8E-06	9.33E-06	152015	
D00004807	5.10	3.21	19.80	9/10/2017	Oakton	1.89	7.9E-06	6.17E-04	1643	
D00004811	5.56	4.60	20.20	9/10/2017	Oakton	0.96	2.8E-06	2.51E-05	44713	
D00004815	6.79	5.93	20.40	9/10/2017	Oakton	0.86	1.6E-07	1.17E-06	987443	
D00004817	5.61	4.41	20.30	9/10/2017	Oakton	1.20	2.5E-06	3.89E-05	27435	2nd drop of acid 4.62
D00004825	5.26	3.59	20.40	9/10/2017	Oakton	1.67	5.5E-06	2.57E-04	3975	
D00007101	4.66	4.49	20.60	9/10/2017	Oakton	0.17	2.2E-05	3.24E-05	95404	
D00007102	4.82	4.56	20.20	9/10/2017	Oakton	0.26	1.5E-05	2.75E-05	80602	
D00007103	4.80	3.26	20.10	9/10/2017	Oakton	1.54	1.6E-05	5.50E-04	1874	
D00007104	5.01	2.99	19.70	9/10/2017	Oakton	2.02	9.8E-06	1.02E-03	987	
D00007105	5.19	2.87	19.90	9/10/2017	Oakton	2.32	6.5E-06	1.35E-03	745	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007106	4.95	3.05	20.20	9/10/2017	Oakton	1.90	1.1E-05	8.91E-04	1136	
D00007107	4.44	2.68	20.90	9/10/2017	Oakton	1.76	3.6E-05	2.09E-03	487	
D00007108	4.74	2.99	20.70	9/10/2017	Oakton	1.75	1.8E-05	1.02E-03	995	
D00007109	5.28	2.85	20.90	9/10/2017	Oakton	2.43	5.2E-06	1.41E-03	711	
D00007110	4.93	2.29	19.20	9/10/2017	Oakton	2.64	1.2E-05	5.13E-03	195	
D00007111	6.30	3.56	19.10	9/10/2017	Oakton	2.74	5.0E-07	2.75E-04	3637	
D00007112	5.46	2.73	19.10	9/10/2017	Oakton	2.73	3.5E-06	1.86E-03	538	
D00007113	4.92	2.51	19.10	9/10/2017	Oakton	2.41	1.2E-05	3.09E-03	325	
D00007114	5.13	2.44	18.80	9/10/2017	Oakton	2.69	7.4E-06	3.63E-03	276	
D00007115	4.97	2.69	18.80	9/10/2017	Oakton	2.28	1.1E-05	2.04E-03	492	
D00007116	5.51	2.50	18.50	9/10/2017	Oakton	3.01	3.1E-06	3.16E-03	317	
D00007117	5.21	2.64	18.20	9/10/2017	Oakton	2.57	6.2E-06	2.29E-03	438	
D00007118	4.74	3.77	20.40	9/10/2017	Oakton	0.97	1.8E-05	1.70E-04	6595	
D00007119	4.52	3.55	20.30	9/10/2017	Oakton	0.97	3.0E-05	2.82E-04	3974	
D00007121	4.30	3.11	20.40	9/10/2017	Oakton	1.19	5.0E-05	7.76E-04	1377	
D00007122	5.16	2.50	17.80	9/10/2017	Oakton	2.66	6.9E-06	3.16E-03	317	
D00007123	5.31	3.19	17.40	9/10/2017	Oakton	2.12	4.9E-06	6.46E-04	1561	
D00007124	5.33	2.52	18.00	9/10/2017	Oakton	2.81	4.7E-06	3.02E-03	332	
D00007125	5.21	4.02	18.40	9/10/2017	Oakton	1.19	6.2E-06	9.55E-05	11194	
D00007126	5.10	3.05	18.30	9/10/2017	Oakton	2.05	7.9E-06	8.91E-04	1132	
D00007127	4.90	2.97	18.60	9/10/2017	Oakton	1.93	1.3E-05	1.07E-03	944	
D00007128	5.06	3.53	18.70	9/10/2017	Oakton	1.53	8.7E-06	2.95E-04	3491	only 1 drop acid
D00007129	4.62	3.78	19.00	9/10/2017	Oakton	0.84	2.4E-05	1.66E-04	7044	
D00007131	5.67	4.12	19.40	9/10/2017	Oakton	1.55	2.1E-06	7.59E-05	13565	
D00007914				9/10/2017	Oakton					
D00007928	6.24	4.82	19.60	9/10/2017	Oakton	1.42	5.8E-07	1.51E-05	68681	
D00007976	5.17	4.04	19.40	9/10/2017	Oakton	1.13	6.8E-06	9.12E-05	11843	
D00007781	5.81	3.07	21.70	9/10/2017	PT2.2	2.74	1.5E-06	8.51E-04	1177	
D00007782	4.63	3.05	21.70	9/10/2017	PT2.2	1.58	2.3E-05	8.91E-04	1152	not found
D00007783	5.38	2.61	29.40	9/10/2017	PT2.2	2.77	4.2E-06	2.45E-03	408	
D00007784	5.44	3.21	20.60	9/10/2017	PT2.2	2.23	3.6E-06	6.17E-04	1631	
D00007785	5.45	2.91	18.60	9/10/2017	PT2.2	2.54	3.5E-06	1.23E-03	815	
D00007786	5.28	2.99	18.80	9/10/2017	PT2.2	2.29	5.2E-06	1.02E-03	982	
D00007787	5.53	3.13	18.70	9/10/2017	PT2.2	2.40	3.0E-06	7.41E-04	1354	
D00007788	5.75	3.61	19.30	9/10/2017	PT2.2	2.14	1.8E-06	2.45E-04	4104	
D00007789	5.74	3.18	19.50	9/10/2017	PT2.2	2.56	1.8E-06	6.61E-04	1518	
D00007790	5.27	3.04	18.90	9/10/2017	PT2.2	2.23	5.4E-06	9.12E-04	1103	
D00007791	5.76	3.60	19.00	9/10/2017	PT2.2	2.16	1.7E-06	2.51E-04	4009	
D00007792	5.19	2.96	19.40	9/10/2017	PT2.2	2.23	6.5E-06	1.10E-03	917	
D00007793	6.00	3.19	19.40	9/10/2017	PT2.2	2.81	1.0E-06	6.46E-04	1551	
D00007794	6.12	3.44	19.30	9/10/2017	PT2.2	2.68	7.6E-07	3.63E-04	2760	
D00007795	5.15	3.93	19.80	9/10/2017	PT2.2	1.22	7.1E-06	1.17E-04	9057	
D00004629	6.24	4.86	19.30	9/10/2017	PT2.2	1.38	5.8E-07	1.38E-05	75595	
D00004642	5.50	3.94	19.10	9/10/2017	PT2.2	1.56	3.2E-06	1.15E-04	8956	
D00004648	6.05	3.45	18.80	9/10/2017	PT2.2	2.60	8.9E-07	3.55E-04	2825	
D00004766	5.88	3.69	18.90	9/10/2017	PT2.2	2.19	1.3E-06	2.04E-04	4930	
D00004791	6.44	5.07	17.90	9/10/2017	PT2.2	1.37	3.6E-07	8.51E-06	122725	
D00004796	5.55	3.78	18.30	9/10/2017	PT2.2	1.77	2.8E-06	1.66E-04	6130	
D00004830	6.38	4.44	18.50	9/10/2017	PT2.2	1.94	4.2E-07	3.63E-05	27862	
D00004834	5.50	3.58	18.90	9/10/2017	PT2.2	1.92	3.2E-06	2.63E-04	3848	
D00006207	5.28	3.20	19.10	9/10/2017	PT2.2	2.08	5.2E-06	6.31E-04	1598	
D00006371	5.00	2.97	19.30	9/10/2017	PT2.2	2.03	1.0E-05	1.07E-03	942	
D00006529	5.61	2.61	18.60	9/10/2017	PT2.2	3.00	2.5E-06	2.45E-03	408	
D00006530	4.66	2.91	19.20	9/10/2017	PT2.2	1.75	2.2E-05	1.23E-03	828	
D00006533	6.19	3.09	19.50	9/10/2017	PT2.2	3.10	6.5E-07	8.13E-04	1231	
D00006536				9/10/2017	PT2.2					
D00006602	5.63	2.01	19.90	9/10/2017	PT2.2	3.62	2.3E-06	9.77E-03	102	
D00006603	5.55	3.36	19.70	9/10/2017	PT2.2	2.19	2.8E-06	4.37E-04	2306	
D00006604	5.05	2.84	20.20	9/10/2017	PT2.2	2.21	8.9E-06	1.45E-03	696	
D00006605	4.86	2.77	19.20	9/10/2017	PT2.2	2.09	1.4E-05	1.70E-03	594	Sample missing from box
_InstruCAL	-	-	-	9/11/2017	PT2.2	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	4.03	-	23.4	9/11/2017	PT2.2	####	9.3E-05	#VALUE!	#VALUE!	
_pH7STD	6.98	-	23.2	9/11/2017	PT2.2	####	1.0E-07	#VALUE!	#VALUE!	
_pH10STD	9.99	-	23.4	9/11/2017	PT2.2	####	1.0E-10	#VALUE!	#VALUE!	
_InstruCAL	-	-	-	9/11/2017	Oakton	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	4.05	-	22.9	9/11/2017	Oakton	####	8.9E-05	#VALUE!	#VALUE!	
_pH7STD	6.88	-	23.0	9/11/2017	Oakton	####	1.3E-07	#VALUE!	#VALUE!	
_pH10STD	10.12	-	22.8	9/11/2017	Oakton	####	7.6E-11	#VALUE!	#VALUE!	
D00006606	5.78	4.10	23.30	9/11/2017	PT2.2	1.68	1.7E-06	7.94E-05	12858	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006607	5.17	4.23	23.70	9/11/2017	PT2.2	0.94	6.8E-06	5.89E-05	19185	
D00006608	5.33	4.23	22.20	9/11/2017	PT2.2	1.10	4.7E-06	5.89E-05	18448	
D00006609	5.12	4.07	22.50	9/11/2017	PT2.2	1.05	7.6E-06	8.51E-05	12899	
D00006610	4.47	3.32	22.80	9/11/2017	PT2.2	1.15	3.4E-05	4.79E-04	2248	
D00006611	5.16	2.43	23.10	9/11/2017	PT2.2	2.73	6.9E-06	3.72E-03	270	
D00006612	5.18	3.39	24.10	9/11/2017	PT2.2	1.79	6.6E-06	4.07E-04	2495	
D00006613	5.16	2.61	23.70	9/11/2017	PT2.2	2.55	6.9E-06	2.45E-03	409	
D00006614	6.35	2.24	23.50	9/11/2017	PT2.2	4.11	4.5E-07	5.75E-03	174	
D00006615	5.00	2.62	23.50	9/11/2017	PT2.2	2.38	1.0E-05	2.40E-03	419	
D00006616	6.09	27.80	22.30	9/11/2017	PT2.2	####	8.1E-07	1.58E-28	-1230269	
D00006617	5.24	3.82	21.90	9/11/2017	PT2.2	1.42	5.8E-06	1.51E-04	6868	
D00006618	5.32	3.32	21.60	9/11/2017	PT2.2	2.00	4.8E-06	4.79E-04	2110	
D00006619	5.30	3.34	21.70	9/11/2017	PT2.2	1.96	5.0E-06	4.57E-04	2212	
D00006701	5.74	4.27	22.00	9/11/2017	PT2.2	1.47	1.8E-06	5.37E-05	19274	
D00007136	5.55	4.30	22.40	9/11/2017	PT2.2	1.25	2.8E-06	5.01E-05	21141	
D00007166	6.57	3.21	22.20	9/11/2017	PT2.2	3.36	2.7E-07	6.17E-04	1623	
D00007923	5.98	4.76	20.40	9/11/2017	PT2.2	1.22	1.0E-06	1.74E-05	61234	
D00007934	5.19	2.68	20.40	9/11/2017	PT2.2	2.51	6.5E-06	2.09E-03	480	
D00007982	6.40	6.05	21.70	9/11/2017	PT2.2	0.35	4.0E-07	8.91E-07	2027806	
D00004634	5.09	3.39	21.70	9/11/2017	Oakton	1.70	8.1E-06	4.07E-04	2505	
D00004636	7.02	4.33	21.70	9/11/2017	Oakton	2.69	9.5E-08	4.68E-05	21423	
D00004684	6.50	4.63	22.10	9/11/2017	Oakton	1.87	3.2E-07	2.34E-05	43241	
D00004687	5.58	3.11	22.10	9/11/2017	Oakton	2.47	2.6E-06	7.76E-04	1293	
D00004771	5.37	2.75	22.10	9/11/2017	Oakton	2.62	4.3E-06	1.78E-03	564	only1 drop of acid
D00006212	8.37	6.06	21.90	9/11/2017	Oakton	2.31	4.3E-09	8.71E-07	1153805	
D00006238	6.50	5.10	22.20	9/11/2017	Oakton	1.40	3.2E-07	7.94E-06	131112	
D00006376	5.53	4.50	22.10	9/11/2017	Oakton	1.03	3.0E-06	3.16E-05	34878	
D00006388	6.55	5.26	21.60	9/11/2017	Oakton	1.29	2.8E-07	5.50E-06	191807	
D00006544	7.61	5.39	21.20	9/11/2017	Oakton	2.22	2.5E-08	4.07E-06	246959	
D00006547	7.53	6.01	21.20	9/11/2017	Oakton	1.52	3.0E-08	9.77E-07	1055158	
D00006558	6.00	5.85	21.60	9/11/2017	Oakton	0.15	1.0E-06	1.41E-06	2424022	
D00006564	5.14	5.28	21.60	9/11/2017	Oakton	-0.14	7.2E-06	5.25E-06	-500930	
D00006565	5.05	3.59	20.90	9/11/2017	Oakton	1.46	8.9E-06	2.57E-04	4030	
D00006574	5.17	2.86	19.80	9/11/2017	Oakton	2.31	6.8E-06	1.38E-03	728	
D00006846	4.62	3.64	20.90	9/11/2017	Oakton	0.98	2.4E-05	2.29E-04	4876	
D00006943	4.43	3.20	20.70	9/11/2017	Oakton	1.23	3.7E-05	6.31E-04	1684	
D00006946	4.73	2.86	20.80	9/11/2017	Oakton	1.87	1.9E-05	1.38E-03	734	
D00007141	4.98	3.45	20.00	9/11/2017	Oakton	1.53	1.0E-05	3.55E-04	2904	
D00007171	5.26	3.10	20.80	9/11/2017	Oakton	2.16	5.5E-06	7.94E-04	1268	
D00007198	6.36	4.57	20.70	9/11/2017	Oakton	1.79	4.4E-07	2.69E-05	37766	
D00007252	4.53	4.50	19.70	9/11/2017	Oakton	0.03	3.0E-05	3.16E-05	473780	1st drop 4.50, 2nd drop of acid pH 4.14
D00007253	5.01	2.95	19.30	9/11/2017	Oakton	2.06	9.8E-06	1.12E-03	899	
D00007254	5.03	2.95	17.90	9/11/2017	Oakton	2.08	9.3E-06	1.12E-03	899	
D00007255	5.74	3.02	17.80	9/11/2017	Oakton	2.72	1.8E-06	9.55E-04	1049	
D00007256	5.25	2.54	18.20	9/11/2017	Oakton	2.71	5.6E-06	2.88E-03	347	
D00007257	4.86	2.42	18.50	9/11/2017	Oakton	2.44	1.4E-05	3.80E-03	264	
D00007258	4.30	3.70	18.10	9/11/2017	Oakton	0.60	5.0E-05	2.00E-04	6693	
D00007259	4.80	3.16	18.30	9/11/2017	Oakton	1.64	1.6E-05	6.92E-04	1479	
D00007261	5.01	3.14	18.80	9/11/2017	Oakton	1.87	9.8E-06	7.24E-04	1399	
D00007262	5.73	4.55	18.80	9/11/2017	Oakton	1.18	1.9E-06	2.82E-05	37991	
D00007263	5.37	3.81	19.10	9/11/2017	Oakton	1.56	4.3E-06	1.55E-04	6639	
D00007264	5.93	3.90	18.90	9/11/2017	Oakton	2.03	1.2E-06	1.26E-04	8018	
D00007265	4.94	3.18	18.50	9/11/2017	Oakton	1.76	1.1E-05	6.61E-04	1540	
D00007266	5.31	3.40	18.30	9/11/2017	Oakton	1.91	4.9E-06	3.98E-04	2543	
D00007267	5.23	2.83	18.20	9/11/2017	Oakton	2.40	5.9E-06	1.48E-03	679	
D00007268	5.23	2.83	18.20	9/11/2017	Oakton	2.40	5.9E-06	1.48E-03	679	
D00007269	5.71	4.57	17.90	9/11/2017	Oakton	1.14	1.9E-06	2.69E-05	40055	
D00007270	5.46	2.45	18.20	9/11/2017	Oakton	3.01	3.5E-06	3.55E-03	282	
D00007271	4.63	2.77	18.20	9/11/2017	Oakton	1.86	2.3E-05	1.70E-03	597	
D00007272	4.45	3.02	18.20	9/11/2017	Oakton	1.43	3.5E-05	9.55E-04	1088	
D00007987	5.41	4.42	18.40	9/11/2017	Oakton	0.99	3.9E-06	3.80E-05	29301	
D00004777	6.92	4.20	22.60	9/11/2017	PT 2.2	2.72	1.2E-07	6.31E-05	15879	
D00004778		4.82	21.70	9/11/2017	PT 2.2					No sample taken in regular pH
D00004869	6.38	3.69	22.00	9/11/2017	PT 2.2	2.69	4.2E-07	2.04E-04	4908	2 drops of acid
D00006178	5.42	3.17	22.00	9/11/2017	PT 2.2	2.25	3.8E-06	6.76E-04	1487	
D00006179	5.16	3.03	21.40	9/11/2017	PT 2.2	2.13	6.9E-06	9.33E-04	1080	
D00006181	5.15	3.18	20.40	9/11/2017	PT 2.2	1.97	7.1E-06	6.61E-04	1530	2 drops of acid

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006182	5.50	3.07	20.60	9/11/2017	PT 2.2	2.43	3.2E-06	8.51E-04	1179	2 drops of acid
D00006183	5.26	2.71	18.10	9/11/2017	PT 2.2	2.55	5.5E-06	1.95E-03	514	
D00006184	5.12	2.75	18.40	9/11/2017	PT 2.2	2.37	7.6E-06	1.78E-03	565	
D00006185	9.66	2.78	19.00	9/11/2017	PT 2.2	6.88	2.2E-10	1.66E-03	603	
D00006186	6.13	5.23	19.10	9/11/2017	PT 2.2	0.90	7.4E-07	5.89E-06	194283	
D00006217	4.57	2.79	18.30	9/11/2017	PT 2.2	1.78	2.7E-05	1.62E-03	627	
D00006244	6.27	4.85	18.30	9/11/2017	PT 2.2	1.42	5.4E-07	1.41E-05	73592	
D00006253	4.71	2.95	18.40	9/11/2017	PT 2.2	1.76	1.9E-05	1.12E-03	907	
D00006382	4.33	2.45	18.60	9/11/2017	PT 2.2	1.88	4.7E-05	3.55E-03	286	
D00006393	5.83	5.22	19.90	9/11/2017	PT 2.2	0.61	1.5E-06	6.03E-06	219950	
D00006427	4.72	3.10	19.70	9/11/2017	PT 2.2	1.62	1.9E-05	7.94E-04	1290	
D00006578	6.67	3.91	17.70	9/11/2017	PT 2.2	2.76	2.1E-07	1.23E-04	8142	
D00006683	6.04	4.82	18.60	9/11/2017	PT 2.2	1.22	9.1E-07	1.51E-05	70306	
D00006684	4.92	3.42	19.30	9/11/2017	PT 2.2	1.50	1.2E-05	3.80E-04	2716	
_InstruCAL	-	-	-	9/12/2017	PT2.2	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	3.97	-	21.8	9/12/2017	PT2.2	####	1.1E-04	#VALUE!	#VALUE!	
_pH7STD	6.96	-	21.7	9/12/2017	PT2.2	####	1.1E-07	#VALUE!	#VALUE!	
_pH10STD	9.98	-	21.7	9/12/2017	PT2.2	####	1.0E-10	#VALUE!	#VALUE!	
D00006685	5.27	2.68	20.10	9/12/2017	PT2.2	2.59	5.4E-06	2.09E-03	480	
D00006686	4.91	2.82	19.20	9/12/2017	PT2.2	2.09	1.2E-05	1.51E-03	666	
D00006689	5.21	2.61	19.20	9/12/2017	PT2.2	2.60	6.2E-06	2.45E-03	408	
D00006691	5.17	2.55	18.90	9/12/2017	PT2.2	2.62	6.8E-06	2.82E-03	356	
D00006693	4.93	3.24	19.00	9/12/2017	PT2.2	1.69	1.2E-05	5.75E-04	1774	
D00006695	5.01	2.56	18.50	9/12/2017	PT2.2	2.45	9.8E-06	2.75E-03	364	
_InstruCAL	-	-	-	9/13/2017	PT2.2	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	3.94	-	17.1	9/13/2017	PT2.2	####	1.1E-04	#VALUE!	#VALUE!	
_pH7STD	6.97	-	18.0	9/13/2017	PT2.2	####	1.1E-07	#VALUE!	#VALUE!	
_pH10STD	10.01	-	17.1	9/13/2017	PT2.2	####	9.8E-11	#VALUE!	#VALUE!	
_InstruCAL	-	-		9/13/2017	Oakton	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	3.98	-	16.4	9/13/2017	Oakton	####	1.0E-04	#VALUE!	#VALUE!	
_pH7STD	7.05	-	16.4	9/13/2017	Oakton	####	8.9E-08	#VALUE!	#VALUE!	
_pH10STD	10.08	-	16.5	9/13/2017	Oakton	####	8.3E-11	#VALUE!	#VALUE!	
D00006851	7.05	4.74	17.60	9/13/2017	PT2.2	2.31	8.9E-08	1.82E-05	55225	
D00006937	6.33	5.15	18.10	9/13/2017	PT2.2	1.18	4.7E-07	7.08E-06	151247	
D00006951	6.00	2.98	17.40	9/13/2017	PT2.2	3.02	1.0E-06	1.05E-03	956	
D00007176	4.23	2.53	17.90	9/13/2017	PT2.2	1.70	5.9E-05	2.95E-03	346	
D00007203	5.04	2.52	18.20	9/13/2017	PT2.2	2.52	9.1E-06	3.02E-03	332	
D00007290	4.70	2.93	17.30	9/13/2017	PT2.2	1.77	2.0E-05	1.17E-03	866	
D00007387	4.49	2.94	18.20	9/13/2017	PT2.2	1.55	3.2E-05	1.15E-03	896	
D00007392	6.07	4.85	18.60	9/13/2017	PT2.2	1.22	8.5E-07	1.41E-05	75334	
D00007398	6.02	2.60	18.50	9/13/2017	PT2.2	3.42	9.5E-07	2.51E-03	398	
D00007403	5.19	2.89	18.20	9/13/2017	PT2.2	2.30	6.5E-06	1.29E-03	780	
D00007498	4.44	2.36	17.00	9/13/2017	PT2.2	2.08	3.6E-05	4.37E-03	231	
D00007499	5.42	2.74	17.40	9/13/2017	PT2.2	2.68	3.8E-06	1.82E-03	551	
D00007500	5.71	2.68	17.50	9/13/2017	PT2.2	3.03	1.9E-06	2.09E-03	479	
D00007990	5.92	4.94	18.00	9/13/2017	PT2.2	0.98	1.2E-06	1.15E-05	97283	
D00004605	6.57	5.59	19.70	9/13/2017	Oakton	0.98	2.7E-07	2.57E-06	434548	
D00004606	7.61	5.01	18.70	9/13/2017	Oakton	2.60	2.5E-08	9.77E-06	102587	
D00004607	7.40	4.47	16.80	9/13/2017	Oakton	2.93	4.0E-08	3.39E-05	29547	
D00004608	4.04	3.07	18.30	9/13/2017	Oakton	0.97	9.1E-05	8.51E-04	1316	
D00004702	6.76	5.59	17.20	9/13/2017	Oakton	1.17	1.7E-07	2.57E-06	417255	
D00004703	4.34	2.86	17.90	9/13/2017	Oakton	1.48	4.6E-05	1.38E-03	749	
D00004859	5.09	2.91	17.70	9/13/2017	Oakton	2.18	8.1E-06	1.23E-03	818	
D00004860	4.71	2.86	17.60	9/13/2017	Oakton	1.85	1.9E-05	1.38E-03	735	
D00004861	4.85	2.60	17.80	9/13/2017	Oakton	2.25	1.4E-05	2.51E-03	400	
D00004862	5.28	3.36	18.00	9/13/2017	Oakton	1.92	5.2E-06	4.37E-04	2319	
D00004964	5.41	3.86	18.20	9/13/2017	Oakton	1.55	3.9E-06	1.38E-04	7454	
D00004973	4.55	2.99	18.40	9/13/2017	Oakton	1.56	2.8E-05	1.02E-03	1005	
D00004988	4.04	3.07	18.60	9/13/2017	Oakton	0.97	9.1E-05	8.51E-04	1316	
D00004998	4.14	3.24	18.70	9/13/2017	Oakton	0.90	7.2E-05	5.75E-04	1988	
D00004999	3.96	2.99	18.10	9/13/2017	Oakton	0.97	1.1E-04	1.02E-03	1095	
D00005000	4.29	2.58	17.80	9/13/2017	Oakton	1.71	5.1E-05	2.63E-03	388	
D00006102	4.09	3.13	17.90	9/13/2017	Oakton	0.96	8.1E-05	7.41E-04	1515	
D00006150	4.93	2.91	17.80	9/13/2017	Oakton	2.02	1.2E-05	1.23E-03	821	
D00006151	4.40	2.97	19.80	9/13/2017	Oakton	1.43	4.0E-05	1.07E-03	969	
D00006152	5.40	4.20	19.90	9/13/2017	Oakton	1.20	4.0E-06	6.31E-05	16916	
D00006153	4.30	2.86	19.20	9/13/2017	Oakton	1.44	5.0E-05	1.38E-03	752	
D00006159	5.11	3.72	17.80	9/13/2017	Oakton	1.39	7.8E-06	1.91E-04	5471	
D00006223	4.10	2.61	17.30	9/13/2017	Oakton	1.49	7.9E-05	2.45E-03	421	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006249	7.22	2.76	17.00	9/13/2017	Oakton	4.46	6.0E-08	1.74E-03	575	
D00006258	5.53	2.28	16.70	9/13/2017	Oakton	3.25	3.0E-06	5.25E-03	191	
D00006432	5.06	3.35	16.80	9/13/2017	Oakton	1.71	8.7E-06	4.47E-04	2283	
D00006452	6.23	5.24	16.80	9/13/2017	Oakton	0.99	5.9E-07	5.75E-06	193590	
D00006584	6.85	5.04	16.30	9/13/2017	Oakton	1.81	1.4E-07	9.12E-06	111373	
D00006741	3.90	3.12	16.30	9/13/2017	Oakton	0.78	1.3E-04	7.59E-04	1581	
D00006791	4.08	3.34	15.70	9/13/2017	Oakton	0.74	8.3E-05	4.57E-04	2674	
D00006825	4.45	3.13	15.50	9/13/2017	Oakton	1.32	3.5E-05	7.41E-04	1417	
D00006828	6.11	5.01	15.50	9/13/2017	Oakton	1.10	7.8E-07	9.77E-06	111159	
D00006841	7.30	4.97	15.50	9/13/2017	Oakton	2.33	5.0E-08	1.07E-05	93764	
D00006856	6.25	5.11	15.60	9/13/2017	Oakton	1.14	5.6E-07	7.76E-06	138886	
D00006863	5.08	4.05	20.80	9/13/2017	Oakton	1.03	8.3E-06	8.91E-05	12375	
D00006864	6.75	3.42	19.80	9/13/2017	Oakton	3.33	1.8E-07	3.80E-04	2631	
D00006865	4.42	3.59	19.70	9/13/2017	Oakton	0.83	3.8E-05	2.57E-04	4566	
D00006866	7.48	4.22	18.70	9/13/2017	Oakton	3.26	3.3E-08	6.03E-05	16605	
D00006932	5.75	4.38	18.30	9/13/2017	Oakton	1.37	1.8E-06	4.17E-05	25057	
D00006956	5.91	4.54	18.40	9/13/2017	Oakton	1.37	1.2E-06	2.88E-05	36219	
D00006970	6.15	4.40	18.80	9/13/2017	Oakton	1.75	7.1E-07	3.98E-05	25574	
D00006974		3.10	17.70	9/13/2017	Oakton					Original pH not recorded
D00006979	4.24	2.93	17.90	9/13/2017	Oakton	1.31	5.8E-05	1.17E-03	895	
D00006980	4.51	2.96	18.10	9/13/2017	Oakton	1.55	3.1E-05	1.10E-03	938	
D00007182	3.80	2.58	17.70	9/13/2017	Oakton	1.22	1.6E-04	2.63E-03	405	
D00007208	5.60	4.30	17.20	9/13/2017	Oakton	1.30	2.5E-06	5.01E-05	21005	
D00007295	7.20	3.40	16.90	9/13/2017	Oakton	3.80	6.3E-08	3.98E-04	2512	
D00007337	4.49	3.19	16.70	9/13/2017	Oakton	1.30	3.2E-05	6.46E-04	1631	
D00007493	4.32	3.39	16.90	9/13/2017	Oakton	0.93	4.8E-05	4.07E-04	2782	
_GravelPitSTD	8.12	4.86	17.2	9/13/2017	Oakton	3.26	7.6E-09	1.38E-05	72483	
B00292570				9/13/2017	PT2.2					
B00292571				9/13/2017	PT2.2					
D00004951	5.51	3.93	17.00	9/13/2017	PT2.2	1.58	3.1E-06	1.17E-04	8741	
D00004959	4.43	2.42	16.70	9/13/2017	PT2.2	2.01	3.7E-05	3.80E-03	266	
D00004978	5.54	3.81	17.20	9/13/2017	PT2.2	1.73	2.9E-06	1.55E-04	6579	
D00004983	5.64	3.00	17.40	9/13/2017	PT2.2	2.64	2.3E-06	1.00E-03	1002	
D00004993	6.34	3.72	18.40	9/13/2017	PT2.2	2.62	4.6E-07	1.91E-04	5261	
D00006107	3.90	2.64	19.10	9/13/2017	PT2.2	1.26	1.3E-04	2.29E-03	462	
D00006148	5.85	5.05	18.70	9/13/2017	PT2.2	0.80	1.4E-06	8.91E-06	133334	
D00006228	6.20	3.55	18.30	9/13/2017	PT2.2	2.65	6.3E-07	2.82E-04	3556	
D00006264	5.24	2.69	17.40	9/13/2017	PT2.2	2.55	5.8E-06	2.04E-03	491	
D00006326	5.82	2.98	17.40	9/13/2017	PT2.2	2.84	1.5E-06	1.05E-03	956	
D00006332	5.94	4.22	16.60	9/13/2017	PT2.2	1.72	1.1E-06	6.03E-05	16918	
D00006336	6.14	5.33	16.90	9/13/2017	PT2.2	0.81	7.2E-07	4.68E-06	252978	
D00006343	6.19	4.53	16.50	9/13/2017	PT2.2	1.66	6.5E-07	2.95E-05	34642	
D00006437	4.68	3.46	16.60	9/13/2017	PT2.2	1.22	2.1E-05	3.47E-04	3069	
D00006469	5.29	2.80	15.70	9/13/2017	PT2.2	2.49	5.1E-06	1.58E-03	633	
D00006589	6.07	3.88	15.50	9/13/2017	PT2.2	2.19	8.5E-07	1.32E-04	7635	
D00006654	5.67	3.90	15.90	9/13/2017	PT2.2	1.77	2.1E-06	1.26E-04	8081	
D00006746	5.37	4.05	15.70	9/13/2017	PT2.2	1.32	4.3E-06	8.91E-05	11784	
D00006796	5.88	4.27	15.60	9/13/2017	PT2.2	1.61	1.3E-06	5.37E-05	19089	
D00006819	4.50	2.89	15.90	9/13/2017	PT2.2	1.61	3.2E-05	1.29E-03	796	
D00006820	4.56	3.06	15.90	9/13/2017	PT2.2	1.50	2.8E-05	8.71E-04	1186	
D00006835	5.06	3.53	19.80	9/13/2017	PT2.2	1.53	8.7E-06	2.95E-04	3491	
D00006862	5.84	2.93	19.40	9/13/2017	PT2.2	2.91	1.4E-06	1.17E-03	852	
D00006927	5.83	4.59	18.30	9/13/2017	PT2.2	1.24	1.5E-06	2.57E-05	41280	
D00007187	5.97	3.40	18.30	9/13/2017	PT2.2	2.57	1.1E-06	3.98E-04	2519	
D00007213	5.67	3.71	17.60	9/13/2017	PT2.2	1.96	2.1E-06	1.95E-04	5185	
D00007230	5.42	2.64	18.20	9/13/2017	PT2.2	2.78	3.8E-06	2.29E-03	437	
D00007301	6.10	3.59	17.20	9/13/2017	PT2.2	2.51	7.9E-07	2.57E-04	3903	
D00007343	6.28	3.62	17.00	9/13/2017	PT2.2	2.66	5.2E-07	2.40E-04	4178	
D00007488	5.31	2.80	17.60	9/13/2017	PT2.2	2.51	4.9E-06	1.58E-03	633	
D00007571	4.14	2.77	17.20	9/13/2017	PT2.2	1.37	7.2E-05	1.70E-03	615	
D00007572	5.96	4.81	17.30	9/13/2017	PT2.2	1.15	1.1E-06	1.55E-05	69485	
D00007575	5.88	4.39	17.00	9/13/2017	PT2.2	1.49	1.3E-06	4.07E-05	25368	
D00007594	6.31	4.85	17.00	9/13/2017	PT2.2	1.46	4.9E-07	1.41E-05	73337	
D00007595	6.54	5.40	16.60	9/13/2017	PT2.2	1.14	2.9E-07	3.98E-06	270807	
D00007596	5.64	3.60	16.40	9/13/2017	PT2.2	2.04	2.3E-06	2.51E-04	4018	
D00007597	4.90	3.30	17.30	9/13/2017	PT2.2	1.60	1.3E-05	5.01E-04	2047	
D00007598	5.24	3.42	17.00	9/13/2017	PT2.2	1.82	5.8E-06	3.80E-04	2671	
D00007599	6.20	5.09	17.20	9/13/2017	PT2.2	1.11	6.3E-07	8.13E-06	133380	
D00007601	4.85	2.90	16.20	9/13/2017	PT2.2	1.95	1.4E-05	1.26E-03	803	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007602	5.26	2.84	16.50	9/13/2017	PT2.2	2.42	5.5E-06	1.45E-03	694	
_GravelPitSTD	6.76	3.27	16.3	9/13/2017	PT2.2	3.49	1.7E-07	5.37E-04	1863	
D00006112	5.36	4.23	19.60	9/13/2017	Oakton	1.13	4.4E-06	5.89E-05	18342	
D00006143	5.56	3.88	18.60	9/13/2017	Oakton	1.68	2.8E-06	1.32E-04	7748	
D00006233	6.34	5.07	17.70	9/13/2017	Oakton	1.27	4.6E-07	8.51E-06	124157	
D00006269	6.23	3.39	17.20	9/13/2017	Oakton	2.84	5.9E-07	4.07E-04	2458	
D00006443				9/13/2017	Oakton					Sample missing
D00006464	6.22	4.97	16.90	9/13/2017	Oakton	1.25	6.0E-07	1.07E-05	98886	
D00006594	6.45	4.48	16.40	9/13/2017	Oakton	1.97	3.5E-07	3.31E-05	30527	
D00006659	5.92	4.48	16.70	9/13/2017	Oakton	1.44	1.2E-06	3.31E-05	31337	
D00006674	5.45	3.21	16.30	9/13/2017	Oakton	2.24	3.5E-06	6.17E-04	1631	
D00006751	4.53	3.57	16.20	9/13/2017	Oakton	0.96	3.0E-05	2.69E-04	4173	
D00006802	6.57	4.59	15.80	9/13/2017	Oakton	1.98	2.7E-07	2.57E-05	39316	
D00006814	5.65	3.35	15.50	9/13/2017	Oakton	2.30	2.2E-06	4.47E-04	2250	
D00007192	5.77	4.22	15.40	9/13/2017	Oakton	1.55	1.7E-06	6.03E-05	17077	
D00007225	5.74	3.62	15.40	9/13/2017	Oakton	2.12	1.8E-06	2.40E-04	4201	
D00007306	5.15	2.08	15.30	9/13/2017	Oakton	3.07	7.1E-06	8.32E-03	120	
D00007348	4.71	3.11	20.90	9/13/2017	Oakton	1.60	1.9E-05	7.76E-04	1321	
D00007378	5.76	3.81	19.70	9/13/2017	Oakton	1.95	1.7E-06	1.55E-04	6530	
D00007464	5.82	4.20	19.60	9/13/2017	Oakton	1.62	1.5E-06	6.31E-05	16238	
D00007472	6.72	4.44	18.90	9/13/2017	Oakton	2.28	1.9E-07	3.63E-05	27688	
D00007475	6.57	5.31	18.20	9/13/2017	Oakton	1.26	2.7E-07	4.90E-06	216046	
D00007479	6.18	4.65	18.00	9/13/2017	Oakton	1.53	6.6E-07	2.24E-05	46027	
D00007480	5.81	4.27	18.00	9/13/2017	Oakton	1.54	1.5E-06	5.37E-05	19174	
D00007483	5.50	4.22	17.80	9/13/2017	Oakton	1.28	3.2E-06	6.03E-05	17515	
D00007565	5.80	4.90	17.90	9/13/2017	Oakton	0.90	1.6E-06	1.26E-05	90873	
D00007581	4.13	3.09	17.60	9/13/2017	Oakton	1.04	7.4E-05	8.13E-04	1354	
D00007589	5.16	3.59	17.40	9/13/2017	Oakton	1.57	6.9E-06	2.57E-04	3998	
D00007624	4.80	3.29	17.10	9/13/2017	Oakton	1.51	1.6E-05	5.13E-04	2012	
D00007625	4.62	3.32	16.70	9/13/2017	Oakton	1.30	2.4E-05	4.79E-04	2200	
D00007632	5.88	4.12	16.80	9/13/2017	Oakton	1.76	1.3E-06	7.59E-05	13416	
D00007633	5.29	2.72	16.70	9/13/2017	Oakton	2.57	5.1E-06	1.91E-03	526	
D00007634	4.51	2.96	16.60	9/13/2017	Oakton	1.55	3.1E-05	1.10E-03	938	One and a bit drops of acid
D00007635	6.69	5.11	16.80	9/13/2017	Oakton	1.58	2.0E-07	7.76E-06	132305	
D00007636	5.26	4.21	17.30	9/13/2017	Oakton	1.05	5.5E-06	6.17E-05	17805	
D00007637	5.31	3.80	16.70	9/13/2017	Oakton	1.51	4.9E-06	1.58E-04	6511	
_GravelPitSTD	8.52	3.86	16.5	9/13/2017	Oakton	4.66	3.0E-09	1.38E-04	7245	
D00006117	4.35	2.53	17.10	9/13/2017	Oakton	1.82	4.5E-05	2.95E-03	344	
D00006137	6.01	5.23	17.40	9/13/2017	Oakton	0.78	9.8E-07	5.89E-06	203616	
D00006192	5.16	2.95	17.10	9/13/2017	Oakton	2.21	6.9E-06	1.12E-03	897	
D00006193	5.67	4.03	17.20	9/13/2017	Oakton	1.64	2.1E-06	9.33E-05	10966	
D00006194	5.43	3.97	17.20	9/13/2017	Oakton	1.46	3.7E-06	1.07E-04	9668	
D00006195	4.20	2.99	18.30	9/13/2017	Oakton	1.21	6.3E-05	1.02E-03	1041	
D00006196	4.09	3.37	18.10	9/13/2017	Oakton	0.72	8.1E-05	4.27E-04	2896	
D00006274	4.72	3.67	17.90	9/13/2017	Oakton	1.05	1.9E-05	2.14E-04	5135	
D00006307	6.07	4.52	17.70	9/13/2017	Oakton	1.55	8.5E-07	3.02E-05	34073	
D00006310	5.85	3.58	17.70	9/13/2017	Oakton	2.27	1.4E-06	2.63E-04	3822	
D00006450	4.29	2.65	17.60	9/13/2017	Oakton	1.64	5.1E-05	2.24E-03	457	
D00006459	4.58	3.17	17.60	9/13/2017	Oakton	1.41	2.6E-05	6.76E-04	1539	
D00006599	4.60	3.22	17.10	9/13/2017	Oakton	1.38	2.5E-05	6.03E-04	1732	
D00006600	4.17	3.19	18.20	9/13/2017	Oakton	0.98	6.8E-05	6.46E-04	1730	
D00006669	5.08	3.47	18.20	9/13/2017	Oakton	1.61	8.3E-06	3.39E-04	3025	
D00006756	4.62	2.71	17.60	9/13/2017	Oakton	1.91	2.4E-05	1.95E-03	519	
D00006807	5.78	4.38	17.80	9/13/2017	Oakton	1.40	1.7E-06	4.17E-05	24983	
D00006809	5.77	4.62	17.60	9/13/2017	Oakton	1.15	1.7E-06	2.40E-05	44863	
D00007219	5.31	2.92	17.80	9/13/2017	Oakton	2.39	4.9E-06	1.20E-03	835	
D00007220	5.33	3.18	17.90	9/13/2017	Oakton	2.15	4.7E-06	6.61E-04	1524	
D00007311	6.45	5.39	17.80	9/13/2017	Oakton	1.06	3.5E-07	4.07E-06	268890	
D00007353	4.24	2.80	17.80	9/13/2017	Oakton	1.44	5.8E-05	1.58E-03	655	
D00007373	4.38	3.03	17.80	9/13/2017	Oakton	1.35	4.2E-05	9.33E-04	1122	
D00007561										Missing sample
D00007659	4.31	3.14	17.90	9/13/2017	Oakton	1.17	4.9E-05	7.24E-04	1480	
D00007660	4.43	3.30	17.70	9/13/2017	Oakton	1.13	3.7E-05	5.01E-04	2155	
_GravelPitSTD	8.00	4.00	17.4	9/13/2017	Oakton	4.00	1.0E-08	1.00E-04	10001	
D00004669	6.91	5.07	17.70	9/13/2017	Oakton	1.84	1.2E-07	8.51E-06	119209	
D00006122	6.24	3.69	17.60	9/13/2017	Oakton	2.55	5.8E-07	2.04E-04	4912	
D00006132	6.32	5.64	17.50	9/13/2017	Oakton	0.68	4.8E-07	2.29E-06	551804	Really full sample
D00006284	4.85	3.10	17.60	9/13/2017	Oakton	1.75	1.4E-05	7.94E-04	1282	
D00006315	7.06	4.43	17.40	9/13/2017	Oakton	2.63	8.7E-08	3.72E-05	26979	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006324	7.18	6.04	17.40	9/13/2017	Oakton	1.14	6.6E-08	9.12E-07	1182115	
D00006487	4.38	2.53	17.60	9/13/2017	Oakton	1.85	4.2E-05	2.95E-03	344	
D00006495	6.65	4.54	17.80	9/13/2017	Oakton	2.11	2.2E-07	2.88E-05	34945	
D00006664	5.26	2.55	17.60	9/13/2017	Oakton	2.71	5.5E-06	2.82E-03	356	
D00006764	5.09	2.43	17.40	9/13/2017	Oakton	2.66	8.1E-06	3.72E-03	270	Drop and a half of acid
D00006905	6.71	4.24	17.50	9/13/2017	Oakton	2.47	1.9E-07	5.75E-05	17437	
D00006916	6.32	4.76	17.40	9/13/2017	Oakton	1.56	4.8E-07	1.74E-05	59174	
D00006922	6.46	4.23	17.40	9/13/2017	Oakton	2.23	3.5E-07	5.89E-05	17083	
D00007317	4.85	2.82	17.60	9/13/2017	Oakton	2.03	1.4E-05	1.51E-03	667	
D00007358	5.74	4.11	17.40	9/13/2017	Oakton	1.63	1.8E-06	7.76E-05	13192	
D00007369	7.28	3.73	16.80	9/13/2017	Oakton	3.55	5.2E-08	1.86E-04	5372	
D00007434	5.94	2.83	17.60	9/13/2017	Oakton	3.11	1.1E-06	1.48E-03	677	
D00007436	7.17	3.49	17.40	9/13/2017	Oakton	3.68	6.8E-08	3.24E-04	3091	
D00007444	5.82	2.60	17.50	9/13/2017	Oakton	3.22	1.5E-06	2.51E-03	398	
D00007554	5.09	2.65	17.10	9/13/2017	Oakton	2.44	8.1E-06	2.24E-03	448	
GravelPitSTD	8.60	3.83	17.4	9/13/2017	Oakton	4.77	2.5E-09	1.48E-04	6761	
D00004610	5.94	2.83	17.10	9/13/2017	PT2.2	3.11	1.1E-06	1.48E-03	677	
D00004617	6.00	3.17	17.00	9/13/2017	PT2.2	2.83	1.0E-06	6.76E-04	1481	
D00004651	6.00	2.54	17.10	9/13/2017	PT2.2	3.46	1.0E-06	2.88E-03	347	
D00004657	5.65	4.51	17.50	9/13/2017	PT2.2	1.14	2.2E-06	3.09E-05	34887	
D00004661	4.89	3.25	17.10	9/13/2017	PT2.2	1.64	1.3E-05	5.62E-04	1820	
D00004664	5.72	4.56	17.10	9/13/2017	PT2.2	1.16	1.9E-06	2.75E-05	39006	
D00004679	5.76	4.14	17.10	9/13/2017	PT2.2	1.62	1.7E-06	7.24E-05	14143	
D00004680	5.74	4.13	16.60	9/13/2017	PT2.2	1.61	1.8E-06	7.41E-05	13829	
D00004681	6.02	5.14	17.00	9/13/2017	PT2.2	0.88	9.5E-07	7.24E-06	158999	
D00006289	6.21	2.85	16.50	9/13/2017	PT2.2	3.36	6.2E-07	1.41E-03	708	
D00006492	5.44	4.54	17.10	9/13/2017	PT2.2	0.90	3.6E-06	2.88E-05	39668	
D00006498	5.45	3.45	17.10	9/13/2017	PT2.2	2.00	3.5E-06	3.55E-04	2847	
D00006499	4.55	3.09	16.70	9/13/2017	PT2.2	1.46	2.8E-05	8.13E-04	1274	
D00006500	5.35	3.05	16.90	9/13/2017	PT2.2	2.30	4.5E-06	8.91E-04	1128	
D00006769	4.86	3.17	16.80	9/13/2017	PT2.2	1.69	1.4E-05	6.76E-04	1510	
D00006910	5.39	4.47	17.00	9/13/2017	PT2.2	0.92	4.1E-06	3.39E-05	33545	
D00006911	4.17	2.55	16.90	9/13/2017	PT2.2	1.62	6.8E-05	2.82E-03	364	
D00007323										Sample missing
D00007363	4.49	2.40	16.30	9/13/2017	PT2.2	2.09	3.2E-05	3.98E-03	253	2 drops of acid by accident
D00007364	5.99	4.58	16.30	9/13/2017	PT2.2	1.41	1.0E-06	2.63E-05	39558	
D00007365	6.32	3.24	16.20	9/13/2017	PT2.2	3.08	4.8E-07	5.75E-04	1739	
D00007452	5.27	3.32	16.60	9/13/2017	PT2.2	1.95	5.4E-06	4.79E-04	2113	
D00007453	4.32	2.45	16.50	9/13/2017	PT2.2	1.87	4.8E-05	3.55E-03	286	
D00007517	5.68	3.45	16.10	9/13/2017	PT2.2	2.23	2.1E-06	3.55E-04	2835	
D00007518	5.19	2.57	16.10	9/13/2017	PT2.2	2.62	6.5E-06	2.69E-03	372	
D00007519	5.36	3.44	16.50	9/13/2017	PT2.2	1.92	4.4E-06	3.63E-04	2788	
D00007520	5.12	2.70	16.20	9/13/2017	PT2.2	2.42	7.6E-06	2.00E-03	503	
_GravelPitSTD	6.42	3.83	16.5	9/13/2017	PT2.2	2.59	3.8E-07	1.48E-04	6778	
D00007726	5.72	4.00	17.20	9/13/2017	Oakton	1.72	1.9E-06	1.00E-04	10194	
D00007727	5.71	3.65	17.20	9/13/2017	Oakton	2.06	1.9E-06	2.24E-04	4506	
D00007728	5.34	3.26	17.60	9/13/2017	Oakton	2.08	4.6E-06	5.50E-04	1835	
D00007754	6.55	3.10	17.90	9/13/2017	Oakton	3.45	2.8E-07	7.94E-04	1259	
D00007755	4.75	2.66	17.30	9/13/2017	Oakton	2.09	1.8E-05	2.19E-03	461	
D00007756	4.62	3.36	17.60	9/13/2017	Oakton	1.26	2.4E-05	4.37E-04	2424	
D00007802	4.20	2.93	17.70	9/13/2017	Oakton	1.27	6.3E-05	1.17E-03	899	
D00007803	4.07	2.67	18.70	9/13/2017	Oakton	1.40	8.5E-05	2.14E-03	487	
D00007808	4.46	3.27	18.90	9/13/2017	Oakton	1.19	3.5E-05	5.37E-04	1991	
D00007809	4.78	3.36	19.10	9/13/2017	Oakton	1.42	1.7E-05	4.37E-04	2381	
_InstruCAL	-	-	-	9/14/2017	PT2.2	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	4.02	-	30.2	9/14/2017	PT2.2	####	9.5E-05	#VALUE!	#VALUE!	
_pH7STD	7.01	-	31.6	9/14/2017	PT2.2	####	9.8E-08	#VALUE!	#VALUE!	
_pH10STD	10.06	-	31.4	9/14/2017	PT2.2	####	8.7E-11	#VALUE!	#VALUE!	
_InstruCAL	-	-		9/14/2017	Oakton	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	4.01	-	27.1	9/14/2017	Oakton	####	9.8E-05	#VALUE!	#VALUE!	
_pH7STD	7.02	-	27.1	9/14/2017	Oakton	####	9.5E-08	#VALUE!	#VALUE!	
_pH10STD	10.03	-	27.4	9/14/2017	Oakton	####	9.3E-11	#VALUE!	#VALUE!	
D00007521	5.77	3.04	32.30	9/14/2017	PT2.2	2.73	1.7E-06	9.12E-04	1099	
D00007522	5.58	2.89	29.60	9/14/2017	PT2.2	2.69	2.6E-06	1.29E-03	778	
D00007523	4.70	2.79	29.70	9/14/2017	PT2.2	1.91	2.0E-05	1.62E-03	624	
D00007524	5.12	2.80	29.40	9/14/2017	PT2.2	2.32	7.6E-06	1.58E-03	634	
D00007525	4.92	2.65	27.60	9/14/2017	PT2.2	2.27	1.2E-05	2.24E-03	449	
D00007526	5.04	2.90	24.10	9/14/2017	PT2.2	2.14	9.1E-06	1.26E-03	800	
D00007527	5.05	2.53	23.80	9/14/2017	PT2.2	2.52	8.9E-06	2.95E-03	340	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00004621	7.35	6.15	26.80	9/14/2017	Oakton	1.20	4.5E-08	7.08E-07	1507665	
D00004757	6.24	5.14	26.20	9/14/2017	Oakton	1.10	5.8E-07	7.24E-06	149949	
D00004798	6.24	3.77	25.80	9/14/2017	Oakton	2.47	5.8E-07	1.70E-04	5908	
D00004799	4.42	3.70	25.60	9/14/2017	Oakton	0.72	3.8E-05	2.00E-04	6192	
D00004800	4.86	3.33	24.70	9/14/2017	Oakton	1.53	1.4E-05	4.68E-04	2203	
D00004801	5.68	4.36	24.30	9/14/2017	Oakton	1.32	2.1E-06	4.37E-05	24060	
D00004802	5.04	4.16	23.90	9/14/2017	Oakton	0.88	9.1E-06	6.92E-05	16649	
D00007815	3.80	3.10	23.40	9/14/2017	Oakton	0.70	1.6E-04	7.94E-04	1573	
D00007816	5.85	3.35	23.30	9/14/2017	Oakton	2.50	1.4E-06	4.47E-04	2246	
D00007817	4.45	3.76	22.80	9/14/2017	Oakton	0.69	3.5E-05	1.74E-04	7231	
D00007818	4.24	3.74	22.50	9/14/2017	Oakton	0.50	5.8E-05	1.82E-04	8037	
D00007819	4.80	3.14	22.10	9/14/2017	Oakton	1.66	1.6E-05	7.24E-04	1411	
D00007820	4.61	3.16	22.10	9/14/2017	Oakton	1.45	2.5E-05	6.92E-04	1499	
D00004622	5.88	5.51	23.30	9/14/2017	PT2.2	0.37	1.3E-06	3.09E-06	564322	pH of 4.70 with 2nd drop of acid
D00004758	6.30	5.57	21.10	9/14/2017	PT2.2	0.73	5.0E-07	2.69E-06	456549	pH of 4.79 with 2nd drop of acid
D00004803	5.63	3.45	21.00	9/14/2017	PT2.2	2.18	2.3E-06	3.55E-04	2837	
D00004804	6.16	2.87	20.80	9/14/2017	PT2.2	3.29	6.9E-07	1.35E-03	742	
D00004805	5.85	4.75	20.80	9/14/2017	PT2.2	1.10	1.4E-06	1.78E-05	61086	
D00004822	5.92	2.57	20.70	9/14/2017	PT2.2	3.35	1.2E-06	2.69E-03	372	
D00004823	5.81	2.60	20.50	9/14/2017	PT2.2	3.21	1.5E-06	2.51E-03	398	
D00007930	5.36	3.05	20.70	9/14/2017	PT2.2	2.31	4.4E-06	8.91E-04	1128	
D00007973	5.43	2.72	20.20	9/14/2017	PT2.2	2.71	3.7E-06	1.91E-03	526	
D00007974	5.99	5.20	21.10	9/14/2017	PT2.2	0.79	1.0E-06	6.31E-06	189169	pH of 4.66 with 2nd drop of acid
D00004626	6.20	5.01	22.00	9/14/2017	Oakton	1.19	6.3E-07	9.77E-06	109392	
D00004645	4.73	3.77	21.80	9/14/2017	Oakton	0.96	1.9E-05	1.70E-04	6614	
D00004763	6.20	5.19	21.50	9/14/2017	Oakton	1.01	6.3E-07	6.46E-06	171657	
D00004809	6.26	4.42	21.70	9/14/2017	Oakton	1.84	5.5E-07	3.80E-05	26688	
D00004819	7.51	7.34	21.60	9/14/2017	Oakton	0.17	3.1E-08	4.57E-08	67540804	2nd drop of acid (pH 4.66)
D00004820	7.49	6.08	22.40	9/14/2017	Oakton	1.41	3.2E-08	8.32E-07	1250931	
D00004821	5.61	4.62	22.30	9/14/2017	Oakton	0.99	2.5E-06	2.40E-05	46439	
D00004827	6.06	4.89	22.50	9/14/2017	Oakton	1.17	8.7E-07	1.29E-05	83253	
D00006201	4.40	3.55	22.20	9/14/2017	Oakton	0.85	4.0E-05	2.82E-04	4132	
D00006202	6.72	4.44	21.80	9/14/2017	Oakton	2.28	1.9E-07	3.63E-05	27688	
D00006203	4.94	3.83	21.50	9/14/2017	Oakton	1.11	1.1E-05	1.48E-04	7330	
D00006204	5.27	4.80	21.40	9/14/2017	Oakton	0.47	5.4E-06	1.58E-05	95432	
D00006517	5.42	4.35	21.20	9/14/2017	Oakton	1.07	3.8E-06	4.47E-05	24470	
D00006518	4.58	3.65	21.20	9/14/2017	Oakton	0.93	2.6E-05	2.24E-04	5062	
D00006519	4.76	3.28	21.00	9/14/2017	Oakton	1.48	1.7E-05	5.25E-04	1971	
D00006520	4.71	3.39	20.80	9/14/2017	Oakton	1.32	1.9E-05	4.07E-04	2578	
D00006525	4.32	3.29	20.60	9/14/2017	Oakton	1.03	4.8E-05	5.13E-04	2151	
D00006526	5.04	3.88	20.40	9/14/2017	Oakton	1.16	9.1E-06	1.32E-04	8150	
D00007133	5.37	4.77	20.50	9/14/2017	Oakton	0.60	4.3E-06	1.70E-05	78637	
D00007926	6.18	5.37	20.40	9/14/2017	Oakton	0.81	6.6E-07	4.27E-06	277385	
D00007931	4.19	3.50	20.30	9/14/2017	Oakton	0.69	6.5E-05	3.16E-04	3974	
D00007978	5.26	4.54	20.20	9/14/2017	Oakton	0.72	5.5E-06	2.88E-05	42836	
_GravelPitSTD	8.06	4.86	20.3	9/14/2017	Oakton	3.20	8.7E-09	1.38E-05	72489	
D00004627	6.27	3.75	26.00	9/14/2017	PT2.2	2.52	5.4E-07	1.78E-04	5640	
D00004644	6.46	4.10	21.70	9/14/2017	PT2.2	2.36	3.5E-07	7.94E-05	12644	
D00004646	5.63	3.98	21.70	9/14/2017	PT2.2	1.65	2.3E-06	1.05E-04	9769	
D00004764	6.25	5.97	21.20	9/14/2017	PT2.2	0.28	5.6E-07	1.07E-06	1963950	2nd drop of acid added (pH 5.26)
D00004793	6.06	4.72	21.40	9/14/2017	PT2.2	1.34	8.7E-07	1.91E-05	54994	
D00004794	6.38	5.64	21.80	9/14/2017	PT2.2	0.74	4.2E-07	2.29E-06	533618	
D00004828	6.57	4.46	21.30	9/14/2017	PT2.2	2.11	2.7E-07	3.47E-05	29066	
D00004836	5.93	3.62	20.70	9/14/2017	PT2.2	2.31	1.2E-06	2.40E-04	4189	
D00006205	5.76	4.28	21.00	9/14/2017	PT2.2	1.48	1.7E-06	5.25E-05	19707	
D00006521	5.94	3.01	20.40	9/14/2017	PT2.2	2.93	1.1E-06	9.77E-04	1024	
D00006522	5.89	4.01	20.20	9/14/2017	PT2.2	1.88	1.3E-06	9.77E-05	10370	
D00006523	6.01	3.07	20.20	9/14/2017	PT2.2	2.94	9.8E-07	8.51E-04	1176	
D00006524	5.76	3.33	20.00	9/14/2017	PT2.2	2.43	1.7E-06	4.68E-04	2146	
D00006527	5.89	3.34	19.60	9/14/2017	PT2.2	2.55	1.3E-06	4.57E-04	2194	
D00007134	4.93	3.30	19.50	9/14/2017	PT2.2	1.63	1.2E-05	5.01E-04	2043	
D00007144	5.29	2.50	19.80	9/14/2017	PT2.2	2.79	5.1E-06	3.16E-03	317	
D00007145	5.28	2.65	19.50	9/14/2017	PT2.2	2.63	5.2E-06	2.24E-03	448	
D00007146	4.75	2.58	19.40	9/14/2017	PT2.2	2.17	1.8E-05	2.63E-03	383	
D00007147	5.26	2.56	19.10	9/14/2017	PT2.2	2.70	5.5E-06	2.75E-03	364	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007148	6.07	2.64	22.00	9/14/2017	PT2.2	3.43	8.5E-07	2.29E-03	437	1 and a half acid drops added
D00007149	5.13	3.08	21.10	9/14/2017	PT2.2	2.05	7.4E-06	8.32E-04	1213	
D00007150	5.54	2.41	20.80	9/14/2017	PT2.2	3.13	2.9E-06	3.89E-03	257	
D00007151	5.03	2.89	21.10	9/14/2017	PT2.2	2.14	9.3E-06	1.29E-03	782	
D00007152	5.12	2.92	20.50	9/14/2017	PT2.2	2.20	7.6E-06	1.20E-03	837	
D00007153	5.48	2.51	20.30	9/14/2017	PT2.2	2.97	3.3E-06	3.09E-03	324	
D00007154	5.34	2.77	20.20	9/14/2017	PT2.2	2.57	4.6E-06	1.70E-03	590	
D00007155	5.55	2.50	19.30	9/14/2017	PT2.2	3.05	2.8E-06	3.16E-03	317	
D00007156	5.35	2.77	19.70	9/14/2017	PT2.2	2.58	4.5E-06	1.70E-03	590	
D00007157	4.76	2.77	19.60	9/14/2017	PT2.2	1.99	1.7E-05	1.70E-03	595	
D00007158	4.45	3.25	19.90	9/14/2017	PT2.2	1.20	3.5E-05	5.62E-04	1898	
D00007159	5.21	2.71	19.10	9/14/2017	PT2.2	2.50	6.2E-06	1.95E-03	514	
D00007160	5.02	3.38	19.30	9/14/2017	PT2.2	1.64	9.5E-06	4.17E-04	2455	
D00007161	4.94	2.67	19.10	9/14/2017	PT2.2	2.27	1.1E-05	2.14E-03	470	
D00007162	5.18	2.43	18.90	9/14/2017	PT2.2	2.75	6.6E-06	3.72E-03	270	
D00007163	5.58	2.54	18.90	9/14/2017	PT2.2	3.04	2.6E-06	2.88E-03	347	
D00007164	6.17	2.99	18.80	9/14/2017	PT2.2	3.18	6.8E-07	1.02E-03	978	
D00007917				9/14/2017						Completed on previous date
D00007925	5.90	4.49	18.60	9/14/2017	PT2.2	1.41	1.3E-06	3.24E-05	32154	
D00007932	5.10	2.92	18.70	9/14/2017	PT2.2	2.18	7.9E-06	1.20E-03	837	
D00007979	5.38	3.56	18.40	9/14/2017	PT2.2	1.82	4.2E-06	2.75E-04	3687	
D00007980	5.55	4.39	18.50	9/14/2017	PT2.2	1.16	2.8E-06	4.07E-05	26372	
_GravelPitSTD	6.19	3.59	18.1	9/14/2017	PT2.2	2.60	6.5E-07	2.57E-04	3900	
D00007729	6.13	4.64	20.90	9/14/2017	Oakton	1.49	7.4E-07	2.29E-05	45111	
D00007730	6.25	5.01	20.80	9/14/2017	Oakton	1.24	5.6E-07	9.77E-06	108577	
D00007731	5.53	3.99	20.30	9/14/2017	Oakton	1.54	3.0E-06	1.02E-04	10063	
D00007732	5.28	3.38	20.30	9/14/2017	Oakton	1.90	5.2E-06	4.17E-04	2429	
D00007733	5.18	4.22	20.20	9/14/2017	Oakton	0.96	6.6E-06	6.03E-05	18640	
D00007734	4.22	2.95	20.10	9/14/2017	Oakton	1.27	6.0E-05	1.12E-03	942	
D00007735	4.63	3.38	20.10	9/14/2017	Oakton	1.25	2.3E-05	4.17E-04	2542	
D00007736	4.79	3.15	20.20	9/14/2017	Oakton	1.64	1.6E-05	7.08E-04	1446	
D00007737	5.26	3.20	20.00	9/14/2017	Oakton	2.06	5.5E-06	6.31E-04	1599	
D00007738	5.26	3.10	19.90	9/14/2017	Oakton	2.16	5.5E-06	7.94E-04	1268	
D00007739	4.72	3.61	19.80	9/14/2017	Oakton	1.11	1.9E-05	2.45E-04	4417	
D00007740	5.14	3.74	22.00	9/14/2017	Oakton	1.40	7.2E-06	1.82E-04	5723	
D00007741	4.87	3.05	22.00	9/14/2017	Oakton	1.82	1.3E-05	8.91E-04	1139	
D00007742	5.14	2.18	21.80	9/14/2017	Oakton	2.96	7.2E-06	6.61E-03	152	
D00007743	4.98	2.78	21.10	9/14/2017	Oakton	2.20	1.0E-05	1.66E-03	606	
D00007744	5.30	3.66	21.10	9/14/2017	Oakton	1.64	5.0E-06	2.19E-04	4678	
D00007745	4.73	2.78	21.00	9/14/2017	Oakton	1.95	1.9E-05	1.66E-03	609	
D00007746	4.59	2.78	20.30	9/14/2017	Oakton	1.81	2.6E-05	1.66E-03	612	
D00007747	6.63	3.21	19.70	9/14/2017	Oakton	3.42	2.3E-07	6.17E-04	1622	
D00007748	4.65	3.09	19.80	9/14/2017	Oakton	1.56	2.2E-05	8.13E-04	1265	
D00007749	5.23	2.31	19.70	9/14/2017	Oakton	2.92	5.9E-06	4.90E-03	204	
D00007750	5.94	3.66	19.20	9/14/2017	Oakton	2.28	1.1E-06	2.19E-04	4595	
D00007751	6.08	3.22	19.20	9/14/2017	Oakton	2.86	8.3E-07	6.03E-04	1662	
D00007752	5.06	3.94	18.90	9/14/2017	Oakton	1.12	8.7E-06	1.15E-04	9425	
D00007753	4.24	3.20	18.80	9/14/2017	Oakton	1.04	5.8E-05	6.31E-04	1744	
D00007797	4.90	2.98	18.50	9/14/2017	Oakton	1.92	1.3E-05	1.05E-03	967	
D00007801	5.04	3.23	18.40	9/14/2017	Oakton	1.81	9.1E-06	5.89E-04	1725	
D00007804	4.80	3.06	18.30	9/14/2017	Oakton	1.74	1.6E-05	8.71E-04	1169	
D00007807	5.22	2.78	18.30	9/14/2017	Oakton	2.44	6.0E-06	1.66E-03	605	
D00007810	5.08	2.85	18.20	9/14/2017	Oakton	2.23	8.3E-06	1.41E-03	712	
D00007811	6.34	3.99	18.10	9/14/2017	Oakton	2.35	4.6E-07	1.02E-04	9816	
D00007812	5.43	2.88	17.40	9/14/2017	Oakton	2.55	3.7E-06	1.32E-03	761	
_GravelPitSTD	8.52	4.24	20.5	9/14/2017	Oakton	4.28	3.0E-09	5.75E-05	17379	
D00004631	6.04	4.71	20.10	9/14/2017	Oakton	1.33	9.1E-07	1.95E-05	53803	
D00004639	5.29	4.23	22.80	9/14/2017	Oakton	1.06	5.1E-06	5.89E-05	18603	
D00004640	5.31	4.22	22.20	9/14/2017	Oakton	1.09	4.9E-06	6.03E-05	18064	
D00004650	6.16	4.35	21.70	9/14/2017	Oakton	1.81	6.9E-07	4.47E-05	22739	
D00004690	5.01	4.33	21.10	9/14/2017	Oakton	0.68	9.8E-06	4.68E-05	27026	
D00004768	7.37	5.10	21.10	9/14/2017	Oakton	2.27	4.3E-08	7.94E-06	126572	
D00004789		3.80	20.80	9/14/2017	Oakton					First reading was measured wrong
D00004832	7.04	4.75	20.80	9/14/2017	Oakton	2.29	9.1E-08	1.78E-05	56524	
D00006209	4.58	3.43	20.30	9/14/2017	Oakton	1.15	2.6E-05	3.72E-04	2897	
D00006373	4.73	3.65	20.10	9/14/2017	Oakton	1.08	1.9E-05	2.24E-04	4872	
D00006397	4.08	3.00	19.80	9/14/2017	Oakton	1.08	8.3E-05	1.00E-03	1091	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006398	5.23	2.64	19.90	9/14/2017	Oakton	2.59	5.9E-06	2.29E-03	438	
D00006399	5.26	3.89	19.70	9/14/2017	Oakton	1.37	5.5E-06	1.29E-04	8108	
D00006400	3.87	3.08	19.30	9/14/2017	Oakton	0.79	1.3E-04	8.32E-04	1435	
D00006401	3.36	2.73	18.90	9/14/2017	Oakton	0.63	4.4E-04	1.86E-03	701	
D00006402	4.86	3.60	18.70	9/14/2017	Oakton	1.26	1.4E-05	2.51E-04	4213	
D00006403	4.09	2.78	18.50	9/14/2017	Oakton	1.31	8.1E-05	1.66E-03	634	
D00006404	4.68	3.89	18.40	9/14/2017	Oakton	0.79	2.1E-05	1.29E-04	9265	
D00006471	6.35	5.27	18.40	9/14/2017	Oakton	1.08	4.5E-07	5.37E-06	203102	
D00006472	4.67	3.99	18.40	9/14/2017	Oakton	0.68	2.1E-05	1.02E-04	12353	
D00006473	4.06	3.33	18.20	9/14/2017	Oakton	0.73	8.7E-05	4.68E-04	2627	
D00006474	6.63	6.35	17.60	9/14/2017	Oakton	0.28	2.3E-07	4.47E-07	4711187	2 drops of acid (pH 3.64)
D00006475	4.33	2.93	17.70	9/14/2017	Oakton	1.40	4.7E-05	1.17E-03	886	
D00006476	4.44	3.35	17.70	9/14/2017	Oakton	1.09	3.6E-05	4.47E-04	2437	
D00006477	4.65	2.80	17.80	9/14/2017	Oakton	1.85	2.2E-05	1.58E-03	640	
D00006478	4.60	2.82	17.80	9/14/2017	Oakton	1.78	2.5E-05	1.51E-03	672	
D00006479	5.61	3.73	17.80	9/14/2017	Oakton	1.88	2.5E-06	1.86E-04	5442	
D00006480	5.64	4.28	17.70	9/14/2017	Oakton	1.36	2.3E-06	5.25E-05	19924	
D00006481	4.38	3.16	17.40	9/14/2017	Oakton	1.22	4.2E-05	6.92E-04	1538	
D00006482	4.60	3.06	17.60	9/14/2017	Oakton	1.54	2.5E-05	8.71E-04	1182	
D00006483	5.26	3.16	17.60	9/14/2017	Oakton	2.10	5.5E-06	6.92E-04	1457	
D00006539	6.93	4.98	17.70	9/14/2017	Oakton	1.95	1.2E-07	1.05E-05	96583	
D00006541	6.83	4.87	18.00	9/14/2017	Oakton	1.96	1.5E-07	1.35E-05	74953	
D00006551	6.22	3.56	17.90	9/14/2017	Oakton	2.66	6.0E-07	2.75E-04	3639	
D00006553	6.33	4.17	18.10	9/14/2017	Oakton	2.16	4.7E-07	6.76E-05	14894	
D00007138	3.99	3.54	18.30	9/14/2017	Oakton	0.45	1.0E-04	2.88E-04	5374	
D00007168	7.72	4.02	18.10	9/14/2017	Oakton	3.70	1.9E-08	9.55E-05	10473	
D00007984	4.53	3.00	18.20	9/14/2017	Oakton	1.53	3.0E-05	1.00E-03	1030	
_GravelPitSTD	8.11	4.89	18.3	9/14/2017	Oakton	3.22	7.8E-09	1.29E-05	77672	
D00004632	5.68	3.38	18.20	9/14/2017	PT2.2	2.30	2.1E-06	4.17E-04	2411	
D00004638	5.96	5.15	17.90	9/14/2017	PT2.2	0.81	1.1E-06	7.08E-06	167141	2nd acid drop (pH of 4.50)
D00004682	6.40	4.81	17.90	9/14/2017	PT2.2	1.59	4.0E-07	1.55E-05	66269	
D00004689	6.11	5.52	18.00	9/14/2017	PT2.2	0.59	7.8E-07	3.02E-06	445691	
D00004769	5.67	3.14	18.20	9/14/2017	PT2.2	2.53	2.1E-06	7.24E-04	1384	
D00004788	5.66	2.66	18.20	9/14/2017	PT2.2	3.00	2.2E-06	2.19E-03	458	
D00006210	5.72	4.02	18.10	9/14/2017	PT2.2	1.70	1.9E-06	9.55E-05	10684	
D00006236	6.05	5.18	18.60	9/14/2017	PT2.2	0.87	8.9E-07	6.61E-06	174957	
D00006374	5.29	2.94	18.00	9/14/2017	PT2.2	2.35	5.1E-06	1.15E-03	875	
D00006386	5.49	3.25	18.10	9/14/2017	PT2.2	2.24	3.2E-06	5.62E-04	1789	
D00006542	6.13	3.88	18.00	9/14/2017	PT2.2	2.25	7.4E-07	1.32E-04	7629	
D00006549	6.10	4.55	18.10	9/14/2017	PT2.2	1.55	7.9E-07	2.82E-05	36510	
D00006550	6.04	4.47	17.90	9/14/2017	PT2.2	1.57	9.1E-07	3.39E-05	30328	
D00006552	6.00	3.66	18.00	9/14/2017	PT2.2	2.34	1.0E-06	2.19E-04	4592	
D00006554	5.74	3.53	18.00	9/14/2017	PT2.2	2.21	1.8E-06	2.95E-04	3409	
D00006572	5.60	3.02	18.30	9/14/2017	PT2.2	2.58	2.5E-06	9.55E-04	1050	
D00006621	5.05	3.00	18.30	9/14/2017	PT2.2	2.05	8.9E-06	1.00E-03	1009	
D00006622	5.49	3.33	18.40	9/14/2017	PT2.2	2.16	3.2E-06	4.68E-04	2153	
D00006623	5.90	5.16	18.60	9/14/2017	PT2.2	0.74	1.3E-06	6.92E-06	176698	2nd acid drop (pH of 4.83)
D00006624	5.16	4.03	19.20	9/14/2017	PT2.2	1.13	6.9E-06	9.33E-05	11573	
D00006625	5.89	3.52	18.90	9/14/2017	PT2.2	2.37	1.3E-06	3.02E-04	3325	
D00006626	5.98	4.87	19.50	9/14/2017	PT2.2	1.11	1.0E-06	1.35E-05	80370	
D00006627	6.12	4.64	19.10	9/14/2017	PT2.2	1.48	7.6E-07	2.29E-05	45147	
D00006628	5.91	3.04	19.10	9/14/2017	PT2.2	2.87	1.2E-06	9.12E-04	1098	
D00006629	4.92	3.87	19.40	9/14/2017	PT2.2	1.05	1.2E-05	1.35E-04	8138	
D00006630	5.96	4.67	19.10	9/14/2017	PT2.2	1.29	1.1E-06	2.14E-05	49302	
D00006631	7.22	3.39	10.70	9/14/2017	PT2.2	3.83	6.0E-08	4.07E-04	2455	
D00006632	5.03	2.28	10.70	9/14/2017	PT2.2	2.75	9.3E-06	5.25E-03	191	
D00006633	5.74	2.68	10.80	9/14/2017	PT2.2	3.06	1.8E-06	2.09E-03	479	
D00006634	5.45	3.34	11.10	9/14/2017	PT2.2	2.11	3.5E-06	4.57E-04	2205	
D00006635	5.33	2.66	11.40	9/14/2017	PT2.2	2.67	4.7E-06	2.19E-03	458	
D00006636	5.71	3.70	11.70	9/14/2017	PT2.2	2.01	1.9E-06	2.00E-04	5061	
D00006637	4.98		12.80	9/14/2017	PT2.2					
D00006638	5.08	4.23	13.20	9/14/2017	PT2.2	0.85	8.3E-06	5.89E-05	19776	No pH with Acid
D00006639	4.46	2.37	13.20	9/14/2017	PT2.2	2.09	3.5E-05	4.27E-03	236	
D00006778	4.66	2.92	13.90	9/14/2017	PT2.2	1.74	2.2E-05	1.20E-03	847	
D00006844	4.80	2.38	14.50	9/14/2017	PT2.2	2.42	1.6E-05	4.17E-03	241	
D00007139	4.99	2.45	14.80	9/14/2017	PT2.2	2.54	1.0E-05	3.55E-03	283	
D00007169	6.04	4.05	13.40	9/14/2017	PT2.2	1.99	9.1E-07	8.91E-05	11336	
D00007936	5.82	4.32	14.40	9/14/2017	PT2.2	1.50	1.5E-06	4.79E-05	21575	
D00007937	6.44	4.76	14.70	9/14/2017	PT2.2	1.68	3.6E-07	1.74E-05	58772	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007938	6.55	4.65	14.30	9/14/2017	PT2.2	1.90	2.8E-07	2.24E-05	45238	
D00007939	6.03	2.94	14.50	9/14/2017	PT2.2	3.09	9.3E-07	1.15E-03	872	
D00007940	5.57		16.80	9/14/2017	PT2.2					No pH with Acid
D00007941	6.17	5.61	15.00	9/14/2017	PT2.2	0.56	6.8E-07	2.45E-06	562232	
D00007985	4.98	3.49	15.60	9/14/2017	PT2.2	1.49	1.0E-05	3.24E-04	3194	
D00004774	5.96	3.57	17.60	9/14/2017	Oakton	2.39	1.1E-06	2.69E-04	3731	
D00004784	6.84	4.08	17.70	9/14/2017	Oakton	2.76	1.4E-07	8.32E-05	12044	
D00004785	5.40	3.57	17.80	9/14/2017	Oakton	1.83	4.0E-06	2.69E-04	3771	
D00004786	6.07	4.64	17.80	9/14/2017	Oakton	1.43	8.5E-07	2.29E-05	45336	
D00004872	5.51	3.03	17.70	9/14/2017	Oakton	2.48	3.1E-06	9.33E-04	1075	
D00004873	5.43	3.69	17.70	9/14/2017	Oakton	1.74	3.7E-06	2.04E-04	4989	
D00006214	6.44	5.12	17.70	9/14/2017	Oakton	1.32	3.6E-07	7.59E-06	138452	
D00006241	4.55	2.55	17.60	9/14/2017	Oakton	2.00	2.8E-05	2.82E-03	358	
D00006378	6.06	4.06	17.50	9/14/2017	Oakton	2.00	8.7E-07	8.71E-05	11598	
D00006390	6.20	4.12	17.40	9/14/2017	Oakton	2.08	6.3E-07	7.59E-05	13293	
D00006424	4.36	3.19	17.70	9/14/2017	Oakton	1.17	4.4E-05	6.46E-04	1661	
D00006561	7.26	2.89	17.80	9/14/2017	Oakton	4.37	5.5E-08	1.29E-03	776	
D00006562	6.00	3.95	17.90	9/14/2017	Oakton	2.05	1.0E-06	1.12E-04	8993	
D00006567	6.45	3.37	17.80	9/14/2017	Oakton	3.08	3.5E-07	4.27E-04	2346	
D00006576	5.10	2.31	18.20	9/14/2017	Oakton	2.79	7.9E-06	4.90E-03	205	
D00006641	3.89	2.58	18.20	9/14/2017	Oakton	1.31	1.3E-04	2.63E-03	400	
D00006642	5.56	3.53	18.10	9/14/2017	Oakton	2.03	2.8E-06	2.95E-04	3420	
D00006643	5.25	2.30	18.30	9/14/2017	Oakton	2.95	5.6E-06	5.01E-03	200	
D00006644	4.67	3.08	18.60	9/14/2017	Oakton	1.59	2.1E-05	8.32E-04	1234	
D00006645	4.95	3.52	18.80	9/14/2017	Oakton	1.43	1.1E-05	3.02E-04	3439	
D00006646	4.88	2.65	18.80	9/14/2017	Oakton	2.23	1.3E-05	2.24E-03	449	
D00006647	5.63	3.93	18.80	9/14/2017	Oakton	1.70	2.3E-06	1.17E-04	8685	
D00006648	5.50	3.40	18.70	9/14/2017	Oakton	2.10	3.2E-06	3.98E-04	2532	
_GravelPitSTD	8.55	3.11	18.0	9/14/2017	Oakton	5.44	2.8E-09	7.76E-04	1288	
_InstruCAL	-	-	-	9/15/2017	PT2.2	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	4.08	-	10.1	9/15/2017	PT2.2	####	8.3E-05	#VALUE!	#VALUE!	
_pH7STD	6.98	-	10.1	9/15/2017	PT2.2	####	1.0E-07	#VALUE!	#VALUE!	
_pH10STD	10.02	-	10.0	9/15/2017	PT2.2	####	9.5E-11	#VALUE!	#VALUE!	
_InstruCAL	-	-	-	9/15/2017	Oakton	####	#VALUE!	#VALUE!	#VALUE!	
D00004694	5.57	3.12	16.90	9/15/2017	Oakton	2.45	2.7E-06	7.59E-04	1323	
D00004695	4.17	3.42	16.90	9/15/2017	Oakton	0.75	6.8E-05	3.80E-04	3199	
D00004696	4.54	3.21	16.90	9/15/2017	Oakton	1.33	2.9E-05	6.17E-04	1701	
D00004854	4.68	3.20	17.00	9/15/2017	Oakton	1.48	2.1E-05	6.31E-04	1639	
D00004854	4.94	3.34	18.70	9/15/2017	Oakton	1.60	1.1E-05	4.57E-04	2244	Double Sample
D00004856	7.10	5.50	18.90	9/15/2017	Oakton	1.60	7.9E-08	3.16E-06	324376	
D00004865	6.26	4.32	18.80	9/15/2017	Oakton	1.94	5.5E-07	4.79E-05	21136	
D00004866	5.61	3.81	18.60	9/15/2017	Oakton	1.80	2.5E-06	1.55E-04	6561	
D00004966	5.31	3.82	18.60	9/15/2017	Oakton	1.49	4.9E-06	1.51E-04	6828	
D00004967	6.57	4.44	18.40	9/15/2017	Oakton	2.13	2.7E-07	3.63E-05	27748	
D00004968	6.13	4.36	18.20	9/15/2017	Oakton	1.77	7.4E-07	4.37E-05	23304	
D00004969	4.70	2.90	18.20	9/15/2017	Oakton	1.80	2.0E-05	1.26E-03	807	
D00004970	4.81	2.95	18.20	9/15/2017	Oakton	1.86	1.5E-05	1.12E-03	904	
D00004971	4.67	2.81	18.20	9/15/2017	Oakton	1.86	2.1E-05	1.55E-03	655	
D00004972	6.55	5.32	18.30	9/15/2017	Oakton	1.23	2.8E-07	4.79E-06	222002	
D00006162		3.27	18.30	9/15/2017	Oakton					ADDED ACID
D00006164	5.76	4.17	18.30	9/15/2017	Oakton	1.59	1.7E-06	6.76E-05	15181	
D00006167	7.28	3.50	18.30	9/15/2017	Oakton	3.78	5.2E-08	3.16E-04	3163	
D00006220	4.46	3.60	18.60	9/15/2017	Oakton	0.86	3.5E-05	2.51E-04	4619	
D00006221	4.75	3.68	18.70	9/15/2017	Oakton	1.07	1.8E-05	2.09E-04	5232	
D00006247	3.99	3.69	18.80	9/15/2017	Oakton	0.30	1.0E-04	2.04E-04	9819	
D00006256	4.72	2.96	18.80	9/15/2017	Oakton	1.76	1.9E-05	1.10E-03	928	
D00006300	4.59	3.30	18.90	9/15/2017	Oakton	1.29	2.6E-05	5.01E-04	2103	
D00006385	5.18	2.92	19.10	9/15/2017	Oakton	2.26	6.6E-06	1.20E-03	836	
D00006396	4.37	3.90	19.10	9/15/2017	Oakton	0.47	4.3E-05	1.26E-04	12014	
D00006430	8.15	3.91	19.20	9/15/2017	Oakton	4.24	7.1E-09	1.23E-04	8129	
D00006582	5.26	5.92	19.20	9/15/2017	Oakton	-0.66	5.5E-06	1.20E-06	-232930	
D00006738	4.92	3.76	19.20	9/15/2017	Oakton	1.16	1.2E-05	1.74E-04	6182	
D00006823	4.33	3.05	19.30	9/15/2017	Oakton	1.28	4.7E-05	8.91E-04	1184	
D00006830	7.63	3.63	19.60	9/15/2017	Oakton	4.00	2.3E-08	2.34E-04	4266	
D00006843	6.34	5.86	19.90	9/15/2017	Oakton	0.48	4.6E-07	1.38E-06	1083076	
D00006854	6.21	3.73	20.10	9/15/2017	Oakton	2.48	6.2E-07	1.86E-04	5388	
D00006934	6.22	5.22	20.60	9/15/2017	Oakton	1.00	6.0E-07	6.03E-06	184399	
D00006954	7.07	5.23	20.80	9/15/2017	Oakton	1.84	8.5E-08	5.89E-06	172315	
D00006972	5.54	4.90	20.90	9/15/2017	Oakton	0.64	2.9E-06	1.26E-05	103037	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006986	3.92	4.50	21.10	9/15/2017	Oakton	-0.58	1.2E-04	3.16E-05	-11286	
D00007179	4.33	2.84	19.90	9/15/2017	Oakton	1.49	4.7E-05	1.45E-03	715	
D00007206	5.16	2.97	19.60	9/15/2017	Oakton	2.19	6.9E-06	1.07E-03	939	
D00007293	4.92	3.27	19.40	9/15/2017	Oakton	1.65	1.2E-05	5.37E-04	1905	2 DROPS
D00007335	5.28	3.57	19.30	9/15/2017	Oakton	1.71	5.2E-06	2.69E-04	3789	3DROPS
D00007384	5.08	3.06	19.20	9/15/2017	Oakton	2.02	8.3E-06	8.71E-04	1159	2 DROPS
D00007395	6.72	2.95	19.20	9/15/2017	Oakton	3.77	1.9E-07	1.12E-03	891	
D00007408	6.87	4.47	19.20	9/15/2017	Oakton	2.40	1.3E-07	3.39E-05	29630	
D00007409	4.14	4.74	19.30	9/15/2017	Oakton	-0.60	7.2E-05	1.82E-05	-18434	
D00007410	4.84	2.97	19.20	9/15/2017	Oakton	1.87	1.4E-05	1.07E-03	946	
D00007411	4.58	3.15	19.20	9/15/2017	Oakton	1.43	2.6E-05	7.08E-04	1467	
D00007412	5.19	2.62	19.30	9/15/2017	Oakton	2.57	6.5E-06	2.40E-03	418	
D00007413	3.91	4.09	19.20	9/15/2017	Oakton	-0.18	1.2E-04	8.13E-05	-23956	
D00007414	4.71	2.86	19.00	9/15/2017	Oakton	1.85	1.9E-05	1.38E-03	735	
D00007415	3.93	3.06	18.90	9/15/2017	Oakton	0.87	1.2E-04	8.71E-04	1327	
D00007495	8.45	3.01	18.70	9/15/2017	Oakton	5.44	3.5E-09	9.77E-04	1023	
_GravelPitSTD	6.38	4.83	18.7	9/15/2017	Oakton	1.55	4.2E-07	1.48E-05	69569	
D00004697				9/15/2017						
D00004698	6.52	3.94	15.60	9/15/2017	PT2.2	2.58	3.0E-07	1.15E-04	8733	
D00004699	6.21	4.54	16.40	9/15/2017	PT2.2	1.67	6.2E-07	2.88E-05	35431	
D00004700	6.43	4.68	14.70	9/15/2017	PT2.2	1.75	3.7E-07	2.09E-05	48730	
D00004853	5.84	2.74	14.60	9/15/2017	PT2.2	3.10	1.4E-06	1.82E-03	550	
D00004867	5.11	4.06	15.60	9/15/2017	PT2.2	1.05	7.8E-06	8.71E-05	12605	
D00004871	6.18	4.49	15.30	9/15/2017	PT2.2	1.69	6.6E-07	3.24E-05	31547	
D00006163	6.24	3.58	15.50	9/15/2017	PT2.2	2.66	5.8E-07	2.63E-04	3810	
D00006168	6.02	3.46	15.70	9/15/2017	PT2.2	2.56	9.5E-07	3.47E-04	2892	
D00006169	5.57	3.71	16.00	9/15/2017	PT2.2	1.86	2.7E-06	1.95E-04	5200	
D00006170	5.50	3.65	19.50	9/15/2017	PT2.2	1.85	3.2E-06	2.24E-04	4531	2 DROPS
D00006171	5.10	4.20	20.40	9/15/2017	PT2.2	0.90	7.9E-06	6.31E-05	18132	UNKNOWN ACID
D00006172	4.90	2.45	20.50	9/15/2017	PT2.2	2.45	1.3E-05	3.55E-03	283	
D00006173	4.90	2.43	20.70	9/15/2017	PT2.2	2.47	1.3E-05	3.72E-03	270	
D00006174	4.87	2.40	20.80	9/15/2017	PT2.2	2.47	1.3E-05	3.98E-03	252	
D00006175	4.62	2.54	20.80	9/15/2017	PT2.2	2.08	2.4E-05	2.88E-03	350	
D00006176	5.27	2.44	19.00	9/15/2017	PT2.2	2.83	5.4E-06	3.63E-03	276	
D00006219	4.42	3.30	19.20	9/15/2017	PT2.2	1.12	3.8E-05	5.01E-04	2159	
D00006246	4.59	2.55	18.70	9/15/2017	PT2.2	2.04	2.6E-05	2.82E-03	358	KNOCKED OVER , UNKNOWN ACID
D00006255	4.46	2.44	19.10	9/15/2017	PT2.2	2.02	3.5E-05	3.63E-03	278	UNKNOWN ACID
D00006299	4.78	2.80	18.40	9/15/2017	PT2.2	1.98	1.7E-05	1.58E-03	638	
D00006384	4.26	2.19	16.50	9/15/2017	PT2.2	2.07	5.5E-05	6.46E-03	156	
D00006395	4.47	2.67	16.60	9/15/2017	PT2.2	1.80	3.4E-05	2.14E-03	475	
D00006429	4.06	2.25	16.60	9/15/2017	PT2.2	1.81	8.7E-05	5.62E-03	181	
D00006581	5.69	4.60	17.10	9/15/2017	PT2.2	1.09	2.0E-06	2.51E-05	43333	
D00006737	5.07	2.60	17.00	9/15/2017	PT2.2	2.47	8.5E-06	2.51E-03	399	
D00006853	5.55	5.22	16.80	9/15/2017	PT2.2	0.33	2.8E-06	6.03E-06	311797	
D00006935	5.77	4.15	16.50	9/15/2017	PT2.2	1.62	1.7E-06	7.08E-05	14473	
D00006953	5.08	2.77	16.50	9/15/2017	PT2.2	2.31	8.3E-06	1.70E-03	592	
D00006987	4.92	2.92	16.80	9/15/2017	PT2.2	2.00	1.2E-05	1.20E-03	840	
D00006988	5.21	3.28	16.90	9/15/2017	PT2.2	1.93	6.2E-06	5.25E-04	1928	
D00006989	5.42	4.06	17.40	9/15/2017	PT2.2	1.36	3.8E-06	8.71E-05	12006	
D00006990				9/15/2017	PT2.2					
D00006991	5.81	4.55	17.30	9/15/2017	PT2.2	1.26	1.5E-06	2.82E-05	37545	
_GravelPitSTD	5.91	4.02	17.7	9/15/2017	PT2.2	1.89	1.2E-06	9.55E-05	10608	MISSING
D00006992	5.89	3.89	17.40	9/15/2017	PT2.2	2.00	1.3E-06	1.29E-04	7841	
D00006993	4.82	3.06	17.30	9/15/2017	PT2.2	1.76	1.5E-05	8.71E-04	1168	
D00006994	5.11	3.73	17.60	9/15/2017	PT2.2	1.38	7.8E-06	1.86E-04	5604	
D00007178	4.21	2.98	17.80	9/15/2017	PT2.2	1.23	6.2E-05	1.05E-03	1015	
D00007205	4.56	2.42	17.40	9/15/2017	PT2.2	2.14	2.8E-05	3.80E-03	265	
D00007292	4.56	2.73	18.00	9/15/2017	PT2.2	1.83	2.8E-05	1.86E-03	545	
D00007385	5.06	3.19	17.90	9/15/2017	PT2.2	1.87	8.7E-06	6.46E-04	1570	
D00007394	5.32	3.80	18.10	9/15/2017	PT2.2	1.52	4.8E-06	1.58E-04	6506	
D00007396	5.59	3.34	18.20	9/15/2017	PT2.2	2.25	2.6E-06	4.57E-04	2200	
D00007416	4.97	2.57	18.00	9/15/2017	PT2.2	2.40	1.1E-05	2.69E-03	373	
D00007496	4.43	2.82	18.10	9/15/2017	PT2.2	1.61	3.7E-05	1.51E-03	677	
D00004775	5.49	4.49	18.30	9/15/2017	Oakton	1.00	3.2E-06	3.24E-05	34337	
D00004782	5.14			9/15/2017	Oakton					
D00004783	7.43			9/15/2017	Oakton					
D00004877	4.67	3.01	18.60	9/15/2017	Oakton	1.66	2.1E-05	9.77E-04	1046	Missing Samples
D00006215	4.38	2.92	18.70	9/15/2017	Oakton	1.46	4.2E-05	1.20E-03	862	Missing Samples

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006242	4.73	3.06	18.80	9/15/2017	Oakton	1.67	1.9E-05	8.71E-04	1173	
D00006251	4.42	3.36	18.90	9/15/2017	Oakton	1.06	3.8E-05	4.37E-04	2509	
D00006379		5.26	10.60	9/15/2017	Oakton					
D00006391	4.55	3.11	10.90	9/15/2017	Oakton	1.44	2.8E-05	7.76E-04	1337	
D00006425	4.03	2.95	11.20	9/15/2017	Oakton	1.08	9.3E-05	1.12E-03	972	stuck on hold
D00006568	5.67	3.57	11.60	9/15/2017	Oakton	2.10	2.1E-06	2.69E-04	3745	
D00006569	5.75	4.51	12.70	9/15/2017	Oakton	1.24	1.8E-06	3.09E-05	34335	
D00006570	4.64	2.96	13.40	9/15/2017	Oakton	1.68	2.3E-05	1.10E-03	931	
D00006571	4.91	2.97	14.10	9/15/2017	Oakton	1.94	1.2E-05	1.07E-03	944	
D00006781	4.25	2.97	15.50	9/15/2017	Oakton	1.28	5.6E-05	1.07E-03	985	
D00006783	4.02	2.91	16.40	9/15/2017	Oakton	1.11	9.5E-05	1.23E-03	881	
D00006785	5.00	3.98	16.70	9/15/2017	Oakton	1.02	1.0E-05	1.05E-04	10558	
D00006787	4.46	2.85	16.50	9/15/2017	Oakton	1.61	3.5E-05	1.41E-03	726	
D00006789	4.07	3.03	17.70	9/15/2017	Oakton	1.04	8.5E-05	9.33E-04	1179	
D00006849	5.45	3.39	17.40	9/15/2017	Oakton	2.06	3.5E-06	4.07E-04	2476	
D00006939	5.08	3.43	18.30	9/15/2017	Oakton	1.65	8.3E-06	3.72E-04	2753	
D00006940	3.89	2.56	17.10	9/15/2017	Oakton	1.33	1.3E-04	2.75E-03	381	
D00006949	5.68	4.14	19.60	9/15/2017	Oakton	1.54	2.1E-06	7.24E-05	14214	
D00007174	4.79	3.30	19.30	9/15/2017	Oakton	1.49	1.6E-05	5.01E-04	2062	
D00007201	6.83	5.16	18.80	9/15/2017	Oakton	1.67	1.5E-07	6.92E-06	147702	
D00007274	5.40	3.25	19.80	9/15/2017	Oakton	2.15	4.0E-06	5.62E-04	1791	
D00007275	5.09	3.21	19.70	9/15/2017	Oakton	1.88	8.1E-06	6.17E-04	1643	
D00007276	7.75	4.54	19.80	9/15/2017	Oakton	3.21	1.8E-08	2.88E-05	34695	
D00007277	7.55	3.36	19.90	9/15/2017	Oakton	4.19	2.8E-08	4.37E-04	2291	
D00007278	5.02	3.53	19.90	9/15/2017	Oakton	1.49	9.5E-06	2.95E-04	3502	
D00007279	5.24	3.35	19.90	9/15/2017	Oakton	1.89	5.8E-06	4.47E-04	2268	
D00007280	4.70	3.06	19.80	9/15/2017	Oakton	1.64	2.0E-05	8.71E-04	1175	
D00007281	4.82	3.20	19.90	9/15/2017	Oakton	1.62	1.5E-05	6.31E-04	1624	
D00007282	4.37	3.15	19.90	9/15/2017	Oakton	1.22	4.3E-05	7.08E-04	1503	
D00007283	4.65	2.86	19.80	9/15/2017	Oakton	1.79	2.2E-05	1.38E-03	736	
D00007284	4.89	3.34	19.70	9/15/2017	Oakton	1.55	1.3E-05	4.57E-04	2251	
D00007285	4.82	3.20	19.70	9/15/2017	Oakton	1.62	1.5E-05	6.31E-04	1624	
D00007286	5.15	3.09	19.30	9/15/2017	Oakton	2.06	7.1E-06	8.13E-04	1241	
D00007287	5.34	3.07	19.30	9/15/2017	Oakton	2.27	4.6E-06	8.51E-04	1181	
D00007288	5.12	3.83	19.20	9/15/2017	Oakton	1.29	7.6E-06	1.48E-04	7126	
D00007289	4.37	3.37	18.60	9/15/2017	Oakton	1.00	4.3E-05	4.27E-04	2605	
D00007389	4.50	3.20	19.70	9/15/2017	Oakton	1.30	3.2E-05	6.31E-04	1669	
_GravelPitSTD	8.34	4.72	19.7	9/15/2017	Oakton	3.62	4.6E-09	1.91E-05	52493	
D00006649	5.67	3.67	16.30	9/15/2017	Oakton	2.00	2.1E-06	2.14E-04	4725	
D00006650	5.51	3.43	16.20	9/15/2017	Oakton	2.08	3.1E-06	3.72E-04	2714	
D00006676	5.44	2.74	15.70	9/15/2017	Oakton	2.70	3.6E-06	1.82E-03	551	
GravelPitSTD	8.55	3.1	18	9/15/2017	Oakton	5.44	2.8E-09	7.76E-04	1288	
D00006677	5.05	2.77	16.00	9/15/2017	Oakton	2.28	8.9E-06	1.70E-03	592	
D00006678	5.38	2.76	17.00	9/15/2017	Oakton	2.62	4.2E-06	1.74E-03	577	
D00006679	5.78	2.90	16.80	9/15/2017	Oakton	2.88	1.7E-06	1.26E-03	795	
D00006680	5.33	3.38	17.10	9/15/2017	Oakton	1.95	4.7E-06	4.17E-04	2426	
D00006681	5.26	2.80	18.90	9/15/2017	Oakton	2.46	5.5E-06	1.58E-03	633	
D00006682	6.80	3.37	18.10	9/15/2017	Oakton	3.43	1.6E-07	4.27E-04	2345	
D00006779	4.20	3.37	18.70	9/15/2017	Oakton	0.83	6.3E-05	4.27E-04	2751	
D00006780	4.18	3.16	19.20	9/15/2017	Oakton	1.02	6.6E-05	6.92E-04	1598	
D00006848	4.50	3.76	18.90	9/15/2017	Oakton	0.74	3.2E-05	1.74E-04	7034	
D00006941	5.53	4.47	19.20	9/15/2017	Oakton	1.06	3.0E-06	3.39E-05	32328	See September 18th
D00006948	5.86	4.35	19.40	9/15/2017	Oakton	1.51	1.4E-06	4.47E-05	23101	
D00007143	5.15	3.39	19.40	9/15/2017	Oakton	1.76	7.1E-06	4.07E-04	2498	
D00007173	4.83	2.99	19.30	9/15/2017	Oakton	1.84	1.5E-05	1.02E-03	992	
D00007200	6.14	4.97	19.70	9/15/2017	Oakton	1.17	7.2E-07	1.07E-05	100093	
D00007273	4.05	3.58	19.70	9/15/2017	Oakton	0.47	8.9E-05	2.63E-04	5750	
D00007390	4.74	3.44	19.90	9/15/2017	Oakton	1.30	1.8E-05	3.63E-04	2900	
D00007989	6.86	4.90	20.00	9/15/2017	Oakton	1.96	1.4E-07	1.26E-05	80313	
_InstruCAL	-	-	-	9/16/2017	PT2.2	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD		-		9/16/2017	PT2.2	####	1.0E+00	#VALUE!	#VALUE!	
_pH7STD		-		9/16/2017	PT2.2	####	1.0E+00	#VALUE!	#VALUE!	
_pH10STD		-		9/16/2017	PT2.2	####	1.0E+00	#VALUE!	#VALUE!	
_InstruCAL	-	-	-	9/16/2017	Oakton	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	3.92	-	27.20	9/16/2017	Oakton	####	1.2E-04	#VALUE!	#VALUE!	
_pH7STD	6.43	-	28.40	9/16/2017	Oakton	####	3.7E-07	#VALUE!	#VALUE!	
_pH10STD	39.20	-	27.20	9/16/2017	Oakton	####	6.3E-40	#VALUE!	#VALUE!	
D00006114	4.60	3.15	18.40	9/16/2017	Oakton	1.45	2.5E-05	7.08E-04	1464	
D00006141	5.37	2.56	18.30	9/16/2017	Oakton	2.81	4.3E-06	2.75E-03	364	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006235	5.76	4.36	18.30	9/16/2017	Oakton	1.40	1.7E-06	4.37E-05	23859	
D00006271	5.13	2.91	16.70	9/16/2017	Oakton	2.22	7.4E-06	1.23E-03	818	
D00006445	5.69	4.66	16.80	9/16/2017	Oakton	1.03	2.0E-06	2.19E-05	50414	
D00006447	5.18	2.70	16.70	9/16/2017	Oakton	2.48	6.6E-06	2.00E-03	503	
D00006462	5.56	3.18	16.60	9/16/2017	Oakton	2.38	2.8E-06	6.61E-04	1520	
D00006596	6.21	3.35	16.70	9/16/2017	Oakton	2.86	6.2E-07	4.47E-04	2242	
D00006662	4.50	2.94	16.90	9/16/2017	Oakton	1.56	3.2E-05	1.15E-03	896	
D00006672	6.43	5.22	17.10	9/16/2017	Oakton	1.21	3.7E-07	6.03E-06	176864	
D00006753	4.40	2.87	17.20	9/16/2017	Oakton	1.53	4.0E-05	1.35E-03	764	
D00006804				9/16/2017	Oakton					
D00007194	4.46	3.16	17.40	9/16/2017	Oakton	1.30	3.5E-05	6.92E-04	1522	
D00007223	6.30	5.06	17.60	9/16/2017	Oakton	1.24	5.0E-07	8.71E-06	121826	
D00007308		2.80	17.90	9/16/2017	Oakton					ACID
D00007350	4.89	2.95	17.60	9/16/2017	Oakton	1.94	1.3E-05	1.12E-03	902	
D00007376	4.86	2.88	18.10	9/16/2017	Oakton	1.98	1.4E-05	1.32E-03	767	
D00007466	7.17	3.90	18.10	9/16/2017	Oakton	3.27	6.8E-08	1.26E-04	7948	
D00007470	5.35	4.36	18.60	9/16/2017	Oakton	0.99	4.5E-06	4.37E-05	25520	
D00007477	7.34	5.59	18.60	9/16/2017	Oakton	1.75	4.6E-08	2.57E-06	396089	
D00007563	6.60	4.76	18.60	9/16/2017	Oakton	1.84	2.5E-07	1.74E-05	58388	
D00007583	4.68	2.56	18.60	9/16/2017	Oakton	2.12	2.1E-05	2.75E-03	366	2 DROPS
D00007587	4.81	3.40	18.80	9/16/2017	Oakton	1.41	1.5E-05	3.98E-04	2614	
D00007639	4.91	4.05	18.90	9/16/2017	Oakton	0.86	1.2E-05	8.91E-05	13017	
D00007640	4.77	3.42	19.10	9/16/2017	Oakton	1.35	1.7E-05	3.80E-04	2753	
D00007644	4.60	3.46	19.00	9/16/2017	Oakton	1.14	2.5E-05	3.47E-04	3109	
_GravelPitSTD	8.14	4.60	19.80	9/16/2017	Oakton	3.54	7.2E-09	2.51E-05	39822	
D00007651	6.00	4.53	18.90	9/16/2017	Oakton	1.47	1.0E-06	2.95E-05	35073	
D00007652	4.75	3.99	19.10	9/16/2017	Oakton	0.76	1.8E-05	1.02E-04	11828	
D00007653	5.55	3.65	19.00	9/16/2017	Oakton	1.90	2.8E-06	2.24E-04	4524	3 DROPS
D00007654	5.18	3.90	19.30	9/16/2017	Oakton	1.28	6.6E-06	1.26E-04	8383	
D00007655	7.45	5.02	19.40	9/16/2017	Oakton	2.43	3.5E-08	9.55E-06	105103	
D00007656	5.22	3.41	19.60	9/16/2017	Oakton	1.81	6.0E-06	3.89E-04	2611	
B00292546	6.44	5.44	20.40	8/26-9/1	PT2.1	1.00	3.6E-07	3.63E-06	306025	
B00292567	5.24	2.91	20.20	8/26-9/1	PT2.1	2.33	5.8E-06	1.23E-03	817	
B00292585	5.05	2.65	20.60	8/26-9/1	PT2.1	2.40	8.9E-06	2.24E-03	448	
B00292588	5.19	4.04	20.50	8/26-9/1	PT2.1	1.15	6.5E-06	9.12E-05	11800	
B00292599	4.54	3.01	21.90	8/26-9/1	PT2.1	1.53	2.9E-05	9.77E-04	1054	
D00004954	5.68	5.21	17.60	9/16/2017	PT2.2	0.47	2.1E-06	6.17E-06	245299	
D00004955	5.45	4.09	17.70	9/16/2017	PT2.2	1.36	3.5E-06	8.13E-05	12864	
D00004956	5.48	4.23	17.50	9/16/2017	PT2.2	1.25	3.3E-06	5.89E-05	17994	
D00006110	5.40	4.75	17.90	9/16/2017	PT2.2	0.65	4.0E-06	1.78E-05	72455	
D00006145	5.85	4.69	17.40	9/16/2017	PT2.2	1.16	1.4E-06	2.04E-05	52618	
D00006231	4.46	3.32	16.90	9/16/2017	PT2.2	1.14	3.5E-05	4.79E-04	2252	
D00006267	5.68	3.41	16.70	9/16/2017	PT2.2	2.27	2.1E-06	3.89E-04	2584	
D00006329	4.80	3.87	16.80	9/16/2017	PT2.2	0.93	1.6E-05	1.35E-04	8400	
D00006339	5.65	4.80	16.80	9/16/2017	PT2.2	0.85	2.2E-06	1.58E-05	73474	
D00006340	5.74	4.21	16.30	9/16/2017	PT2.2	1.53	1.8E-06	6.17E-05	16711	
D00006441	5.73	5.56	17.40	9/16/2017	PT2.2	0.17	1.9E-06	2.75E-06	1120898	
D00006456	6.15	5.09	16.10	9/16/2017	PT2.2	1.06	7.1E-07	8.13E-06	134764	
D00006466	6.04	5.07	16.50	9/16/2017	PT2.2	0.97	9.1E-07	8.51E-06	131590	
D00006592	5.67	4.86	15.70	9/16/2017	PT2.2	0.81	2.1E-06	1.38E-05	85720	
D00006657	6.07	5.41	15.60	9/16/2017	PT2.2	0.66	8.5E-07	3.89E-06	329022	
D00006749	4.67	3.47	15.20	9/16/2017	PT2.2	1.20	2.1E-05	3.39E-04	3150	
D00006799	5.35	4.39	15.40	9/16/2017	PT2.2	0.96	4.5E-06	4.07E-05	27570	
D00006816	4.76	3.26	15.40	9/16/2017	PT2.2	1.50	1.7E-05	5.50E-04	1879	
D00006959	5.78	4.47	15.40	9/16/2017	PT2.2	1.31	1.7E-06	3.39E-05	31032	
_GravelPitSTD	5.97	4.79	15.20	9/16/2017	PT2.2	1.18	1.1E-06	1.62E-05	66021	
D00007190	5.39	4.25	15.80	9/16/2017	PT2.2	1.14	4.1E-06	5.62E-05	19172	
D00007227	5.86	4.83	15.50	9/16/2017	PT2.2	1.03	1.4E-06	1.48E-05	74567	
D00007304	6.08	3.87	15.40	9/16/2017	PT2.2	2.21	8.3E-07	1.35E-04	7459	
D00007346	4.56	2.86	15.60	9/16/2017	PT2.2	1.70	2.8E-05	1.38E-03	739	
D00007381	5.76	4.72	15.90	9/16/2017	PT2.2	1.04	1.7E-06	1.91E-05	57747	
D00007485	5.39	2.85	15.70	9/16/2017	PT2.2	2.54	4.1E-06	1.41E-03	710	
D00007567	5.10	2.59	16.00	9/16/2017	PT2.2	2.51	7.9E-06	2.57E-03	390	
D00007578	4.45	2.60	15.90	9/16/2017	PT2.2	1.85	3.5E-05	2.51E-03	404	
D00007591	5.49	3.37	15.70	9/16/2017	PT2.2	2.12	3.2E-06	4.27E-04	2362	
D00007616	4.57	3.29	15.90	9/16/2017	PT2.2	1.28	2.7E-05	5.13E-04	2058	
D00007617	5.06	3.95	15.90	9/16/2017	PT2.2	1.11	8.7E-06	1.12E-04	9663	
D00007618	4.88	3.67	16.20	9/16/2017	PT2.2	1.21	1.3E-05	2.14E-04	4985	
D00007619	5.78	5.08	16.10	9/16/2017	PT2.2	0.70	1.7E-06	8.32E-06	150194	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007620	5.04	4.08	16.60	9/16/2017	PT2.2	0.96	9.1E-06	8.32E-05	13503	
D00007621	5.18	3.98	16.30	9/16/2017	PT2.2	1.20	6.6E-06	1.05E-04	10193	
D00007622	5.26	4.38	16.00	9/16/2017	PT2.2	0.88	5.5E-06	4.17E-05	27631	
D00004961	4.42	2.84	25.60	9/16/2017	Oakton	1.58	3.8E-05	1.45E-03	711	
D00004976	5.47	4.21	24.80	9/16/2017	Oakton	1.26	3.4E-06	6.17E-05	17161	
D00004985	6.24	5.52	24.90	9/16/2017	Oakton	0.72	5.8E-07	3.02E-06	409080	
D00004991	5.46	3.65	19.60	9/16/2017	Oakton	1.81	3.5E-06	2.24E-04	4537	
D00004995	5.24	4.22	19.80	9/16/2017	Oakton	1.02	5.8E-06	6.03E-05	18348	
D00006105	4.52	2.66	19.40	9/16/2017	Oakton	1.86	3.0E-05	2.19E-03	463	
D00006226	6.28	5.22	19.40	9/16/2017	Oakton	1.06	5.2E-07	6.03E-06	181792	
D00006262		2.40	18.40	9/16/2017	Oakton					missed 1st ph
D00006334	6.13	3.87	18.30	9/16/2017	Oakton	2.26	7.4E-07	1.35E-04	7454	
D00006345	6.18	4.98	18.40	9/16/2017	Oakton	1.20	6.6E-07	1.05E-05	101931	3 drps
D00006349	6.14	4.99	18.30	9/16/2017	Oakton	1.15	7.2E-07	1.02E-05	105169	
D00006435	4.55	3.44	18.30	9/16/2017	Oakton	1.11	2.8E-05	3.63E-04	2986	
D00006455	6.25	5.53	18.70	9/16/2017	Oakton	0.72	5.6E-07	2.95E-06	418608	
D00006587	7.16	4.78	19.10	9/16/2017	Oakton	2.38	6.9E-08	1.66E-05	60508	
D00006652	5.93	4.90	18.90	9/16/2017	Oakton	1.03	1.2E-06	1.26E-05	87609	
D00006744	5.52	4.43	19.00	9/16/2017	Oakton	1.09	3.0E-06	3.72E-05	29297	
D00006794	6.11	4.04	18.60	9/16/2017	Oakton	2.07	7.8E-07	9.12E-05	11059	
D00006822	4.95	3.46	18.80	9/16/2017	Oakton	1.49	1.1E-05	3.47E-04	2980	
D00006833	4.18	2.44	19.10	9/16/2017	Oakton	1.74	6.6E-05	3.63E-03	281	
D00006837	6.06	4.86	19.60	9/16/2017	Oakton	1.20	8.7E-07	1.38E-05	77322	
D00006859				9/16/2017	Oakton					spilled
D00006860	7.00	5.67	18.90	9/16/2017	Oakton	1.33	1.0E-07	2.14E-06	490686	
_GravelPitSTD	8.30	5.04	19.70	9/16/2017	Oakton	3.26	5.0E-09	9.12E-06	109708	
D00006875	7.12	4.43	19.10	9/16/2017	Oakton	2.69	7.6E-08	3.72E-05	26970	
D00006878	7.01	5.03	19.20	9/16/2017	Oakton	1.98	9.8E-08	9.33E-06	108286	
D00006879	5.55	4.24	18.90	9/16/2017	Oakton	1.31	2.8E-06	5.75E-05	18273	
D00006880	6.35	4.88	19.90	9/16/2017	Oakton	1.47	4.5E-07	1.32E-05	78518	
D00006881	6.42	5.05	19.80	9/16/2017	Oakton	1.37	3.8E-07	8.91E-06	117201	
D00006882	6.24	4.27	19.30	9/16/2017	Oakton	1.97	5.8E-07	5.37E-05	18823	
D00006883	6.10	3.74	19.40	9/16/2017	Oakton	2.36	7.9E-07	1.82E-04	5520	
D00006884	4.73	3.28	19.40	9/16/2017	Oakton	1.45	1.9E-05	5.25E-04	1976	
D00006885	6.55	4.51	19.60	9/16/2017	Oakton	2.04	2.8E-07	3.09E-05	32657	
D00006886	7.18	5.33	19.60	9/16/2017	Oakton	1.85	6.6E-08	4.68E-06	216859	
D00006895	6.22	4.45	19.80	9/16/2017	Oakton	1.77	6.0E-07	3.55E-05	28671	
D00006896	5.31	3.81	20.10	9/16/2017	Oakton	1.50	4.9E-06	1.55E-04	6667	
D00006897	6.95	5.31	20.20	9/16/2017	Oakton	1.64	1.1E-07	4.90E-06	208961	
D00006899	7.03	4.98	20.30	9/16/2017	Oakton	2.05	9.3E-08	1.05E-05	96358	
D00006900	7.00	5.34	20.40	9/16/2017	Oakton	1.66	1.0E-07	4.57E-06	223670	See September 18th
D00006929	5.29	3.71	20.10	9/16/2017	Oakton	1.58	5.1E-06	1.95E-04	5267	
D00006998	4.67	3.25	19.90	9/16/2017	Oakton	1.42	2.1E-05	5.62E-04	1849	
D00007185	4.93	3.57	19.20	9/16/2017	Oakton	1.36	1.2E-05	2.69E-04	3885	
D00007211	5.82	4.26	19.10	9/16/2017	Oakton	1.56	1.5E-06	5.50E-05	18712	
D00007232	5.46	2.89	19.20	9/16/2017	Oakton	2.57	3.5E-06	1.29E-03	778	
D00007298	4.33	3.17	19.20	9/16/2017	Oakton	1.16	4.7E-05	6.76E-04	1589	
D00007341	4.97	2.75	18.90	9/16/2017	Oakton	2.22	1.1E-05	1.78E-03	566	
D00007490	4.47	2.95	18.60	9/16/2017	Oakton	1.52	3.4E-05	1.12E-03	919	
D00004601	6.47	5.92	2.10	9/16/2017	PT2.2	0.55	3.4E-07	1.20E-06	1158185	
D00004602	6.52	5.18	20.60	9/16/2017	PT2.2	1.34	3.0E-07	6.61E-06	158606	
D00004962	5.75	3.89	20.40	9/16/2017	PT2.2	1.86	1.8E-06	1.29E-04	7871	
D00004975	5.52	4.44	20.50	9/16/2017	PT2.2	1.08	3.0E-06	3.63E-05	30041	
D00004986	5.64	5.25	19.30	9/16/2017	PT2.2	0.39	2.3E-06	5.62E-06	300071	
D00004990	5.38	4.22	19.50	9/16/2017	PT2.2	1.16	4.2E-06	6.03E-05	17829	
D00004996	5.39	3.41	15.90	9/16/2017	PT2.2	1.98	4.1E-06	3.89E-04	2598	
D00006104	4.45	3.03	15.90	9/16/2017	PT2.2	1.42	3.5E-05	9.33E-04	1114	
D00006225	4.26	2.78	16.20	9/16/2017	PT2.2	1.48	5.5E-05	1.66E-03	623	
D00006261	4.23	2.73	16.00	9/16/2017	PT2.2	1.50	5.9E-05	1.86E-03	555	
D00006346	5.42	4.82	16.50	9/16/2017	PT2.2	0.60	3.8E-06	1.51E-05	88232	
D00006348	5.78	4.61	16.40	9/16/2017	PT2.2	1.17	1.7E-06	2.45E-05	43692	
D00006434	4.45	3.28	16.30	9/16/2017	PT2.2	1.17	3.5E-05	5.25E-04	2044	
D00006454	5.84	5.27	15.70	9/16/2017	PT2.2	0.57	1.4E-06	5.37E-06	254785	
D00006586	6.08	4.59	15.30	9/16/2017	PT2.2	1.49	8.3E-07	2.57E-05	40206	
D00006651	6.07	4.42	15.30	9/16/2017	PT2.2	1.65	8.5E-07	3.80E-05	26905	
D00006743	4.58	2.70	15.40	9/16/2017	PT2.2	1.88	2.6E-05	2.00E-03	508	
D00006793	5.04	3.99	16.00	9/16/2017	PT2.2	1.05	9.1E-06	1.02E-04	10729	
D00006827	5.04	3.11	15.40	9/16/2017	PT2.2	1.93	9.1E-06	7.76E-04	1304	
D00006832	5.50	3.89	15.50	9/16/2017	PT2.2	1.61	3.2E-06	1.29E-04	7958	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00006838	6.01	4.66	15.60	9/16/2017	PT2.2	1.35	9.8E-07	2.19E-05	47846	
D00006858	5.85	3.93	15.00	9/16/2017	PT2.2	1.92	1.4E-06	1.17E-04	8615	
D00006930	5.81	4.43	15.00	9/16/2017	PT2.2	1.38	1.5E-06	3.72E-05	28086	
D00006958	5.95	5.15	15.80	9/16/2017	PT2.2	0.80	1.1E-06	7.08E-06	167857	1.5 DROPS
D00006963	5.12	3.36	15.50	9/16/2017	PT2.2	1.76	7.6E-06	4.37E-04	2331	
D00006964	5.14	4.05	15.60	9/16/2017	PT2.2	1.09	7.2E-06	8.91E-05	12213	
D00006965	5.24	2.78	15.80	9/16/2017	PT2.2	2.46	5.8E-06	1.66E-03	605	
D00006966	4.82	2.80	15.70	9/16/2017	PT2.2	2.02	1.5E-05	1.58E-03	637	
D00006967	4.03	3.38	17.30	9/16/2017	PT2.2	0.65	9.3E-05	4.17E-04	3091	
D00006968	4.72	2.94	17.70	9/16/2017	PT2.2	1.78	1.9E-05	1.15E-03	886	
D00006969	5.56	3.20	17.70	9/16/2017	PT2.2	2.36	2.8E-06	6.31E-04	1592	
D00006976	4.64	3.12	17.70	9/16/2017	PT2.2	1.52	2.3E-05	7.59E-04	1359	
D00006977	5.77	4.85	16.90	9/16/2017	PT2.2	0.92	1.7E-06	1.41E-05	80469	
D00006997	5.29	3.72	17.00	9/16/2017	PT2.2	1.57	5.1E-06	1.91E-04	5393	
D00006999	5.09	3.66	17.00	9/16/2017	PT2.2	1.43	8.1E-06	2.19E-04	4747	
D00007184	4.08	3.19	17.10	9/16/2017	PT2.2	0.89	8.3E-05	6.46E-04	1778	
D00007210	5.30	3.90	17.10	9/16/2017	PT2.2	1.40	5.0E-06	1.26E-04	8273	
D00007297	5.08	2.99	17.10	9/16/2017	PT2.2	2.09	8.3E-06	1.02E-03	985	
D00007339	4.99	3.73	16.90	9/16/2017	PT2.2	1.26	1.0E-05	1.86E-04	5683	
D00007491	4.66	3.44	17.20	9/16/2017	PT2.2	1.22	2.2E-05	3.63E-04	2931	
_InstruCAL	-	-	-	9/17/2017	PT2.2	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD	3.99	-	21.0	9/17/2017	PT2.2	####	1.0E-04	#VALUE!	#VALUE!	
_pH7STD	7.01	-	21.6	9/17/2017	PT2.2	####	9.8E-08	#VALUE!	#VALUE!	
_pH10STD	10.02	-	21.6	9/17/2017	PT2.2	####	9.5E-11	#VALUE!	#VALUE!	
_InstruCAL	-	-	-	9/17/2017	Oakton	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD		-		9/17/2017	Oakton	####	1.0E+00	#VALUE!	#VALUE!	
_pH7STD		-		9/17/2017	Oakton	####	1.0E+00	#VALUE!	#VALUE!	
_pH10STD		-		9/17/2017	Oakton	####	1.0E+00	#VALUE!	#VALUE!	
D00004609	4.98	3.25	22.10	9/17/2017	Oakton	1.73	1.0E-05	5.62E-04	1812	
D00004612	5.82	3.11	22.80	9/17/2017	Oakton	2.71	1.5E-06	7.76E-04	1291	3 drops of acid
D00004615	6.88	5.55	22.70	9/17/2017	Oakton	1.33	1.3E-07	2.82E-06	372224	
D00004653	4.68	3.93	22.70	9/17/2017	Oakton	0.75	2.1E-05	1.17E-04	10352	
D00004655	4.63	2.89	22.50	9/17/2017	Oakton	1.74	2.3E-05	1.29E-03	791	
D00004663	5.66	3.90	22.40	9/17/2017	Oakton	1.76	2.2E-06	1.26E-04	8084	
D00006291	5.64	3.83	22.70	9/17/2017	Oakton	1.81	2.3E-06	1.48E-04	6867	
D00007325	4.06	2.89	22.60	9/17/2017	Oakton	1.17	8.7E-05	1.29E-03	833	
D00007326	6.53	4.36	22.90	9/17/2017	Oakton	2.17	3.0E-07	4.37E-05	23065	
D00007327	6.47	4.49	22.70	9/17/2017	Oakton	1.98	3.4E-07	3.24E-05	31230	
D00007328	6.74	4.56	22.70	9/17/2017	Oakton	2.18	1.8E-07	2.75E-05	36549	
D00007329	4.64	3.55	22.70	9/17/2017	Oakton	1.09	2.3E-05	2.82E-04	3862	
_GravelPitSTD	8.41	4.76	22.2	9/17/2017	Oakton	3.65	3.9E-09	1.74E-05	57557	2 DROPS ACID
D00007330	5.36	4.51	22.90	9/17/2017	Oakton	0.85	4.4E-06	3.09E-05	37682	
D00007331	4.30	3.05	22.90	9/17/2017	Oakton	1.25	5.0E-05	8.91E-04	1189	3 drops of acid
D00007332	4.93	3.85	23.00	9/17/2017	Oakton	1.08	1.2E-05	1.41E-04	7722	
D00007456	6.41	5.58	20.70	9/17/2017	Oakton	0.83	3.9E-07	2.63E-06	446185	
D00007516	4.62	2.75	22.10	9/17/2017	Oakton	1.87	2.4E-05	1.78E-03	570	
D00004666	5.98	4.64	19.70	9/17/2017	PT2.2	1.34	1.0E-06	2.29E-05	45742	
D00004672	4.85	3.46	19.80	9/17/2017	PT2.2	1.39	1.4E-05	3.47E-04	3007	
D00004673	4.85	3.73	19.30	9/17/2017	PT2.2	1.12	1.4E-05	1.86E-04	5811	
D00004675	5.52	4.43	20.70	9/17/2017	PT2.2	1.09	3.0E-06	3.72E-05	29297	
D00006125	5.00	3.63	21.00	9/17/2017	PT2.2	1.37	1.0E-05	2.34E-04	4456	
D00006129	4.24	2.94	20.60	9/17/2017	PT2.2	1.30	5.8E-05	1.15E-03	917	
D00006287	5.46	3.07	20.70	9/17/2017	PT2.2	2.39	3.5E-06	8.51E-04	1180	
D00006318	5.35	4.22	20.70	9/17/2017	PT2.2	1.13	4.5E-06	6.03E-05	17925	
D00006319	5.00	3.40	19.90	9/17/2017	PT2.2	1.60	1.0E-05	3.98E-04	2577	
D00006320	5.77	5.08	20.10	9/17/2017	PT2.2	0.69	1.7E-06	8.32E-06	151071	
D00006321	6.03	4.64	20.00	9/17/2017	PT2.2	1.39	9.3E-07	2.29E-05	45505	
D00006325	5.51	4.02	20.00	9/17/2017	PT2.2	1.49	3.1E-06	9.55E-05	10821	
D00006490	4.59	3.76	20.60	9/17/2017	PT2.2	0.83	2.6E-05	1.74E-04	6753	
D00006496	5.33	2.50	20.10	9/17/2017	PT2.2	2.83	4.7E-06	3.16E-03	317	
D00006767	5.89	4.14	19.80	9/17/2017	PT2.2	1.75	1.3E-06	7.24E-05	14054	
D00006902	5.89	5.02	20.10	9/17/2017	PT2.2	0.87	1.3E-06	9.55E-06	121041	
D00006908	5.62	4.10	19.70	9/17/2017	PT2.2	1.52	2.4E-06	7.94E-05	12981	
D00006913	5.52	4.06	19.70	9/17/2017	PT2.2	1.46	3.0E-06	8.71E-05	11894	
D00006925	4.72	2.86	19.90	9/17/2017	PT2.2	1.86	1.9E-05	1.38E-03	735	
D00007321	5.24	3.63	19.90	9/17/2017	PT2.2	1.61	5.8E-06	2.34E-04	4373	
D00007361	4.26		20.10	9/17/2017	PT2.2					spilled before acid
D00007366	6.28	4.67	20.00	9/17/2017	PT2.2	1.61	5.2E-07	2.14E-05	47951	
_GravelPitSTD	6.4	5.11	19.3	9/17/2017	PT2.2	1.29	4.0E-07	7.76E-06	135789	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007448	5.36	3.18	19.80	9/17/2017	PT2.2	2.18	4.4E-06	6.61E-04	1524	
D00007449	5.76	5.23	19.80	9/17/2017	PT2.2	0.53	1.7E-06	5.89E-06	240927	
D00007528	5.78	2.94	19.20	9/17/2017	PT2.2	2.84	1.7E-06	1.15E-03	872	
D00007529	4.77	2.73	19.50	9/17/2017	PT2.2	2.04	1.7E-05	1.86E-03	542	
D00007530	5.16	3.17	19.50	9/17/2017	PT2.2	1.99	6.9E-06	6.76E-04	1494	
D00007531	4.65	2.50	19.80	9/17/2017	PT2.2	2.15	2.2E-05	3.16E-03	318	
D00007532	4.62	2.61	19.80	9/17/2017	PT2.2	2.01	2.4E-05	2.45E-03	411	
D00007533	4.77	3.82	19.70	9/17/2017	PT2.2	0.95	1.7E-05	1.51E-04	7442	
D00007534	4.37	2.65	19.10	9/17/2017	PT2.2	1.72	4.3E-05	2.24E-03	455	
D00007535	4.60	2.56	19.20	9/17/2017	PT2.2	2.04	2.5E-05	2.75E-03	366	
D00007536	4.78	2.54	19.20	9/17/2017	PT2.2	2.24	1.7E-05	2.88E-03	349	
D00007537	5.07	3.51	19.20	9/17/2017	PT2.2	1.56	8.5E-06	3.09E-04	3328	
D00007538	5.96	3.92	19.30	9/17/2017	PT2.2	2.04	1.1E-06	1.20E-04	8394	
D00004667	6.11	4.72	20.30	9/17/2017	PT2.2	1.39	7.8E-07	1.91E-05	54710	
D00004671	4.71	4.10	20.80	9/17/2017	PT2.2	0.61	1.9E-05	7.94E-05	16685	
D00004674				9/17/2017	PT2.2					MISSING SAMPLE
D00006124	5.04	2.71	20.90	9/17/2017	PT2.2	2.33	9.1E-06	1.95E-03	515	
D00006130	4.17	2.74	20.30	9/17/2017	PT2.2	1.43	6.8E-05	1.82E-03	571	
D00006286	4.51	2.55	20.60	9/17/2017	PT2.2	1.96	3.1E-05	2.82E-03	359	
D00006317	4.00	2.87	20.40	9/17/2017	PT2.2	1.13	1.0E-04	1.35E-03	801	
D00006322	5.94	5.01	20.40	9/17/2017	PT2.2	0.93	1.1E-06	9.77E-06	115953	
D00006489	4.63	2.83	20.40	9/17/2017	PT2.2	1.80	2.3E-05	1.48E-03	687	
D00006494	5.43	4.16	20.40	9/17/2017	PT2.2	1.27	3.7E-06	6.92E-05	15275	
D00006766	5.40	4.49	19.40	9/17/2017	PT2.2	0.91	4.0E-06	3.24E-05	35238	
D00006903	6.01	4.98	19.40	9/17/2017	PT2.2	1.03	9.8E-07	1.05E-05	105329	
D00006907	6.13	4.01	19.00	9/17/2017	PT2.2	2.12	7.4E-07	9.77E-05	10311	
D00006914	5.14	3.88	19.10	9/17/2017	PT2.2	1.26	7.2E-06	1.32E-04	8027	
_GravelPitSTD	6.12	4.82	21	9/17/2017	PT2.2	1.30	7.6E-07	1.51E-05	69555	
D00006924	4.42	2.42	19.10	9/17/2017	PT2.2	2.00	3.8E-05	3.80E-03	266	
D00007319	4.37	2.79	19.20	9/17/2017	PT2.2	1.58	4.3E-05	1.62E-03	633	
D00007320	4.82	2.71	19.20	9/17/2017	PT2.2	2.11	1.5E-05	1.95E-03	517	
D00007360	4.74	2.97	18.80	9/17/2017	PT2.2	1.77	1.8E-05	1.07E-03	949	
D00007367	5.30	4.13	19.20	9/17/2017	PT2.2	1.17	5.0E-06	7.41E-05	14468	
D00007446	4.67	2.81	19.20	9/17/2017	PT2.2	1.86	2.1E-05	1.55E-03	655	
D00007447	4.48	3.44	19.40	9/17/2017	PT2.2	1.04	3.3E-05	3.63E-04	3031	
D00006120	5.61	3.18	22.30	9/17/2017	Oakton	2.43	2.5E-06	6.61E-04	1519	
D00006134	4.73	3.52	22.30	9/17/2017	Oakton	1.21	1.9E-05	3.02E-04	3529	
D00006282	4.63	3.50	22.40	9/17/2017	Oakton	1.13	2.3E-05	3.16E-04	3415	
D00006313	4.79	3.95	22.50	9/17/2017	Oakton	0.84	1.6E-05	1.12E-04	10418	
D00006485	7.29	6.07	22.40	9/17/2017	Oakton	1.22	5.1E-08	8.51E-07	1250231	
D00006666	5.44	3.38	21.70	9/17/2017	Oakton	2.06	3.6E-06	4.17E-04	2420	
D00006757	6.25	5.18	21.90	9/17/2017	Oakton	1.07	5.6E-07	6.61E-06	165437	2 drops acod
D00006919	5.53	3.75	21.90	9/17/2017	Oakton	1.78	3.0E-06	1.78E-04	5718	
D00007216	5.01	2.81	21.70	9/17/2017	Oakton	2.20	9.8E-06	1.55E-03	650	
D00007314	6.67	4.67	21.90	9/17/2017	Oakton	2.00	2.1E-07	2.14E-05	47246	
D00007315	5.71	3.55	21.50	9/17/2017	Oakton	2.16	1.9E-06	2.82E-04	3573	
D00007356	6.54	3.36	21.40	9/17/2017	Oakton	3.18	2.9E-07	4.37E-04	2292	2 drops acid
D00007371	5.95	4.66	21.30	9/17/2017	Oakton	1.29	1.1E-06	2.19E-05	48180	
D00007427	5.45	3.45	21.50	9/17/2017	Oakton	2.00	3.5E-06	3.55E-04	2847	
_GravelPitSTD	8.66	5.35	21.4	9/17/2017	Oakton	3.31	2.2E-09	4.47E-06	223982	
D00007429	5.52	3.31	21.40	9/17/2017	Oakton	2.21	3.0E-06	4.90E-04	2054	
D00007432	4.53	2.93	21.40	9/17/2017	Oakton	1.60	3.0E-05	1.17E-03	873	
D00007438	5.76	3.49	22.10	9/17/2017	Oakton	2.27	1.7E-06	3.24E-04	3107	3 drops of acid
D00007442	5.47	3.24	21.80	9/17/2017	Oakton	2.23	3.4E-06	5.75E-04	1748	
D00007663	7.02	5.73	22.10	9/17/2017	Oakton	1.29	9.5E-08	1.86E-06	566063	
D00006119	6.34	3.53	23.60	9/17/2017	Oakton	2.81	4.6E-07	2.95E-04	3394	
D00006135	5.48	4.46	23.40	9/17/2017	Oakton	1.02	3.3E-06	3.47E-05	31885	
D00006276	6.79	4.78	23.90	9/17/2017	Oakton	2.01	1.6E-07	1.66E-05	60851	
D00006277	5.81	4.22	22.90	9/17/2017	Oakton	1.59	1.5E-06	6.03E-05	17034	
D00006278	4.87	3.02	22.40	9/17/2017	Oakton	1.85	1.3E-05	9.55E-04	1062	
D00006279	5.75		22.10	9/17/2017	Oakton					no acid
D00006280	7.91	4.83	21.90	9/17/2017	Oakton	3.08	1.2E-08	1.48E-05	67665	
D00006281	7.86	6.53	21.70	9/17/2017	Oakton	1.33	1.4E-08	2.95E-07	3554708	
D00006311	5.09	4.45	21.50	9/17/2017	Oakton	0.64	8.1E-06	3.55E-05	36559	
D00006484	5.55	3.05	21.70	9/17/2017	Oakton	2.50	2.8E-06	8.91E-04	1126	
D00006667	5.32	2.78	22.00	9/17/2017	Oakton	2.54	4.8E-06	1.66E-03	604	
D00006917	6.32	3.69	21.60	9/17/2017	Oakton	2.63	4.8E-07	2.04E-04	4909	
D00006918	4.07	2.97	21.80	9/17/2017	Oakton	1.10	8.5E-05	1.07E-03	1014	
D00007217	4.77	2.95	21.90	9/17/2017	Oakton	1.82	1.7E-05	1.12E-03	905	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007313	6.65	5.23	22.20	9/17/2017	Oakton	1.42	2.2E-07	5.89E-06	176536	
D00007355	5.89	3.70	21.90	9/17/2017	Oakton	2.19	1.3E-06	2.00E-04	5044	
D00007425	4.99	3.42	22.10	9/17/2017	Oakton	1.57	1.0E-05	3.80E-04	2703	
D00007426	5.46	3.34	22.20	9/17/2017	Oakton	2.12	3.5E-06	4.57E-04	2204	
D00007430	5.69	3.56	22.20	9/17/2017	Oakton	2.13	2.0E-06	2.75E-04	3658	
D00007431	5.15	3.83	22.40	9/17/2017	Oakton	1.32	7.1E-06	1.48E-04	7101	
D00007439	5.22	3.29	22.10	9/17/2017	Oakton	1.93	6.0E-06	5.13E-04	1973	2 drops acid
D00007440	5.00	3.55	21.80	9/17/2017	Oakton	1.45	1.0E-05	2.82E-04	3679	
_GravelPitSTD	8.33	4.85	22.7	9/17/2017	Oakton	3.48	4.7E-09	1.41E-05	70818	
D00007441	5.49	4.48	22.20	9/17/2017	Oakton	1.01	3.2E-06	3.31E-05	33470	
D00007555	5.20	2.85	22.10	9/17/2017	Oakton	2.35	6.3E-06	1.41E-03	711	
D00007556	5.02	3.26	22.40	9/17/2017	Oakton	1.76	9.5E-06	5.50E-04	1852	
D00007557	5.28	2.65	23.10	9/17/2017	Oakton	2.63	5.2E-06	2.24E-03	448	2 drops acid
D00007662	4.38	2.91	23.20	9/17/2017	Oakton	1.47	4.2E-05	1.23E-03	841	
D00006115	4.60	3.45	16.20	9/17/2017	PT2.2	1.15	2.5E-05	3.55E-04	3033	
D00006139	4.97	3.09	16.30	9/17/2017	PT2.2	1.88	1.1E-05	8.13E-04	1247	
D00006198	5.46	4.58	16.40	9/17/2017	PT2.2	0.88	3.5E-06	2.63E-05	43792	
D00006199	4.77	3.45	17.20	9/17/2017	PT2.2	1.32	1.7E-05	3.55E-04	2960	
D00006272	5.52	4.85	17.00	9/17/2017	PT2.2	0.67	3.0E-06	1.41E-05	90046	
D00006302	5.31	3.03	16.80	9/17/2017	PT2.2	2.28	4.9E-06	9.33E-04	1077	
D00006304	6.92	2.96	25.70	9/17/2017	PT2.2	3.96	1.2E-07	1.10E-03	912	
D00006306	4.10	3.07	24.90	9/17/2017	PT2.2	1.03	7.9E-05	8.51E-04	1296	
D00006446	5.48	5.08	24.80	9/17/2017	PT2.2	0.40	3.3E-06	8.32E-06	199747	
D00006448	4.35	3.39	22.70	9/17/2017	PT2.2	0.96	4.5E-05	4.07E-04	2757	
D00006461	4.31	2.83	22.70	9/17/2017	PT2.2	1.48	4.9E-05	1.48E-03	699	
D00006597	4.38	2.81	22.60	9/17/2017	PT2.2	1.57	4.2E-05	1.55E-03	664	
D00006671	4.39	2.55	22.80	9/17/2017	PT2.2	1.84	4.1E-05	2.82E-03	360	
D00006754	4.49	2.78	22.30	9/17/2017	PT2.2	1.71	3.2E-05	1.66E-03	615	
D00006805	5.58	4.92	22.40	9/17/2017	PT2.2	0.66	2.6E-06	1.20E-05	106469	
D00006811	5.28	4.07	22.10	9/17/2017	PT2.2	1.21	5.2E-06	8.51E-05	12521	
D00007195	5.45	3.83	20.70	9/17/2017	PT2.2	1.62	3.5E-06	1.48E-04	6927	
D00007222	5.66	5.22	20.80	9/17/2017	PT2.2	0.44	2.2E-06	6.03E-06	260564	
D00007309	5.12	2.47	20.40	9/17/2017	PT2.2	2.65	7.6E-06	3.39E-03	296	
D00007351	4.29	2.66	20.70	9/17/2017	PT2.2	1.63	5.1E-05	2.19E-03	468	
D00007375	4.62	2.43	20.50	9/17/2017	PT2.2	2.19	2.4E-05	3.72E-03	271	
D00007467	5.63	4.40	20.80	9/17/2017	PT2.2	1.23	2.3E-06	3.98E-05	26691	
D00007469	5.72	4.28	20.80	9/17/2017	PT2.2	1.44	1.9E-06	5.25E-05	19773	
D00007562	6.03	4.22	20.70	9/17/2017	PT2.2	1.81	9.3E-07	6.03E-05	16857	
D00007584	4.88	3.10	20.30	9/17/2017	PT2.2	1.78	1.3E-05	7.94E-04	1280	
D00007586	4.88	2.79	20.20	9/17/2017	PT2.2	2.09	1.3E-05	1.62E-03	622	
D00007641	4.92	3.41	20.60	9/17/2017	PT2.2	1.51	1.2E-05	3.89E-04	2652	SPILLED SOME OF SAMPLE ADDED MORE WATER AND ANOTHER DROP OF ACID
D00007643	5.05	3.62	20.60	9/17/2017	PT2.2	1.43	8.9E-06	2.40E-04	4330	
D00007657	4.70	3.57	20.50	9/17/2017	PT2.2	1.13	2.0E-05	2.69E-04	4013	
D00004953	6.30	5.02	19.40	9/17/2017	Oakton	1.28	5.0E-07	9.55E-06	110513	
D00004957	6.65	3.47	19.70	9/17/2017	Oakton	3.18	2.2E-07	3.39E-04	2953	
D00004980				9/17/2017	Oakton					
D00004981	5.43	4.51	19.60	9/17/2017	Oakton	0.92	3.7E-06	3.09E-05	36781	
D00006109	5.11	3.30	19.40	9/17/2017	Oakton	1.81	7.8E-06	5.01E-04	2027	
D00006146	5.74	4.29	19.40	9/17/2017	Oakton	1.45	1.8E-06	5.13E-05	20216	
D00006230	5.61	3.60	19.40	9/17/2017	Oakton	2.01	2.5E-06	2.51E-04	4020	
D00006266	3.81	3.09	19.60	9/17/2017	Oakton	0.72	1.5E-04	8.13E-04	1520	
D00006328	6.09	4.31	19.80	9/17/2017	Oakton	1.78	8.1E-07	4.90E-05	20762	
D00006330	5.42	4.36	20.00	9/17/2017	Oakton	1.06	3.8E-06	4.37E-05	25094	
D00006338	4.97	3.63	20.10	9/17/2017	Oakton	1.34	1.1E-05	2.34E-04	4470	
D00006341	5.14	3.90	20.20	9/17/2017	Oakton	1.24	7.2E-06	1.26E-04	8428	
D00006439	5.00	4.15	20.20	9/17/2017	Oakton	0.85	1.0E-05	7.08E-05	16449	
D00006440	5.28	3.81	20.50	9/17/2017	Oakton	1.47	5.2E-06	1.55E-04	6683	
D00006467	5.98	4.83	19.90	9/17/2017	Oakton	1.15	1.0E-06	1.48E-05	72759	
D00006591	6.00	4.06	19.70	9/17/2017	Oakton	1.94	1.0E-06	8.71E-05	11615	
D00006656	6.02	4.65	19.30	9/17/2017	Oakton	1.37	9.5E-07	2.24E-05	46659	
D00006748	4.86	2.97	19.20	9/17/2017	Oakton	1.89	1.4E-05	1.07E-03	945	
D00006798	5.52	3.55	19.10	9/17/2017	Oakton	1.97	3.0E-06	2.82E-04	3587	
D00006817	3.88	2.76	18.90	9/17/2017	Oakton	1.12	1.3E-04	1.74E-03	623	
D00006961	6.08	4.93	18.60	9/17/2017	Oakton	1.15	8.3E-07	1.17E-05	91598	
D00007189	5.01	3.26	18.50	9/17/2017	Oakton	1.75	9.8E-06	5.50E-04	1853	
D00007215	5.62	4.46	18.40	9/17/2017	Oakton	1.16	2.4E-06	3.47E-05	30984	

Sample ID	pH original	pH with acid	Temp. (°C)	pH Date	pH Tool	pH Diff	[H +]	[acid H+]	IDH	Comments
D00007228	6.64	4.55	20.20	9/17/2017	Oakton	2.09	2.3E-07	2.82E-05	35772	
D00007303				9/17/2017	Oakton					SPILLED
D00007345	4.61	4.02	19.90	9/17/2017	Oakton	0.59	2.5E-05	9.55E-05	14094	
D00007382	6.67	5.45	31.60	9/17/2017	Oakton	1.22	2.1E-07	3.55E-06	299910	
D00007486	5.67	4.71	30.40	9/17/2017	Oakton	0.96	2.1E-06	1.95E-05	57602	2 DROPS ACID
D00007568	6.23	4.14	28.60	9/17/2017	Oakton	2.09	5.9E-07	7.24E-05	13917	2 DROPS ACID
D00007577	5.00	3.18	27.40	9/17/2017	Oakton	1.82	1.0E-05	6.61E-04	1537	
D00007592	5.70	4.47	26.80	9/17/2017	Oakton	1.23	2.0E-06	3.39E-05	31359	
D00007610	6.10	4.76	26.20	9/17/2017	Oakton	1.34	7.9E-07	1.74E-05	60300	
D00007611	7.41	5.09	26.20	9/17/2017	Oakton	2.32	3.9E-08	8.13E-06	123619	
D00007612	7.10	4.42	25.20	9/17/2017	Oakton	2.68	7.9E-08	3.80E-05	26358	
D00007613	7.01	5.60	24.80	9/17/2017	Oakton	1.41	9.8E-08	2.51E-06	414222	
D00007614	6.63	3.15	24.30	9/17/2017	Oakton	3.48	2.3E-07	7.08E-04	1413	
D00007615	4.47	3.06	23.90	9/17/2017	Oakton	1.41	3.4E-05	8.71E-04	1195	
_InstruCAL	-	-	-	9/18/2017	Oakton	####	#VALUE!	#VALUE!	#VALUE!	
_pH4STD		-		9/18/2017	Oakton	####	1.0E+00	#VALUE!	#VALUE!	
_pH7STD		-		9/18/2017	Oakton	####	1.0E+00	#VALUE!	#VALUE!	
_pH10STD		-		9/18/2017	Oakton	####	1.0E+00	#VALUE!	#VALUE!	
D00004613	7.13	4.34	34.70	9/18/2017	Oakton	2.79	7.4E-08	4.57E-05	21913	
D00004614	5.15	3.94	32.20	9/18/2017	Oakton	1.21	7.1E-06	1.15E-04	9282	
D00004654	4.63	3.71	31.10	9/18/2017	Oakton	0.92	2.3E-05	1.95E-04	5829	
D00006292	4.62	3.06	30.80	9/18/2017	Oakton	1.56	2.4E-05	8.71E-04	1181	
D00006293	4.50	3.00	29.90	9/18/2017	Oakton	1.50	3.2E-05	1.00E-03	1033	
D00006294	4.03	2.89	29.70	9/18/2017	Oakton	1.14	9.3E-05	1.29E-03	837	
D00006295	3.62	2.55	28.80	9/18/2017	Oakton	1.07	2.4E-04	2.82E-03	388	
D00006296	4.76	4.15	26.60	9/18/2017	Oakton	0.61	1.7E-05	7.08E-05	18721	
D00006297	6.45	5.50	26.30	9/18/2017	Oakton	0.95	3.5E-07	3.16E-06	356193	
D00006298	5.25	4.65	25.90	9/18/2017	Oakton	0.60	5.6E-06	2.24E-05	59652	
D00007333	5.75	5.05	25.80	9/18/2017	Oakton	0.70	1.8E-06	8.91E-06	140169	
D00007334	5.60	4.88	25.80	9/18/2017	Oakton	0.72	2.5E-06	1.32E-05	93715	
D00007457	4.13	2.82	25.50	9/18/2017	Oakton	1.31	7.4E-05	1.51E-03	695	
D00007458	4.81	3.00	25.70	9/18/2017	Oakton	1.81	1.5E-05	1.00E-03	1016	
D00007459	6.01	4.41	25.10	9/18/2017	Oakton	1.60	9.8E-07	3.89E-05	26366	
D00007460	6.24	4.12	24.90	9/18/2017	Oakton	2.12	5.8E-07	7.59E-05	13283	
D00007461	4.10	2.58	25.20	9/18/2017	Oakton	1.52	7.9E-05	2.63E-03	392	2 drops of acid
D00007501	4.53	2.58	24.90	9/18/2017	Oakton	1.95	3.0E-05	2.63E-03	385	
D00007502	4.67	2.49	22.70	9/18/2017	Oakton	2.18	2.1E-05	3.24E-03	311	2 drops of acid
D00007503	4.88	2.74	23.30	9/18/2017	Oakton	2.14	1.3E-05	1.82E-03	554	
D00007504	4.68	2.72	23.10	9/18/2017	Oakton	1.96	2.1E-05	1.91E-03	531	
D00007505	4.78	2.54	23.30	9/18/2017	Oakton	2.24	1.7E-05	2.88E-03	349	
D00007506	4.63	2.46	22.90	9/18/2017	Oakton	2.17	2.3E-05	3.47E-03	290	
D00007507	4.87	2.42	23.20	9/18/2017	Oakton	2.45	1.3E-05	3.80E-03	264	
D00007508	4.44	2.47	23.50	9/18/2017	Oakton	1.97	3.6E-05	3.39E-03	298	
D00007509	4.03	2.91	23.40	9/18/2017	Oakton	1.12	9.3E-05	1.23E-03	880	
D00007510	4.21	2.70	23.10	9/18/2017	Oakton	1.51	6.2E-05	2.00E-03	517	
D00007511	5.87	2.60	22.50	9/18/2017	Oakton	3.27	1.3E-06	2.51E-03	398	
D00007512	4.88	3.22	22.20	9/18/2017	Oakton	1.66	1.3E-05	6.03E-04	1697	
_GravelPitSTD	8.32	4.75	22.2	9/18/2018	Oakton	3.57	4.8E-09	1.78E-05	56249	
D00007513	4.65	2.97	22.20	9/18/2017	Oakton	1.68	2.2E-05	1.07E-03	953	
D00007514	5.19	3.03	22.60	9/18/2017	Oakton	2.16	6.5E-06	9.33E-04	1079	
D00007515	4.61	2.92	22.90	9/18/2017	Oakton	1.69	2.5E-05	1.20E-03	849	
D00006931	5.62	4.98	23.00	9/18/2017	Oakton	0.64	2.4E-06	1.05E-05	123878	
D00006341	4.90	3.90	22.70	9/18/2017	Oakton	1.00	1.3E-05	1.26E-04	8826	
D00006900	5.44	3.52	22.50	9/18/2018	Oakton	1.92	3.6E-06	3.02E-04	3352	

Appendix M: Soil Sample Certificates of Analysis

This appendix contains all of the certificates of analysis (COA) pertaining to soil samples collected at the KZK Project during 2017. All samples were analyzed for Au, Ag, Al, As, Ba, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, Sb, Sc, Sn, Sr, Th, Ti, Tl, U, V, W, Y, Zn and select samples were analyzed for pH. COAs are listed in alphanumeric order, with the first page of each COA indicated in the Page Number column in Table M-1 below.

Table M-1: Table of contents for COAs in this appendix

Certificate	Samples (#)	Page Number
VC172741	76	1
VC172742	76	17
VC172743	58	33
VC172752	76	44
VC172754	76	60
VC172755	76	76
VC172756	44	92
VC172758	76	103
VC172759	76	119
VC172760	76	135
VC172761	71	151
VC172765	76	167
VC172766	76	183
VC172767	76	199
VC172768	76	215
VC172769	66	231
VC172782	76	243
VC172783	76	259
VC172784	76	275

Certificate	Samples (#)	Page Number
VC172785	76	291
VC172786	76	307
VC172787	76	323
VC172788	37	339
VC172790	76	350
VC172791	76	366
VC172792	76	382
VC172794	76	398
VC172796	76	414
VC172798	76	430
VC172799	76	446
VC172800	37	462
VC172818	22	473
VC173360	76	481
VC173361	76	497
VC173362	76	513
VC173363	76	529
VC173364	91	545

Certificate of Analysis
Work Order : VC172741
[Report File No.: 0000024588]

Date: September 12, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01010
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package
12	GE_ISE15V	Paste pH on Soils and/or Sediments sample

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By :

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007872	0.670	73	8.81	1.88	131	273	2.39	0.44
D00007873	0.635	22	2.72	1.94	22	415	1.01	0.57
D00007874	0.275	8	1.27	0.88	13	216	0.19	0.38
D00007875	0.305	10	0.12	0.82	8	70	0.61	0.12
D00007876	0.295	<5	0.15	1.16	5	132	0.26	0.30
D00007877	0.405	8	0.75	1.54	19	204	0.79	0.43
D00007878	0.380	7	0.50	1.57	17	227	0.50	0.33
D00007879	0.605	14	1.54	1.75	36	262	0.62	0.49
D00007880	0.115	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00007881	0.260	14	2.49	1.49	75	123	1.12	0.29
D00007882	0.265	7	1.29	1.10	10	142	0.39	0.20
D00007883	0.205	7	2.61	1.21	8	207	0.35	0.29
D00007884	0.295	6	0.58	1.55	10	249	0.32	0.80
D00007885	0.785	<5	0.35	0.54	39	113	0.46	0.05
D00007886	0.460	7	0.23	0.58	42	130	0.35	0.06
D00007887	0.275	8	1.58	1.22	57	412	0.78	0.20
D00007888	0.500	6	0.17	1.36	12	136	0.35	0.17
D00007889	0.435	6	0.40	1.44	18	294	0.51	0.15
D00007890	0.750	11	0.26	0.81	17	92	0.33	0.13
D00007891	0.665	8	0.18	1.11	14	110	0.33	0.17
D00007892	0.350	7	0.17	1.51	9	150	0.23	0.23
D00007893	0.220	<5	0.73	0.99	8	264	0.28	0.13
D00007894	0.365	<5	0.30	1.91	12	211	0.34	0.39
D00007895	0.460	<5	0.20	0.82	7	223	0.30	0.15
D00007896	0.315	6	0.16	0.90	7	101	0.25	0.08
D00007897	0.295	7	0.32	1.24	15	102	0.29	0.11
D00007898	0.305	<5	0.08	0.53	6	79	0.24	0.12
D00007899	0.380	<5	0.04	1.45	5	170	0.23	0.52
D00007900	0.530	<5	0.05	1.35	6	188	0.24	0.44
D00007901	0.445	<5	0.04	1.10	7	164	0.30	0.43
B00292501	0.275	<5	0.01	2.92	20	146	0.05	0.38
B00292502	0.285	<5	0.02	3.00	20	149	0.15	0.42
B00292503	0.285	<5	0.04	3.10	14	115	0.20	0.32
B00292504	0.385	<5	0.02	2.56	13	126	0.12	0.38
B00292505	0.310	6	0.03	2.14	16	93	0.16	0.27
B00292506	0.250	<5	0.05	1.89	16	113	0.19	0.26
B00292507	0.205	<5	0.06	1.29	10	64	0.12	0.18
B00292508	0.175	6	0.04	1.49	8	96	0.22	0.14
B00292509	0.275	<5	0.03	2.08	20	85	0.21	0.22
B00292510	0.085	<5	0.06	1.41	19	93	0.21	0.21

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292511	0.150	5	0.12	1.44	7	62	0.23	0.29
B00292512	0.230	<5	0.16	1.08	4	80	0.35	0.09
B00292513	0.200	<5	0.12	1.21	4	105	1.07	0.17
B00292514	0.215	<5	0.08	1.65	6	91	0.26	0.17
B00292515	0.140	7	0.24	1.38	10	75	0.29	0.34
B00292516	0.170	7	0.08	2.43	13	77	0.25	0.54
B00292517	0.140	<5	0.04	1.53	9	72	0.20	0.08
B00292518	0.250	7	0.03	1.77	19	87	0.26	0.12
B00292519	0.225	<5	0.02	1.88	16	84	0.16	0.25
B00292520	0.155	5	0.04	2.42	8	147	0.20	0.29
B00292521	0.190	<5	0.04	2.50	12	205	0.18	0.38
B00292522	0.225	6	0.02	2.75	11	225	0.13	0.42
B00292523	0.265	5	0.05	2.85	15	131	0.11	0.26
B00292524	0.260	<5	0.02	2.63	20	114	0.13	0.33
B00292525	0.160	<5	<0.01	0.17	<1	19	<0.02	0.04
B00292526	0.280	5	0.03	2.83	32	166	0.18	0.31
B00292527	0.385	<5	0.04	2.68	33	182	0.21	0.35
B00292528	0.380	<5	0.05	2.93	23	165	0.18	0.39
B00292529	0.175	47	0.11	3.13	7	135	0.33	0.28
B00292530	0.130	<5	0.12	2.25	26	162	0.23	0.19
B00292531	0.250	<5	0.03	1.46	12	114	0.15	0.16
B00292532	0.400	7	0.02	1.41	8	76	0.13	0.17
B00292533	0.250	<5	0.02	1.65	31	170	0.23	0.26
B00292534	0.255	<5	0.12	2.59	26	223	0.41	0.50
B00292535	0.255	7	0.04	2.36	35	535	0.08	0.83
B00292536	0.360	<5	0.09	3.81	22	722	0.05	0.48
B00292537	0.325	<5	0.27	2.80	21	126	0.57	0.30
B00292538	0.455	<5	0.18	2.11	11	170	0.27	0.36
B00292539	0.290	6	0.05	2.02	19	132	0.81	0.28
B00292540	0.305	116	0.04	2.07	19	129	0.79	0.29
B00292541	0.345	5	0.03	1.67	12	86	0.79	0.26
B00292542	0.430	<5	0.03	1.49	14	111	0.14	0.23
B00292543	0.145	<5	0.03	0.37	<1	21	0.02	0.05
B00292544	0.395	7	0.03	1.85	18	85	0.13	0.31
B00292545	0.310	<5	0.12	2.17	45	140	0.33	0.69
B00292546	0.095	<5	0.07	1.48	11	146	0.12	0.73
*Std OREAS151B		68						
*Std OXK119		3630						
*Std AMIS0474		155						
*Blk BLANK		<5						

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Final : VC172741 Order: PO# BMC17-01010

Report File No.: 0000024588

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep B00292503		0.04	3.04	13	111	0.19	0.32
*Rep B00292526		0.03	2.67	33	163	0.17	0.31
*Std OREAS920		0.08	2.57	5	85	0.58	0.35
*Std OREAS151B		0.50	2.60	33	70	0.39	1.33
*Std OREAS902		0.25	0.58	592	16	8.55	3.90
*Std OREAS920		0.07	2.53	4	81	0.71	0.33
*Std OREAS902		0.26	0.56	598	16	8.72	4.08
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007890	<5						
*Rep D00007900	10						
*Rep B00292538	6						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007872	10.7	58.7	15.5	59	257	4.12	6.3	0.96
D00007873	4.63	49.3	12.5	63	82.2	2.92	6.3	1.17
D00007874	9.22	29.1	2.1	7	94.4	0.77	2.5	0.38
D00007875	0.39	16.6	4.7	29	12.2	1.92	8.3	0.04
D00007876	1.21	23.3	4.9	32	13.2	1.66	4.9	0.04
D00007877	3.07	45.6	9.0	36	50.4	2.59	5.1	0.09
D00007878	2.21	27.2	9.7	51	40.8	2.61	6.4	0.09
D00007879	10.8	39.8	11.9	47	97.0	2.98	6.2	0.33
D00007880	0.01	0.84	<0.1	1	0.8	0.03	<0.1	0.01
D00007881	1.28	39.6	7.3	44	59.5	2.79	5.4	0.28
D00007882	2.43	33.5	5.3	30	55.1	1.87	4.4	0.40
D00007883	3.97	36.7	4.0	27	71.3	1.69	4.2	0.36
D00007884	11.2	39.8	9.6	41	127	2.47	5.3	0.15
D00007885	0.50	37.0	6.4	9	23.1	1.47	1.5	0.05
D00007886	0.33	36.6	4.2	13	16.2	1.92	2.3	0.03
D00007887	1.68	49.6	8.2	26	29.5	2.59	4.5	0.19
D00007888	0.43	35.2	8.1	35	17.1	2.33	4.9	0.04
D00007889	1.05	39.3	7.3	35	23.2	2.48	5.6	0.07
D00007890	0.40	45.3	5.0	18	14.0	1.59	2.5	0.06
D00007891	0.66	46.8	7.2	27	14.9	1.91	3.5	0.04
D00007892	0.77	39.7	7.8	42	16.3	2.24	4.3	0.04
D00007893	1.72	43.9	11.8	20	15.4	1.33	3.5	0.11
D00007894	1.53	48.7	9.9	51	14.0	2.48	5.5	0.07
D00007895	1.25	49.6	5.0	22	14.0	1.37	3.4	0.03
D00007896	0.51	34.5	2.1	15	9.6	1.16	3.3	0.03
D00007897	0.70	67.1	3.1	21	13.5	0.99	3.8	0.08
D00007898	0.25	35.2	2.2	13	6.5	0.97	2.9	0.02
D00007899	0.37	34.0	11.1	56	20.4	2.38	5.0	<0.01
D00007900	0.27	35.3	8.7	35	14.7	2.32	5.2	<0.01
D00007901	0.36	39.1	6.9	28	16.2	2.01	4.4	0.01
B00292501	0.05	14.6	24.2	141	30.5	3.97	6.7	0.01
B00292502	0.09	27.1	22.0	117	29.9	4.52	7.5	<0.01
B00292503	0.05	20.9	18.8	144	22.2	4.00	7.6	0.02
B00292504	0.14	37.7	15.5	63	21.1	3.74	6.9	<0.01
B00292505	0.13	32.0	13.5	53	19.3	3.35	6.2	<0.01
B00292506	0.11	36.6	11.2	53	18.0	2.80	5.6	<0.01
B00292507	0.06	23.9	6.3	32	13.5	1.71	3.6	0.02
B00292508	0.07	33.9	6.1	35	13.1	1.65	4.8	<0.01
B00292509	0.21	41.7	14.3	50	22.7	3.22	5.6	<0.01
B00292510	0.26	22.7	10.6	29	23.0	2.56	3.9	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292511	0.48	26.9	9.9	32	17.6	3.19	5.4	<0.01
B00292512	0.24	75.4	5.0	15	19.4	2.42	3.3	0.03
B00292513	0.64	61.1	5.5	15	36.5	2.29	3.6	<0.01
B00292514	0.31	46.3	9.0	29	26.5	2.87	4.6	0.01
B00292515	0.84	47.3	11.7	25	16.7	2.86	4.5	0.02
B00292516	0.60	31.9	18.9	75	35.3	4.76	7.1	0.02
B00292517	0.09	26.6	5.2	31	11.5	1.87	4.9	<0.01
B00292518	0.12	34.5	9.5	40	15.7	2.80	5.9	0.01
B00292519	0.13	38.5	11.1	47	18.1	2.95	5.4	<0.01
B00292520	0.09	39.7	12.9	83	21.5	2.79	6.3	0.01
B00292521	0.12	39.3	19.5	72	23.3	3.46	6.9	<0.01
B00292522	0.09	40.2	18.6	62	22.5	4.31	8.3	<0.01
B00292523	0.06	27.1	26.4	152	35.3	3.72	6.6	0.01
B00292524	0.11	38.5	22.7	124	31.3	3.86	6.3	<0.01
B00292525	<0.01	2.15	1.3	4	5.7	0.48	1.0	0.01
B00292526	0.07	44.3	20.8	114	36.0	4.12	7.7	<0.01
B00292527	0.12	52.8	17.2	65	26.6	4.01	7.5	<0.01
B00292528	0.09	49.8	18.6	67	26.3	4.43	8.3	<0.01
B00292529	0.09	63.8	15.8	80	31.0	3.30	9.2	0.03
B00292530	0.10	84.4	11.0	56	23.1	3.03	6.7	0.03
B00292531	0.08	27.9	7.5	33	14.0	2.33	5.2	<0.01
B00292532	0.11	34.4	8.9	26	11.6	2.38	4.6	<0.01
B00292533	0.16	44.7	12.2	24	12.3	3.04	5.2	<0.01
B00292534	0.10	19.7	19.0	50	15.1	4.50	7.3	<0.01
B00292535	0.11	13.9	44.6	165	44.0	4.15	5.8	<0.01
B00292536	0.09	15.4	62.1	98	585	7.37	7.6	<0.01
B00292537	2.46	77.0	24.7	66	136	6.15	8.8	0.02
B00292538	0.87	69.8	13.8	46	48.2	4.00	6.9	0.02
B00292539	0.19	53.5	14.8	36	29.0	3.65	6.4	0.01
B00292540	0.21	51.5	15.0	36	29.4	3.67	6.4	<0.01
B00292541	0.30	37.0	8.2	31	14.8	2.63	4.7	<0.01
B00292542	0.18	48.5	8.7	24	13.2	2.44	4.7	<0.01
B00292543	0.02	5.77	1.2	4	4.8	0.51	1.4	<0.01
B00292544	0.15	37.8	10.7	42	15.4	2.99	5.5	<0.01
B00292545	0.37	47.8	11.3	68	53.9	4.05	6.9	<0.01
B00292546	0.32	20.4	9.3	23	26.1	2.63	4.3	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep B00292503	0.05	19.9	18.4	141	21.7	3.94	7.5	0.03
*Rep B00292526	0.07	43.1	20.6	115	34.3	4.06	7.5	<0.01
*Std OREAS920	0.06	70.5	14.1	44	107	3.67	6.8	0.01
*Std OREAS151B	0.57	15.4	11.2	28	1840	3.31	7.2	0.01
*Std OREAS902	0.02	30.2	944	22	2870	3.01	1.5	0.05
*Std OREAS920	0.05	64.7	13.9	44	109	3.54	6.8	<0.01
*Std OREAS902	0.02	30.7	961	24	2970	3.06	1.6	0.06
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007872	0.32	40.3	1.05	494	2.17	0.01	51.1	860
D00007873	0.21	101	1.10	274	1.33	0.01	59.8	1060
D00007874	0.06	118	0.10	141	0.66	0.03	19.6	460
D00007875	0.16	10.4	0.38	159	1.14	0.01	12.2	370
D00007876	0.13	13.1	0.55	128	0.77	0.01	14.1	750
D00007877	0.13	30.9	0.75	401	1.75	<0.01	22.1	790
D00007878	0.28	14.2	0.77	310	1.52	0.01	22.0	730
D00007879	0.24	23.8	0.91	474	1.49	0.01	28.8	870
D00007880	<0.01	0.5	<0.01	<2	<0.05	<0.01	<0.5	<50
D00007881	0.21	21.5	0.85	225	1.72	0.02	22.3	790
D00007882	0.17	21.9	0.51	167	1.09	0.01	14.7	870
D00007883	0.15	23.6	0.39	111	1.13	0.01	14.1	1020
D00007884	0.23	27.3	0.90	432	0.96	0.01	25.6	760
D00007885	0.10	21.3	0.12	152	2.52	<0.01	20.8	340
D00007886	0.12	21.4	0.16	140	3.17	<0.01	14.2	430
D00007887	0.13	28.9	0.28	409	5.27	<0.01	24.1	1190
D00007888	0.16	19.0	0.61	274	1.55	<0.01	20.5	690
D00007889	0.16	21.3	0.52	270	2.34	<0.01	22.1	990
D00007890	0.10	25.2	0.29	159	2.01	<0.01	16.1	510
D00007891	0.13	25.4	0.45	260	1.94	<0.01	21.4	680
D00007892	0.14	22.6	0.64	274	1.16	<0.01	20.4	1040
D00007893	0.09	23.4	0.23	587	1.94	0.02	12.5	1420
D00007894	0.22	30.1	0.91	607	1.86	0.01	26.2	700
D00007895	0.08	26.8	0.19	338	1.49	0.01	10.6	1460
D00007896	0.07	19.9	0.16	85	1.02	<0.01	6.7	980
D00007897	0.11	49.2	0.29	67	1.76	0.01	13.0	600
D00007898	0.12	18.3	0.15	67	1.16	<0.01	6.1	490
D00007899	0.13	13.4	0.97	356	0.98	<0.01	29.6	640
D00007900	0.15	15.7	0.77	347	1.12	<0.01	20.9	700
D00007901	0.19	15.9	0.59	375	0.95	<0.01	22.8	560
B00292501	0.52	7.3	2.35	506	0.54	<0.01	55.1	1000
B00292502	0.60	13.5	2.03	565	0.71	<0.01	50.1	980
B00292503	0.50	14.2	2.20	404	0.45	<0.01	54.0	590
B00292504	0.67	21.4	1.61	392	0.73	<0.01	31.5	1120
B00292505	0.47	16.3	1.26	356	0.87	<0.01	28.6	890
B00292506	0.25	19.5	1.01	315	0.73	<0.01	27.0	810
B00292507	0.12	12.4	0.56	172	0.46	0.02	15.1	730
B00292508	0.14	18.0	0.62	147	0.64	0.02	16.5	740
B00292509	0.29	21.7	1.01	399	1.13	<0.01	32.3	840
B00292510	0.19	10.7	0.71	420	1.29	<0.01	19.4	830

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292511	0.22	15.3	0.86	252	1.75	<0.01	21.0	1030
B00292512	0.13	36.4	0.41	218	1.15	<0.01	12.8	410
B00292513	0.22	28.7	0.59	277	1.15	<0.01	13.4	800
B00292514	0.08	24.7	0.89	301	1.94	<0.01	29.0	800
B00292515	0.22	18.6	0.69	282	1.32	<0.01	21.4	1130
B00292516	0.14	13.7	1.74	951	1.01	<0.01	42.7	1430
B00292517	0.12	14.2	0.56	135	0.61	0.01	14.3	610
B00292518	0.22	17.1	0.70	377	1.18	<0.01	21.3	580
B00292519	0.35	20.8	0.99	304	0.80	<0.01	28.3	820
B00292520	0.31	22.5	1.43	272	0.75	<0.01	40.6	740
B00292521	0.53	20.8	1.37	409	0.72	<0.01	38.1	1080
B00292522	0.77	23.6	1.57	655	0.74	<0.01	33.5	1270
B00292523	0.25	14.0	2.07	544	0.62	<0.01	70.7	820
B00292524	0.52	23.8	1.92	379	0.64	<0.01	59.3	870
B00292525	0.02	1.3	0.04	25	0.09	0.03	1.6	160
B00292526	0.37	28.7	1.77	452	0.95	<0.01	56.2	900
B00292527	0.58	33.1	1.55	439	0.97	<0.01	38.3	1040
B00292528	0.70	30.9	1.65	511	0.79	<0.01	34.8	1100
B00292529	0.46	42.8	1.59	368	0.45	<0.01	35.7	890
B00292530	0.40	56.7	0.98	272	1.30	0.01	24.9	810
B00292531	0.15	16.7	0.67	197	0.58	<0.01	19.0	620
B00292532	0.37	17.5	0.61	312	0.98	<0.01	15.7	660
B00292533	0.57	28.0	0.78	401	0.94	<0.01	15.4	850
B00292534	0.98	12.0	1.45	458	0.86	<0.01	12.1	1400
B00292535	0.68	8.8	1.50	683	0.36	0.01	150	1350
B00292536	1.05	9.4	2.09	707	6.60	<0.01	235	2060
B00292537	0.09	37.1	1.55	989	1.63	<0.01	52.2	1000
B00292538	0.28	44.3	1.16	350	1.48	<0.01	41.1	1320
B00292539	0.41	30.2	0.82	414	1.76	<0.01	23.5	980
B00292540	0.39	30.3	0.80	418	1.74	<0.01	23.1	1000
B00292541	0.16	21.8	0.58	257	1.27	<0.01	21.1	840
B00292542	0.30	27.0	0.56	283	1.13	<0.01	16.4	700
B00292543	0.03	4.3	0.04	25	0.18	0.03	1.2	260
B00292544	0.44	22.1	0.88	311	1.11	<0.01	22.3	930
B00292545	0.40	36.2	1.35	343	4.07	<0.01	31.4	1930
B00292546	0.28	15.2	0.59	326	1.24	0.02	14.2	660

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep B00292503	0.49	13.3	2.16	395	0.45	<0.01	52.3	580
*Rep B00292526	0.37	28.2	1.77	457	0.92	<0.01	56.6	850
*Std OREAS920	0.47	38.7	1.21	526	0.36	0.02	38.3	670
*Std OREAS151B	0.41	7.6	1.56	291	57.2	0.17	15.1	510
*Std OREAS902	0.26	15.8	2.36	461	11.5	<0.01	163	640
*Std OREAS920	0.47	38.4	1.14	520	0.36	0.02	37.6	660
*Std OREAS902	0.27	17.1	2.25	474	12.6	<0.01	164	650
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007872	709	36.0	33.8	4.4	1.1	16.0	12.5	0.15
D00007873	187	20.9	2.61	5.0	0.9	18.8	24.3	0.14
D00007874	32.6	5.2	1.20	1.3	<0.3	17.6	2.4	0.03
D00007875	21.0	18.0	0.41	2.3	1.3	5.3	1.9	0.17
D00007876	22.0	17.5	0.38	2.2	0.7	11.7	1.7	0.09
D00007877	104	19.7	1.37	2.9	0.6	15.4	5.2	0.07
D00007878	52.1	27.6	1.18	1.4	0.9	14.0	0.4	0.07
D00007879	159	35.0	2.43	4.2	0.9	18.3	6.1	0.10
D00007880	0.6	<0.2	0.10	0.1	<0.3	0.6	0.2	<0.01
D00007881	252	24.3	5.28	3.0	0.8	11.8	3.6	0.09
D00007882	89.2	23.5	0.82	2.6	0.6	11.0	2.6	0.06
D00007883	151	18.1	1.04	1.9	0.6	18.5	0.9	0.04
D00007884	40.9	35.1	0.77	3.7	0.7	33.8	4.6	0.09
D00007885	50.8	8.2	2.71	0.9	<0.3	10.3	11.7	0.02
D00007886	44.1	9.8	2.05	1.0	<0.3	11.2	6.9	0.03
D00007887	77.2	22.6	3.11	1.3	0.6	20.0	1.7	0.03
D00007888	33.3	19.1	0.75	2.7	0.7	9.5	5.4	0.09
D00007889	62.1	20.8	1.15	1.7	0.8	11.5	1.6	0.05
D00007890	50.7	9.8	1.19	1.6	0.3	9.1	11.5	0.04
D00007891	50.7	13.2	1.01	2.3	0.4	11.2	10.0	0.06
D00007892	15.3	13.9	0.30	2.0	0.4	10.4	1.6	0.07
D00007893	20.9	13.0	0.36	1.0	0.3	12.9	0.5	0.03
D00007894	20.8	25.5	0.51	4.1	0.6	14.0	7.0	0.12
D00007895	15.9	14.7	0.36	0.7	0.5	11.7	0.3	0.03
D00007896	18.1	16.2	1.31	0.4	0.4	7.8	0.2	0.02
D00007897	23.8	14.8	0.35	1.4	0.3	7.4	2.3	0.04
D00007898	11.7	13.0	0.17	0.7	0.6	7.0	0.7	0.04
D00007899	9.3	15.4	0.13	2.6	0.5	21.8	3.2	0.09
D00007900	12.1	15.8	0.16	3.0	0.7	19.4	3.8	0.09
D00007901	14.0	37.1	0.24	2.4	0.8	16.1	4.4	0.08
B00292501	2.0	35.2	0.17	2.9	<0.3	13.3	2.9	0.16
B00292502	11.7	56.6	0.21	4.3	0.4	16.3	4.4	0.18
B00292503	8.3	44.1	0.18	4.0	0.4	13.8	4.2	0.18
B00292504	7.2	52.3	0.22	4.4	0.4	14.4	8.8	0.19
B00292505	8.6	41.9	0.31	3.4	0.5	12.8	6.3	0.16
B00292506	8.0	25.4	0.25	2.7	0.4	13.6	2.1	0.10
B00292507	5.5	13.0	0.18	1.8	<0.3	10.1	1.6	0.06
B00292508	9.0	16.6	0.21	1.0	0.4	9.3	0.4	0.06
B00292509	10.4	27.9	0.41	3.1	0.4	12.3	5.9	0.11
B00292510	9.6	23.0	0.12	1.3	0.3	10.2	0.7	0.08

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292511	26.8	27.3	0.22	3.3	0.3	15.3	5.4	0.16
B00292512	23.5	14.6	0.33	1.4	<0.3	12.2	8.3	0.06
B00292513	78.2	20.9	0.26	1.4	<0.3	15.0	6.9	0.07
B00292514	19.3	11.5	0.45	2.1	0.4	17.9	4.0	0.08
B00292515	34.1	29.1	0.27	2.6	0.3	16.3	7.5	0.10
B00292516	23.7	19.7	0.21	3.4	<0.3	22.4	4.6	0.10
B00292517	10.0	19.2	0.18	0.9	0.4	7.5	0.4	0.05
B00292518	12.2	25.2	0.38	1.8	0.6	9.0	1.9	0.10
B00292519	8.8	31.9	0.26	2.7	0.4	11.7	6.1	0.12
B00292520	10.2	30.3	0.24	3.4	0.4	13.8	4.7	0.13
B00292521	11.9	40.6	0.19	3.7	0.4	14.8	4.9	0.15
B00292522	9.7	55.0	0.19	4.2	0.5	16.9	4.9	0.20
B00292523	5.0	23.8	0.18	4.1	0.3	13.0	2.7	0.12
B00292524	6.8	47.9	0.21	3.7	0.4	13.4	7.0	0.17
B00292525	0.4	0.7	0.14	0.3	<0.3	6.1	0.2	0.03
B00292526	6.3	40.8	0.28	4.1	0.4	17.5	4.8	0.13
B00292527	7.8	46.8	0.33	4.2	0.5	14.8	7.9	0.17
B00292528	8.9	63.4	0.24	4.7	0.5	15.9	6.6	0.18
B00292529	20.2	48.0	0.34	6.8	0.6	12.5	12.8	0.19
B00292530	18.6	46.1	0.28	5.1	0.5	11.8	5.5	0.12
B00292531	7.3	22.5	0.20	1.8	0.4	11.2	1.8	0.07
B00292532	10.0	41.5	0.37	2.5	0.4	8.3	5.8	0.10
B00292533	12.1	64.6	0.24	3.7	0.5	14.0	10.8	0.13
B00292534	9.6	86.9	0.15	6.2	0.5	15.4	2.8	0.26
B00292535	2.6	52.2	0.21	2.8	0.4	24.4	2.2	0.23
B00292536	1.5	66.1	0.24	5.2	<0.3	36.9	2.1	0.36
B00292537	39.0	15.8	0.31	5.4	0.5	17.8	7.2	0.12
B00292538	68.6	26.6	0.36	4.9	0.4	17.9	8.7	0.12
B00292539	16.2	58.8	0.43	4.7	0.7	13.5	8.9	0.14
B00292540	16.2	56.4	0.42	4.6	0.7	13.4	8.7	0.13
B00292541	13.5	20.2	0.53	3.1	0.5	14.4	7.6	0.09
B00292542	9.0	34.0	0.43	3.1	0.5	13.3	9.0	0.11
B00292543	1.9	1.8	0.05	0.2	<0.3	5.2	0.2	0.02
B00292544	10.9	42.7	0.37	3.4	0.5	12.8	9.0	0.15
B00292545	29.6	47.5	0.15	6.0	0.5	23.1	10.3	0.12
B00292546	11.5	36.8	0.10	3.5	<0.3	26.2	2.7	0.07

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep B00292503	8.1	43.8	0.19	3.9	0.4	13.4	4.0	0.17
*Rep B00292526	6.1	39.4	0.28	4.1	0.4	17.0	4.7	0.13
*Std OREAS920	21.1	26.1	0.61	3.2	1.2	17.0	16.7	0.15
*Std OREAS151B	42.1	18.3	0.51	9.5	1.0	38.9	2.6	0.07
*Std OREAS902	10.4	9.1	0.91	2.7	<0.3	21.1	5.3	<0.01
*Std OREAS920	20.3	26.1	0.57	3.0	1.0	17.3	16.8	0.13
*Std OREAS902	10.7	10.1	0.86	2.8	<0.3	22.0	5.6	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
D00007872	0.65	4.02	52	0.3	19.8	4410	6.26
D00007873	0.33	3.72	48	0.5	42.4	8300	6.32
D00007874	0.20	3.91	14	0.1	73.2	1050	6.35
D00007875	0.13	0.67	59	0.4	4.86	189	7.70
D00007876	0.17	0.69	37	0.3	5.76	160	4.30
D00007877	0.28	2.52	38	0.5	12.1	1020	5.86
D00007878	0.24	1.25	50	0.3	6.40	325	5.12
D00007879	0.57	2.82	48	1.1	10.6	2400	6.32
D00007880	<0.02	0.09	<1	<0.1	0.64	4	4.98
D00007881	0.51	1.72	43	0.3	8.12	697	4.12
D00007882	0.28	3.72	32	0.2	8.58	475	3.96
D00007883	0.22	3.65	25	0.3	7.96	375	4.41
D00007884	0.34	5.64	43	0.3	13.3	1620	N.A.
D00007885	0.21	2.44	13	0.2	5.57	202	N.A.
D00007886	0.29	1.37	19	0.3	3.83	116	N.A.
D00007887	0.41	3.10	34	0.3	8.44	232	N.A.
D00007888	0.20	1.39	40	0.3	6.24	135	N.A.
D00007889	0.25	2.92	41	0.3	8.40	181	N.A.
D00007890	0.15	1.82	23	0.2	6.25	191	N.A.
D00007891	0.17	1.82	32	0.3	7.44	299	N.A.
D00007892	0.17	1.98	36	0.2	9.48	322	N.A.
D00007893	0.23	3.12	25	0.2	9.88	133	N.A.
D00007894	0.30	2.30	46	0.3	10.8	331	N.A.
D00007895	0.09	3.49	25	0.2	11.7	97	N.A.
D00007896	0.11	2.25	22	0.2	6.92	65	N.A.
D00007897	0.23	5.57	21	0.2	21.7	193	N.A.
D00007898	0.08	1.17	22	0.3	5.53	38	N.A.
D00007899	0.09	0.78	40	1.7	6.16	90	N.A.
D00007900	0.12	0.94	38	0.3	6.82	90	N.A.
D00007901	0.17	1.08	32	1.7	7.48	106	N.A.
B00292501	0.21	0.40	73	0.2	3.89	56	N.A.
B00292502	0.37	0.80	83	0.2	6.38	75	N.A.
B00292503	0.30	0.66	79	0.2	6.07	64	N.A.
B00292504	0.34	1.03	68	0.2	9.27	65	N.A.
B00292505	0.29	1.02	60	0.2	7.64	64	N.A.
B00292506	0.18	1.60	47	0.2	11.8	51	N.A.
B00292507	0.15	1.23	31	0.4	8.01	30	N.A.
B00292508	0.15	1.72	33	0.2	8.81	36	N.A.
B00292509	0.25	1.56	48	0.3	8.53	72	N.A.
B00292510	0.17	1.57	43	0.1	6.45	82	N.A.

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
B00292511	0.26	1.12	70	0.2	7.82	187	N.A.
B00292512	0.26	1.40	25	0.3	8.28	71	N.A.
B00292513	0.32	1.21	25	0.1	8.04	251	N.A.
B00292514	0.18	1.97	45	0.2	7.83	129	N.A.
B00292515	0.26	1.21	47	0.2	9.07	314	N.A.
B00292516	0.11	0.72	54	0.1	5.79	257	N.A.
B00292517	0.15	1.16	30	0.2	6.26	39	N.A.
B00292518	0.22	1.41	48	1.6	7.47	52	N.A.
B00292519	0.24	1.35	45	0.2	8.74	59	N.A.
B00292520	0.27	1.25	53	0.2	9.47	61	N.A.
B00292521	0.29	1.24	65	0.2	10.3	66	N.A.
B00292522	0.35	1.34	84	0.2	14.1	73	N.A.
B00292523	0.20	0.80	63	0.2	5.60	58	N.A.
B00292524	0.32	0.90	58	0.2	8.08	67	N.A.
B00292525	0.02	0.16	15	<0.1	0.53	7	N.A.
B00292526	0.27	0.96	71	0.2	7.96	72	N.A.
B00292527	0.30	1.22	63	0.3	10.9	74	N.A.
B00292528	0.37	1.38	72	0.5	14.4	74	N.A.
B00292529	0.43	2.39	67	0.3	20.6	66	N.A.
B00292530	0.37	3.31	52	0.3	20.9	54	N.A.
B00292531	0.14	0.95	35	0.2	7.33	50	N.A.
B00292532	0.24	1.41	42	0.2	9.87	52	N.A.
B00292533	0.38	2.37	50	0.2	14.5	52	N.A.
B00292534	0.49	1.28	116	0.3	7.31	67	N.A.
B00292535	0.44	0.41	69	0.2	3.80	99	N.A.
B00292536	0.57	1.12	122	0.2	7.04	181	N.A.
B00292537	0.18	1.09	66	0.2	16.9	475	N.A.
B00292538	0.26	1.91	63	0.2	22.1	803	N.A.
B00292539	0.47	1.99	57	0.3	13.6	66	N.A.
B00292540	0.44	1.99	57	0.2	13.7	65	N.A.
B00292541	0.18	1.36	45	0.5	8.55	58	N.A.
B00292542	0.24	1.61	42	0.3	10.7	54	N.A.
B00292543	0.04	0.63	12	<0.1	2.44	7	N.A.
B00292544	0.27	1.71	55	0.2	10.7	59	N.A.
B00292545	0.42	3.28	93	0.2	16.8	280	N.A.
B00292546	0.24	3.61	50	<0.1	13.2	131	N.A.

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
*Rep B00292503	0.29	0.65	75	0.2	6.03	61	
*Rep B00292526	0.26	0.97	73	0.2	7.77	73	
*Std OREAS920	0.17	2.46	25	0.6	20.3	108	
*Std OREAS151B	0.13	0.65	150	0.6	10.2	242	
*Std OREAS902	0.25	2.46	10	2.1	7.29	6	
*Std OREAS920	0.17	2.32	25	0.6	19.5	107	
*Std OREAS902	0.25	2.46	10	2.2	7.80	6	
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1	
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1	
*Rep D00007872							6.19
*Std AMIS0267							7.83
*Blk BLANK							6.97

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Certificate of Analysis
Work Order : VC172742
[Report File No.: 0000025097]

Date: October 04, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01010
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
74	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292547	0.135	<5	0.23	3.09	42	238	0.47	0.53
B00292548	0.310	<5	0.03	1.66	19	72	0.37	0.22
B00292549	0.090	<5	0.08	0.42	3	33	0.07	0.06
B00292550	0.120	<5	0.08	0.19	<1	23	<0.02	0.04
B00292551	0.225	<5	0.11	1.16	25	126	0.42	0.12
B00292552	0.335	<5	0.13	1.65	38	139	0.39	0.29
B00292553	0.155	<5	0.33	1.31	36	157	0.42	0.15
B00292554	0.275	<5	0.17	1.55	30	113	0.31	0.13
B00292555	0.270	15	0.27	2.34	83	287	0.60	0.26
B00292556	0.115	<5	0.20	1.45	44	171	0.40	0.21
B00292557	0.635	<5	0.03	1.73	12	85	0.12	0.27
B00292558	0.395	<5	0.03	1.65	27	74	0.19	0.21
B00292559	0.355	<5	0.03	1.96	16	79	0.13	0.30
B00292560	0.110	<5	<0.01	0.02	<1	<5	<0.02	<0.01
B00292561	0.330	<5	0.03	1.56	21	116	0.19	0.26
B00292562	0.170	<5	0.23	2.48	35	190	0.55	0.28
B00292563	0.235	<5	0.03	2.69	58	108	0.30	0.18
B00292564	0.110	<5	0.40	2.89	106	176	0.74	0.61
B00292565	0.340	<5	0.04	2.48	62	123	0.24	0.33
B00292566	0.275	I.S.	0.08	0.52	12	263	0.24	0.53
B00292567	0.330	<5	0.02	2.80	8	142	0.16	0.45
B00292568	0.270	<5	0.03	0.97	14	48	0.34	0.07
B00292569	0.090	<5	0.09	0.58	<1	50	0.05	0.24
B00292571	0.265	<5	0.06	3.03	9	257	0.54	0.65
B00292572	0.225	5	0.22	2.51	52	224	0.95	0.42
B00292573	0.165	<5	0.15	2.02	32	170	0.38	0.75
B00292574	0.345	<5	0.07	2.61	63	181	0.61	0.47
B00292575	0.360	<5	0.05	2.31	52	124	0.53	0.35
B00292576	0.340	<5	0.05	2.04	29	66	0.46	0.12
B00292577	0.205	<5	0.08	3.23	127	165	0.33	0.71
B00292578	0.270	<5	0.04	2.65	23	135	0.19	0.25
B00292579	0.130	<5	0.05	2.20	17	129	0.20	0.30
B00292580	0.170	<5	0.17	3.38	35	208	0.46	0.42
B00292581	0.315	<5	0.08	2.16	55	119	0.42	0.31
B00292582	0.345	<5	0.04	2.37	42	155	0.41	0.37
B00292583	0.220	7	0.22	1.90	49	302	0.33	0.69
B00292584	0.300	<5	0.10	0.66	3	51	0.15	0.31
B00292585	0.125	<5	0.25	2.47	14	207	0.51	0.60
B00292586	0.180	<5	0.52	1.66	15	143	1.37	0.69
B00292587	0.400	<5	0.16	1.86	18	156	0.34	0.33

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292588	0.205	<5	0.12	0.59	1	43	0.06	0.17
B00292589	0.380	<5	0.11	1.59	5	199	0.29	0.43
B00292590	0.320	<5	0.07	1.32	8	152	0.29	0.44
B00292591	0.115	<5	0.59	2.80	61	229	0.45	1.00
B00292592	0.470	<5	0.05	2.09	17	176	0.19	0.40
B00292593	0.385	<5	0.16	2.00	56	166	1.19	0.69
B00292594	0.395	<5	0.02	2.09	46	47	0.36	0.21
B00292595	0.080	<5	0.05	2.71	21	277	0.16	1.15
B00292596	0.355	<5	0.03	0.87	22	67	0.33	0.09
B00292597	0.215	<5	0.09	1.57	14	148	0.43	0.55
B00292598	0.225	<5	0.54	2.00	13	99	0.30	0.25
B00292599	0.180	<5	0.25	2.48	19	242	0.34	0.58
B00292600	0.580	<5	0.02	2.94	38	107	0.66	0.33
B00292601	0.240	<5	0.08	1.94	5	130	0.34	0.20
B00292602	0.340	<5	0.24	1.99	23	224	0.48	0.34
B00292603	0.390	<5	0.33	1.95	13	202	0.29	0.80
B00292604	0.480	<5	0.11	2.24	25	159	0.25	0.72
B00292605	0.365	<5	0.01	1.73	20	133	0.28	0.49
B00292606	0.315	<5	0.37	2.47	61	179	0.56	0.58
B00292607	0.160	<5	0.29	2.49	87	169	0.47	0.74
B00292608	0.350	<5	0.03	1.71	26	107	0.58	0.32
B00292609	0.185	<5	0.04	0.63	7	31	0.06	0.13
B00292610	0.220	<5	0.07	0.48	3	20	0.04	0.12
B00292611	0.415	<5	0.20	1.61	56	149	0.46	0.56
B00292612	0.470	<5	0.02	1.22	19	141	0.20	0.40
B00292613	0.290	<5	0.11	1.49	12	131	0.22	0.61
B00292614	0.025	I.S.	0.80	1.07	17	217	0.14	1.42
B00292615	0.305	<5	0.15	1.42	9	147	0.38	0.27
B00292616	0.325	<5	0.06	1.23	8	144	0.50	0.25
B00292617	0.065	<5	0.32	0.31	1	44	0.04	0.09
B00292618	0.335	<5	0.10	1.93	34	292	0.45	0.53
B00292619	0.130	<5	0.31	2.14	26	249	0.44	0.60
B00292620	0.335	<5	0.25	2.08	35	207	0.43	0.76
B00292621	0.190	<5	0.06	0.63	10	61	0.11	0.20
B00292622	0.165	5	0.17	1.32	28	89	0.27	0.32
B00292623	0.380	<5	0.02	2.51	36	114	0.44	0.44
*Std OREAS151B		67						
*Std OXK119		3700						
*Std OREAS151B		68						
*Blk BLANK		<5						

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Final : VC172742 Order: PO# BMC17-01010

Report File No.: 0000025097

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep B00292548		0.02	1.65	19	70	0.34	0.21
*Rep B00292579		0.06	2.20	16	127	0.20	0.30
*Rep B00292603		0.34	2.00	13	202	0.29	0.79
*Std OREAS920		0.10	2.47	4	72	0.63	0.31
*Std OREAS151B		0.55	2.52	32	67	0.41	1.32
*Std OREAS902		0.28	0.47	610	13	8.69	4.09
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep B00292557	7						
*Rep B00292600	6						
*Rep B00292612	<5						
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292547	0.40	62.7	18.9	66	35.0	5.86	9.7	0.02
B00292548	0.13	38.8	9.8	26	13.0	2.62	5.2	<0.01
B00292549	0.04	17.6	1.3	6	5.1	0.50	1.6	0.02
B00292550	0.02	9.34	1.0	5	2.4	0.38	0.7	<0.01
B00292551	0.16	74.3	6.6	25	13.9	2.48	5.4	0.02
B00292552	0.20	78.6	11.8	31	17.5	3.15	5.5	0.02
B00292553	0.14	97.9	7.4	23	19.9	2.70	5.1	0.04
B00292554	0.17	82.7	9.3	30	17.2	2.71	5.0	0.02
B00292555	0.22	107	13.9	44	28.3	4.70	8.0	0.04
B00292556	0.28	79.1	6.8	22	17.7	2.63	5.3	0.03
B00292557	0.14	45.9	11.5	26	14.0	2.90	5.2	<0.01
B00292558	0.15	44.9	10.3	22	12.1	2.77	4.9	<0.01
B00292559	0.15	54.9	13.7	40	15.1	3.40	6.0	<0.01
B00292560	<0.01	1.05	<0.1	<1	0.6	0.03	<0.1	<0.01
B00292561	0.09	55.2	9.7	33	10.6	2.65	5.3	<0.01
B00292562	0.17	93.4	17.3	51	20.4	4.23	8.2	0.03
B00292563	0.08	75.2	18.6	46	14.1	4.87	8.1	<0.01
B00292564	0.43	221	17.8	34	37.5	5.13	10.1	0.05
B00292565	0.19	68.1	18.6	36	18.0	5.23	8.3	<0.01
B00292566	0.50	72.0	30.5	6	11.1	1.71	1.8	0.02
B00292567	0.07	71.0	18.9	49	15.9	5.02	10.2	<0.01
B00292568	0.16	25.6	7.7	25	20.8	2.54	7.1	<0.01
B00292569	0.78	11.3	1.6	3	14.3	0.46	2.0	0.01
B00292571	0.40	44.8	22.7	43	42.8	6.28	10.0	<0.01
B00292572	1.19	90.1	21.3	47	63.4	6.14	8.8	0.02
B00292573	0.34	50.7	13.1	42	24.7	3.74	6.5	0.02
B00292574	0.10	55.9	20.2	48	16.4	5.77	10.5	<0.01
B00292575	0.12	104	17.6	47	24.7	4.61	7.9	<0.01
B00292576	0.14	35.7	12.0	42	15.5	4.62	9.4	<0.01
B00292577	0.10	71.6	26.5	73	20.2	6.31	9.6	<0.01
B00292578	0.13	10.7	21.4	77	22.0	5.01	7.9	0.02
B00292579	0.14	34.3	13.9	37	15.3	3.23	6.7	<0.01
B00292580	0.16	70.6	21.6	67	21.9	5.58	10.9	<0.01
B00292581	0.20	56.8	16.7	35	13.2	5.23	6.9	<0.01
B00292582	0.14	38.0	14.3	33	13.3	5.58	10.1	<0.01
B00292583	2.24	52.3	24.0	40	41.3	5.09	5.9	0.02
B00292584	0.18	15.8	2.8	10	15.8	1.05	2.6	<0.01
B00292585	1.26	79.1	20.2	45	53.3	4.78	7.9	0.02
B00292586	0.56	73.1	9.4	24	72.2	2.89	5.2	0.03
B00292587	0.49	60.1	10.9	30	27.8	3.66	6.1	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292588	0.18	8.47	1.7	2	10.6	0.57	2.1	<0.01
B00292589	0.23	37.6	6.9	22	12.9	3.49	7.6	<0.01
B00292590	0.44	19.4	8.8	26	17.9	2.46	4.7	<0.01
B00292591	1.45	40.1	22.6	82	35.6	4.70	6.8	0.04
B00292592	0.14	37.2	11.9	45	13.6	3.51	6.6	<0.01
B00292593	0.25	72.7	23.2	40	19.9	4.85	7.2	0.01
B00292594	0.10	36.5	12.0	40	9.3	3.91	7.0	<0.01
B00292595	0.12	46.5	25.0	50	21.0	6.39	8.8	0.03
B00292596	0.08	38.7	6.9	16	9.7	2.24	4.6	<0.01
B00292597	0.74	56.8	14.9	31	30.8	4.22	5.3	<0.01
B00292598	0.48	37.5	10.0	39	38.6	4.36	6.6	0.02
B00292599	1.14	47.8	19.7	42	46.6	4.99	8.2	0.02
B00292600	0.09	87.1	21.1	90	15.3	4.99	8.6	<0.01
B00292601	0.42	45.0	10.9	25	18.1	3.89	7.7	<0.01
B00292602	0.65	96.9	11.8	45	46.6	4.01	7.0	0.02
B00292603	0.63	43.9	10.1	47	28.1	3.91	6.6	0.03
B00292604	0.43	34.7	13.6	73	19.2	4.17	6.9	<0.01
B00292605	0.08	37.0	10.3	39	10.0	3.77	6.9	<0.01
B00292606	0.13	124	39.2	56	21.6	6.35	8.9	0.03
B00292607	0.18	59.5	18.7	57	22.9	5.50	9.1	0.03
B00292608	0.07	42.6	9.5	33	10.5	3.74	7.9	<0.01
B00292609	<0.01	9.12	1.5	5	5.0	0.67	2.1	<0.01
B00292610	<0.01	10.7	1.0	4	3.0	0.51	2.2	0.01
B00292611	0.12	50.3	11.7	29	15.6	3.95	6.2	<0.01
B00292612	0.10	34.0	5.5	12	6.7	2.77	6.6	<0.01
B00292613	0.46	42.0	9.8	35	24.9	2.49	4.9	<0.01
B00292614	2.18	116	4.3	12	26.4	1.15	2.7	0.05
B00292615	0.36	35.8	8.6	27	13.8	3.39	7.6	0.01
B00292616	0.31	48.6	8.2	21	18.4	3.03	5.6	<0.01
B00292617	0.48	8.79	1.2	5	4.5	0.38	1.0	0.02
B00292618	0.55	74.0	14.8	34	28.2	5.34	7.1	<0.01
B00292619	0.09	72.8	14.2	49	26.5	3.92	7.3	0.03
B00292620	0.79	78.3	16.3	50	36.6	3.94	7.1	0.02
B00292621	0.02	13.4	2.5	10	5.7	1.14	2.7	<0.01
B00292622	0.02	34.7	5.9	19	11.0	1.98	5.0	<0.01
B00292623	0.10	44.2	14.9	54	14.5	5.14	9.0	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep B00292548	0.13	38.8	9.6	26	12.9	2.64	4.9	<0.01
*Rep B00292579	0.14	34.4	13.5	37	14.7	3.30	6.7	<0.01
*Rep B00292603	0.67	43.3	10.0	47	28.0	3.94	6.6	0.02
*Std OREAS920	0.05	71.1	14.4	40	112	3.56	6.5	<0.01
*Std OREAS151B	0.59	16.3	11.3	25	1830	3.30	7.3	<0.01
*Std OREAS902	0.03	28.1	973	26	3020	3.04	1.2	0.06
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292547	0.61	39.2	1.44	634	2.42	<0.01	37.6	1090
B00292548	0.41	19.2	0.69	290	0.98	<0.01	18.0	830
B00292549	0.03	11.3	0.06	36	0.36	0.02	3.7	640
B00292550	0.02	5.9	0.03	18	0.26	0.02	3.3	250
B00292551	0.11	36.0	0.40	399	1.26	<0.01	15.9	1330
B00292552	0.39	31.7	0.68	497	1.38	<0.01	20.6	1180
B00292553	0.10	51.7	0.35	464	1.28	<0.01	16.6	1790
B00292554	0.27	35.0	0.54	440	1.29	<0.01	18.0	1180
B00292555	0.30	47.4	0.67	713	2.91	<0.01	27.7	1720
B00292556	0.17	40.5	0.37	332	1.69	<0.01	16.3	1310
B00292557	0.55	22.8	0.74	335	0.94	<0.01	15.8	990
B00292558	0.42	21.6	0.66	336	1.09	<0.01	15.5	950
B00292559	0.73	33.8	1.03	435	1.00	<0.01	21.9	1080
B00292560	<0.01	0.5	<0.01	<2	<0.05	<0.01	<0.5	<50
B00292561	0.45	27.4	0.76	280	0.96	<0.01	17.6	710
B00292562	0.59	44.9	1.11	999	1.72	<0.01	23.1	1050
B00292563	0.70	42.5	1.39	552	1.16	<0.01	21.4	660
B00292564	0.41	95.8	1.74	937	3.54	<0.01	29.8	1230
B00292565	0.57	43.4	1.21	636	1.30	<0.01	19.5	1310
B00292566	0.20	22.5	0.09	4140	3.80	<0.01	11.7	1580
B00292567	0.45	35.4	1.41	418	1.69	<0.01	24.6	1360
B00292568	0.09	12.7	0.41	277	2.46	<0.01	19.5	600
B00292569	0.09	7.2	0.14	49	0.26	0.03	4.4	420
B00292571	0.94	18.5	1.63	815	1.93	<0.01	25.9	1010
B00292572	0.70	50.9	1.27	756	6.64	<0.01	23.6	1070
B00292573	0.48	35.7	1.06	487	1.43	<0.01	23.7	1260
B00292574	0.35	28.8	1.30	693	1.61	<0.01	24.4	1220
B00292575	0.28	55.0	1.17	587	1.44	<0.01	27.9	930
B00292576	0.52	18.9	0.95	326	1.87	<0.01	20.7	350
B00292577	1.13	42.6	1.88	1080	1.73	<0.01	32.5	1130
B00292578	0.94	4.6	1.49	492	1.16	<0.01	20.5	580
B00292579	0.68	21.2	1.11	322	1.10	0.01	16.7	720
B00292580	1.09	49.4	1.81	485	1.74	<0.01	29.8	900
B00292581	0.76	28.2	1.06	609	1.18	<0.01	14.4	1070
B00292582	0.56	24.0	1.07	378	1.63	<0.01	15.6	800
B00292583	0.22	31.5	0.78	2290	3.75	<0.01	34.4	1650
B00292584	0.07	9.0	0.30	119	0.98	0.01	8.1	1090
B00292585	0.34	48.9	1.35	1200	2.16	<0.01	32.8	1160
B00292586	0.27	60.7	0.74	444	1.66	0.01	16.6	760
B00292587	0.15	28.6	0.75	423	2.88	<0.01	20.6	1320

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292588	0.05	5.6	0.11	149	0.48	0.02	3.9	500
B00292589	0.20	19.6	0.70	343	2.01	<0.01	10.0	970
B00292590	0.08	8.6	0.63	462	1.52	<0.01	16.2	870
B00292591	0.65	42.1	1.37	951	3.07	<0.01	40.6	880
B00292592	0.46	22.2	0.99	400	1.48	<0.01	18.5	640
B00292593	0.64	36.1	1.10	3520	1.73	<0.01	25.1	1420
B00292594	0.38	17.2	1.04	317	0.93	<0.01	18.1	880
B00292595	1.08	30.0	1.40	1080	1.59	<0.01	24.8	1070
B00292596	0.18	16.5	0.33	507	1.80	<0.01	9.9	580
B00292597	0.39	31.9	0.87	499	2.05	<0.01	26.2	1340
B00292598	0.08	21.4	0.91	539	3.65	<0.01	24.4	1700
B00292599	0.58	40.4	1.17	777	2.58	<0.01	32.9	1360
B00292600	0.98	47.0	1.70	635	1.07	<0.01	35.3	1140
B00292601	0.46	21.5	0.87	481	1.82	<0.01	13.0	1060
B00292602	0.21	83.2	0.82	419	2.14	0.01	28.3	980
B00292603	0.30	36.1	1.05	332	2.02	0.01	22.7	1190
B00292604	0.56	28.1	1.36	363	1.87	0.01	22.9	1270
B00292605	0.48	21.5	0.91	222	2.11	0.01	13.6	910
B00292606	0.50	72.3	1.11	845	3.59	0.01	19.6	1490
B00292607	0.71	52.0	1.39	764	2.17	0.02	24.2	1130
B00292608	0.39	21.3	0.89	310	1.55	0.02	13.3	590
B00292609	0.06	6.7	0.10	51	0.28	0.04	1.8	420
B00292610	0.03	6.1	0.05	30	0.23	0.04	1.2	410
B00292611	0.36	27.7	0.88	584	1.90	0.01	13.4	1150
B00292612	0.35	21.0	0.40	235	1.36	0.01	5.7	770
B00292613	0.27	25.4	0.67	310	1.18	0.02	21.5	1050
B00292614	0.06	97.7	0.14	941	2.31	0.02	11.1	2390
B00292615	0.18	20.7	0.61	683	1.96	0.01	11.6	1010
B00292616	0.25	21.3	0.54	404	1.63	0.01	9.1	780
B00292617	0.03	6.0	0.05	118	0.48	0.03	1.7	1030
B00292618	0.37	36.5	1.02	907	7.65	0.01	23.3	1120
B00292619	0.19	60.0	0.89	347	1.90	0.02	22.8	1010
B00292620	0.45	54.5	0.96	324	3.48	0.02	27.0	1330
B00292621	0.05	10.1	0.21	87	0.40	0.03	3.6	560
B00292622	0.14	28.6	0.43	223	1.15	0.04	7.8	630
B00292623	0.43	26.0	1.28	433	1.43	0.01	20.4	830

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep B00292548	0.41	19.1	0.69	291	0.97	<0.01	17.8	770
*Rep B00292579	0.69	21.8	1.12	324	1.13	0.01	17.3	720
*Rep B00292603	0.31	35.5	1.08	340	2.09	0.01	23.4	1200
*Std OREAS920	0.43	35.5	1.09	526	0.36	0.02	36.8	720
*Std OREAS151B	0.40	7.3	1.37	282	57.0	0.15	15.0	540
*Std OREAS902	0.23	13.0	2.14	469	12.4	<0.01	171	690
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292547	23.9	92.2	0.29	10.4	0.8	21.1	8.8	0.11
B00292548	12.0	45.8	0.34	2.7	0.5	9.7	7.4	0.13
B00292549	4.3	3.0	0.10	0.2	<0.3	4.8	<0.1	0.02
B00292550	1.5	1.1	<0.05	0.4	<0.3	4.9	0.3	0.02
B00292551	11.5	21.7	0.34	1.3	0.5	10.3	0.8	0.02
B00292552	18.4	46.2	0.37	4.1	0.6	14.9	10.3	0.11
B00292553	14.9	16.9	0.29	0.7	0.4	12.0	0.4	0.02
B00292554	15.2	33.9	0.32	1.8	0.5	8.9	1.3	0.05
B00292555	31.1	46.4	0.66	2.1	0.8	18.4	1.6	0.05
B00292556	16.8	27.8	0.46	0.9	0.6	12.5	0.4	0.03
B00292557	9.9	63.7	0.28	3.2	0.5	12.5	8.6	0.15
B00292558	19.2	52.7	0.32	2.9	0.5	9.7	7.6	0.10
B00292559	11.0	73.1	0.28	4.7	0.5	10.7	10.3	0.17
B00292560	0.4	0.3	<0.05	<0.1	<0.3	0.6	0.3	<0.01
B00292561	11.0	50.0	0.28	2.8	0.5	12.6	7.0	0.11
B00292562	30.8	69.6	0.25	5.3	0.7	16.2	5.3	0.12
B00292563	20.8	77.6	0.22	5.1	0.6	8.5	10.9	0.22
B00292564	34.9	44.8	0.12	8.5	0.9	25.4	20.5	0.10
B00292565	22.8	61.6	0.18	7.5	0.7	12.7	9.7	0.23
B00292566	20.5	24.8	0.10	2.3	<0.3	18.5	13.5	<0.01
B00292567	11.3	58.3	0.17	5.4	0.9	13.1	11.9	0.16
B00292568	17.3	18.0	0.34	1.8	0.7	6.0	3.4	0.16
B00292569	3.0	6.9	0.06	0.7	<0.3	10.1	0.6	0.03
B00292571	33.7	95.8	0.17	7.2	0.6	24.9	6.5	0.33
B00292572	51.8	74.8	0.16	8.1	0.7	16.8	13.1	0.19
B00292573	23.8	60.4	0.16	5.3	0.6	25.4	6.0	0.12
B00292574	30.8	48.3	0.29	10.7	1.2	19.0	6.5	0.21
B00292575	26.2	38.1	0.23	6.7	0.7	17.8	11.0	0.14
B00292576	15.7	73.9	0.35	3.6	0.8	6.4	6.5	0.38
B00292577	23.0	168	0.11	10.8	0.8	31.2	12.7	0.21
B00292578	7.4	89.2	0.13	3.3	0.5	6.8	1.1	0.41
B00292579	14.6	95.8	0.06	5.9	0.4	14.8	5.6	0.15
B00292580	29.3	164	0.08	11.4	0.8	19.3	12.6	0.23
B00292581	19.8	92.2	0.11	3.7	0.4	12.5	8.0	0.23
B00292582	24.6	59.3	0.19	8.2	1.2	15.2	6.2	0.29
B00292583	23.6	30.9	0.17	2.9	0.4	26.8	1.9	0.07
B00292584	14.7	7.3	0.07	1.2	<0.3	13.8	0.7	0.04
B00292585	57.9	42.9	0.19	5.2	0.5	28.8	5.5	0.10
B00292586	42.7	34.6	0.17	3.3	0.4	37.1	5.2	0.06
B00292587	31.2	21.8	0.19	3.0	0.5	16.3	1.5	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292588	6.3	4.7	<0.05	0.5	<0.3	8.9	0.3	0.02
B00292589	21.2	31.4	0.11	2.4	0.7	18.3	2.0	0.12
B00292590	27.6	10.9	0.14	1.2	0.3	21.1	0.6	0.06
B00292591	33.2	112	0.14	6.4	0.6	35.7	8.7	0.11
B00292592	17.1	50.7	0.08	3.1	0.6	14.8	4.8	0.17
B00292593	42.2	80.5	0.15	7.6	0.7	29.8	9.8	0.15
B00292594	18.6	47.7	0.18	3.6	0.7	8.8	6.2	0.17
B00292595	12.9	143	0.14	11.4	0.5	36.4	6.1	0.16
B00292596	13.5	29.4	0.27	0.9	0.6	7.2	0.5	0.06
B00292597	37.4	49.3	0.12	5.4	0.4	22.8	8.5	0.10
B00292598	45.2	14.3	0.19	1.6	0.3	11.1	0.5	0.03
B00292599	28.8	67.8	0.19	7.0	0.8	22.4	4.1	0.15
B00292600	30.5	120	0.18	6.4	0.7	11.8	10.3	0.25
B00292601	23.8	56.8	0.13	3.1	0.6	9.3	1.8	0.16
B00292602	40.8	29.3	0.34	4.1	0.6	18.3	2.6	0.09
B00292603	22.1	44.3	0.20	4.1	0.5	30.8	2.9	0.11
B00292604	17.4	82.3	0.09	5.3	0.6	22.9	8.2	0.21
B00292605	21.6	71.6	0.14	4.5	0.7	19.3	8.7	0.17
B00292606	29.0	123	0.21	10.3	0.8	25.9	14.3	0.18
B00292607	27.6	119	0.13	8.2	0.7	29.6	10.9	0.18
B00292608	16.2	54.5	0.14	3.7	0.8	13.5	6.1	0.16
B00292609	2.8	8.3	<0.05	0.7	<0.3	8.9	0.5	0.03
B00292610	2.5	2.8	<0.05	0.4	<0.3	8.8	0.1	0.03
B00292611	20.4	49.9	0.08	5.5	0.6	23.5	9.6	0.16
B00292612	11.8	82.9	0.07	2.5	1.1	21.3	13.0	0.12
B00292613	17.9	30.1	0.15	2.6	0.4	22.1	2.0	0.10
B00292614	11.6	5.2	0.18	0.7	<0.3	52.5	0.6	0.01
B00292615	36.3	31.6	0.28	1.8	0.8	14.2	1.3	0.13
B00292616	28.3	31.1	0.14	2.2	0.5	13.0	4.1	0.14
B00292617	4.6	5.0	0.07	0.1	<0.3	6.6	<0.1	<0.01
B00292618	32.0	42.4	0.16	4.6	0.6	21.1	7.4	0.18
B00292619	24.6	28.6	0.16	4.8	0.6	28.8	5.7	0.10
B00292620	27.4	53.0	0.14	6.1	0.6	28.8	9.6	0.13
B00292621	6.1	7.8	<0.05	1.1	<0.3	12.7	0.6	0.04
B00292622	11.1	24.3	0.08	2.3	<0.3	18.4	2.3	0.08
B00292623	19.5	50.7	0.16	5.4	0.8	17.4	7.6	0.23

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep B00292548	11.7	45.7	0.33	2.7	0.5	9.7	7.6	0.12
*Rep B00292579	14.5	96.9	0.06	5.7	0.4	14.7	5.7	0.15
*Rep B00292603	21.7	44.7	0.19	4.1	0.5	31.0	2.9	0.11
*Std OREAS920	19.7	23.9	0.55	2.8	1.1	16.9	16.0	0.12
*Std OREAS151B	40.5	20.4	0.53	9.1	1.1	36.3	2.5	0.07
*Std OREAS902	9.9	8.5	0.82	2.6	<0.3	21.3	5.0	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn	@Au
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GO_FAG303
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	g/t
B00292547	0.58	5.57	107	0.2	40.0	197	N.A.
B00292548	0.33	1.59	46	0.2	10.1	56	N.A.
B00292549	0.04	0.95	11	<0.1	4.60	8	N.A.
B00292550	<0.02	0.60	12	<0.1	2.23	6	N.A.
B00292551	0.10	1.84	28	0.3	11.2	47	N.A.
B00292552	0.30	2.62	53	0.3	14.1	62	N.A.
B00292553	0.12	4.19	27	0.3	20.6	41	N.A.
B00292554	0.21	3.77	37	0.3	15.5	49	N.A.
B00292555	0.34	7.16	79	0.6	24.2	83	N.A.
B00292556	0.17	4.76	37	0.3	21.7	52	N.A.
B00292557	0.39	1.86	50	0.2	11.3	54	N.A.
B00292558	0.40	2.59	48	0.3	12.8	52	N.A.
B00292559	0.44	2.25	63	0.2	13.6	58	N.A.
B00292560	<0.02	0.09	2	<0.1	0.63	1	N.A.
B00292561	0.32	1.58	43	0.2	11.8	49	N.A.
B00292562	0.45	3.95	71	0.3	21.9	62	N.A.
B00292563	0.44	1.09	89	0.2	7.59	75	N.A.
B00292564	0.64	15.6	67	0.1	48.6	115	N.A.
B00292565	0.45	1.78	106	0.2	14.3	90	N.A.
B00292566	0.23	6.94	14	<0.1	16.5	52	N.A.
B00292567	0.36	1.79	93	0.2	14.1	107	N.A.
B00292568	0.14	0.94	62	0.2	3.85	108	N.A.
B00292569	0.06	0.75	11	<0.1	2.99	63	N.A.
B00292571	0.63	1.19	124	0.1	8.97	279	N.A.
B00292572	0.59	6.17	95	0.1	21.9	300	N.A.
B00292573	0.39	4.78	68	0.1	20.5	127	N.A.
B00292574	0.42	2.11	135	0.2	13.8	90	N.A.
B00292575	0.32	2.65	74	0.2	14.0	92	N.A.
B00292576	0.45	0.93	104	0.3	6.73	67	N.A.
B00292577	0.96	11.7	106	0.2	41.5	89	N.A.
B00292578	0.37	0.46	114	0.2	3.38	59	N.A.
B00292579	0.56	4.90	70	0.1	17.1	63	N.A.
B00292580	0.98	11.7	122	0.2	40.4	109	N.A.
B00292581	0.52	1.19	95	0.2	7.03	79	N.A.
B00292582	0.50	1.64	131	0.2	11.6	75	N.A.
B00292583	0.28	7.64	65	0.1	28.4	259	N.A.
B00292584	0.07	1.96	28	<0.1	5.09	93	N.A.
B00292585	0.34	5.12	72	0.1	23.8	478	N.A.
B00292586	0.27	10.2	38	0.1	27.5	244	N.A.
B00292587	0.23	8.83	56	0.1	13.3	235	N.A.

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Element	Tl	U	V	W	Y	Zn	@Au
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GO_FAG303
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	g/t
B00292588	0.04	0.78	8	<0.1	4.22	53	N.A.
B00292589	0.20	2.07	63	<0.1	6.78	134	N.A.
B00292590	0.14	0.79	40	0.1	3.46	136	N.A.
B00292591	0.62	15.2	71	0.2	41.0	285	N.A.
B00292592	0.31	3.16	67	0.2	15.6	92	N.A.
B00292593	0.56	2.96	82	0.2	19.2	85	N.A.
B00292594	0.38	0.89	63	0.2	7.75	51	N.A.
B00292595	0.78	4.79	121	0.2	34.5	77	N.A.
B00292596	0.15	1.31	40	0.2	5.73	37	N.A.
B00292597	0.36	2.48	59	0.1	16.6	312	N.A.
B00292598	0.24	2.23	66	0.1	9.44	227	N.A.
B00292599	0.48	13.4	101	0.1	35.5	252	N.A.
B00292600	0.72	1.75	91	0.2	14.7	78	N.A.
B00292601	0.33	1.39	72	<0.1	7.46	139	N.A.
B00292602	0.28	26.0	60	0.4	43.3	317	N.A.
B00292603	0.30	36.4	64	0.1	19.8	215	N.A.
B00292604	0.40	9.45	75	0.2	25.6	196	N.A.
B00292605	0.35	2.02	68	0.2	10.2	70	N.A.
B00292606	0.48	12.1	109	0.3	31.9	80	N.A.
B00292607	0.70	12.3	93	0.2	40.1	91	N.A.
B00292608	0.30	1.51	55	0.2	9.51	48	N.A.
B00292609	0.07	0.82	15	<0.1	4.06	9	N.A.
B00292610	0.05	0.77	11	<0.1	3.30	6	N.A.
B00292611	0.34	5.24	62	0.2	15.6	56	N.A.
B00292612	0.25	2.23	24	0.1	14.1	55	N.A.
B00292613	0.23	7.63	42	0.1	14.8	123	N.A.
B00292614	0.12	24.5	15	<0.1	37.9	129	N.A.
B00292615	0.19	1.58	58	0.2	8.08	120	N.A.
B00292616	0.25	1.30	48	0.1	9.88	123	N.A.
B00292617	0.04	0.93	6	<0.1	1.84	16	N.A.
B00292618	0.34	4.54	66	0.1	15.1	205	N.A.
B00292619	0.35	12.3	56	0.2	39.1	132	N.A.
B00292620	0.39	11.8	67	0.2	40.0	136	N.A.
B00292621	0.11	1.91	21	<0.1	4.81	16	N.A.
B00292622	0.23	7.45	36	0.1	17.0	35	N.A.
B00292623	0.43	1.76	88	0.2	12.9	81	N.A.

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Final : VC172742 Order: PO# BMC17-01010

Report File No.: 0000025097

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep B00292548	0.31	1.61	47	0.2	9.95	57
*Rep B00292579	0.57	4.86	70	0.1	17.2	63
*Rep B00292603	0.30	36.1	63	0.3	20.1	216
*Std OREAS920	0.16	2.23	24	0.6	18.1	107
*Std OREAS151B	0.13	0.65	139	0.6	10.9	243
*Std OREAS902	0.25	2.22	9	2.2	7.42	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172743
[Report File No.: 0000024562]

Date: September 12, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01010
Project No.: KZK
Samples: 58
Received: Aug 28, 2017
Pages: Page 1 to 11
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
58	G_LOG02	Pre-preparation processing, sorting, logging, boxing
58	G_WGH79	Weighing of samples and reporting of weights
58	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
58	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292624	0.325	<5	0.05	3.34	29	237	0.23	0.62
B00292625	0.465	<5	0.03	1.45	75	51	0.55	0.09
B00292626	0.105	5	0.05	2.69	41	686	0.15	2.01
B00292627	0.170	<5	0.04	0.37	3	42	0.10	0.07
B00292628	0.320	<5	0.02	0.44	6	31	0.21	0.03
B00292629	0.310	<5	0.05	1.08	24	181	0.32	0.19
B00292630	0.340	<5	0.02	4.17	10	117	0.07	0.42
B00292631	0.115	17	1.05	1.61	69	241	0.85	0.98
B00292632	0.115	<5	0.38	2.44	29	265	0.44	0.77
B00292633	0.150	<5	0.18	1.92	20	203	0.23	0.70
B00292634	0.150	6	0.24	1.01	12	156	0.35	0.51
B00292635	0.325	<5	0.11	1.01	10	167	0.58	0.25
B00292636	0.575	<5	0.10	2.32	60	116	0.36	0.55
B00292637	0.200	<5	0.16	2.17	46	184	0.35	0.71
B00292638	0.425	<5	0.15	2.57	128	152	0.62	0.54
B00292639	0.195	<5	0.11	0.53	5	35	0.07	0.12
B00292640	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
B00292641	0.295	<5	0.05	1.34	7	85	0.12	0.23
B00292642	0.325	<5	0.04	0.98	24	222	0.58	0.37
B00292643	0.525	<5	0.17	2.45	7	206	0.17	0.59
B00292644	0.415	<5	0.20	2.84	22	163	0.25	1.14
B00292645	0.495	<5	0.13	2.25	15	99	0.16	0.52
B00292646	0.435	<5	0.15	2.31	119	268	0.75	0.68
B00292647	0.405	<5	0.06	2.22	113	258	0.32	0.69
B00292648	0.480	<5	0.13	2.36	116	186	0.56	0.57
B00292649	0.215	<5	0.17	2.23	23	164	0.40	0.66
B00292650	0.560	<5	0.65	1.74	34	213	0.35	0.83
B00292651	0.105	<5	0.40	0.82	6	189	0.21	2.44
B00292652	0.375	<5	0.39	0.63	8	88	0.28	0.62
B00292653	0.415	<5	0.51	1.05	19	177	0.32	0.70
B00292654	0.340	<5	0.31	2.40	123	96	0.14	1.47
B00292655	0.370	<5	0.17	1.61	14	87	0.29	0.26
B00292656	0.555	5	0.35	2.16	20	100	0.41	0.50
B00292657	0.210	5	0.14	1.31	6	117	0.28	0.35
B00292658	0.615	<5	0.14	1.38	10	202	0.30	0.31
B00292659	0.310	<5	0.12	1.30	12	201	0.26	0.25
B00292660	0.445	<5	0.10	1.33	4	103	0.25	0.28
B00292661	0.215	12	5.24	1.25	26	182	0.24	0.07
B00292662	0.495	11	6.32	1.80	65	337	0.78	0.20
B00292663	0.245	<5	0.29	0.53	40	107	0.48	0.08

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292664	0.315	7	0.16	1.26	94	87	0.29	0.11
B00292665	0.205	<5	0.16	0.43	6	49	0.27	0.06
B00292666	0.405	<5	0.05	0.76	10	84	0.23	0.04
B00292667	0.345	5	0.11	0.66	9	68	0.24	0.05
B00292668	0.280	<5	0.31	0.69	20	90	0.30	0.10
B00292669	0.520	<5	0.05	1.86	6	126	0.25	0.34
B00292670	0.190	<5	0.13	1.08	27	430	0.39	0.06
B00292671	0.300	<5	0.06	1.30	4	95	0.23	0.17
B00292672	0.435	<5	0.10	0.74	10	77	0.24	0.15
B00292673	0.130	8	0.26	0.65	2	230	0.10	0.26
B00292674	0.155	28	0.28	1.47	12	229	0.37	0.48
B00292675	0.295	<5	0.20	0.45	14	63	0.82	0.20
B00292676	0.430	<5	0.54	1.66	25	125	0.23	0.36
B00292677	0.385	<5	0.88	1.38	42	132	0.31	0.37
B00292678	0.475	6	0.50	1.09	26	119	0.49	0.30
B00292679	0.170	6	6.08	0.89	32	116	1.11	0.14
B00292680	0.110	<5	0.01	0.01	<1	<5	<0.02	<0.01
B00292681	0.380	<5	0.04	0.51	3	191	0.13	0.03
*Std OREAS151B		66						
*Std OXK119		3740						
*Std AMIS0474		187						
*Blk BLANK		<5						
*Blk BLANK		<5						
*Rep B00292644			0.21	2.80	20	157	0.23	1.12
*Rep B00292670			0.15	1.13	29	441	0.40	0.06
*Rep B00292679			6.30	0.91	34	121	1.13	0.14
*Std OREAS920			0.10	2.42	5	74	0.66	0.30
*Std OREAS151B			0.54	2.57	34	70	0.42	1.35
*Std OREAS902			0.28	0.47	590	14	8.56	3.82
*Blk BLANK			<0.01	<0.01	<1	<5	<0.02	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292624	0.05	37.4	28.7	56	20.1	6.82	9.4	<0.01
B00292625	0.08	36.3	10.0	29	12.1	3.35	8.3	<0.01
B00292626	0.19	11.9	27.4	33	29.3	4.98	8.5	0.02
B00292627	0.09	4.82	3.3	7	3.9	0.85	3.1	0.01
B00292628	0.03	44.8	2.5	7	4.4	0.77	5.0	0.01
B00292629	0.11	45.6	7.4	21	9.0	2.19	6.0	0.02
B00292630	0.05	21.3	27.0	134	7.8	5.04	6.3	<0.01
B00292631	0.11	95.8	5.4	31	20.1	3.48	7.3	0.04
B00292632	0.57	89.2	15.3	44	29.0	3.88	6.6	0.04
B00292633	0.58	36.2	8.4	29	19.4	3.15	6.9	0.01
B00292634	0.63	34.9	6.1	11	12.4	1.83	4.5	0.02
B00292635	0.27	44.6	4.1	14	9.1	1.54	4.2	0.02
B00292636	0.15	73.9	17.6	43	21.4	4.62	7.6	<0.01
B00292637	0.08	52.2	13.1	40	16.3	3.84	6.6	0.02
B00292638	0.15	78.6	17.0	51	17.4	5.18	8.0	0.01
B00292639	0.01	12.4	2.0	6	4.2	0.76	2.2	0.02
B00292640	<0.01	1.04	0.1	2	0.8	0.03	<0.1	<0.01
B00292641	0.03	13.1	6.9	21	5.7	2.18	4.3	<0.01
B00292642	0.11	35.6	6.7	19	11.3	2.31	7.2	<0.01
B00292643	0.41	29.9	31.6	60	98.1	5.01	6.5	<0.01
B00292644	1.32	54.3	35.1	67	66.8	4.88	7.9	<0.01
B00292645	0.29	31.7	17.8	50	43.4	3.96	6.0	<0.01
B00292646	0.66	61.1	15.8	56	34.9	4.29	7.1	0.02
B00292647	0.19	48.9	20.3	37	24.0	4.18	6.7	0.02
B00292648	0.13	71.0	17.7	42	24.9	4.42	7.4	<0.01
B00292649	0.12	65.8	14.9	38	15.2	3.21	7.0	0.02
B00292650	0.33	58.7	8.9	26	19.5	2.68	4.7	0.04
B00292651	0.96	41.5	8.3	15	48.9	2.16	2.5	0.09
B00292652	0.75	56.9	14.7	14	45.9	4.01	2.4	0.09
B00292653	0.74	64.8	17.9	24	92.7	5.71	3.6	0.08
B00292654	0.67	62.3	56.8	276	85.6	6.82	7.8	0.06
B00292655	0.28	33.8	16.0	50	48.8	3.56	6.8	0.02
B00292656	0.29	39.8	14.9	42	55.6	4.33	6.8	0.01
B00292657	0.26	53.6	8.7	33	14.8	2.73	5.1	0.02
B00292658	0.59	75.1	10.6	31	23.9	2.47	4.5	0.01
B00292659	0.21	47.8	7.7	38	10.2	2.23	4.9	0.03
B00292660	0.25	48.8	7.6	35	12.5	1.66	4.3	0.03
B00292661	0.83	120	49.0	10	22.6	1.36	3.7	1.14
B00292662	0.99	74.8	10.9	22	33.2	4.00	6.4	1.10
B00292663	0.30	53.1	3.9	17	11.1	1.41	2.2	0.10

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292664	0.35	33.2	6.5	33	11.4	2.07	6.0	0.02
B00292665	0.29	25.9	1.9	10	7.3	0.88	2.7	0.04
B00292666	0.43	37.4	4.8	15	11.7	1.64	2.5	0.03
B00292667	0.59	31.9	3.4	17	8.8	1.30	3.1	0.08
B00292668	0.29	47.9	4.5	13	16.1	1.41	2.1	0.05
B00292669	0.21	32.4	11.8	54	20.9	2.95	6.2	0.01
B00292670	3.62	29.7	34.6	20	16.5	1.91	4.6	0.03
B00292671	0.34	19.0	7.4	36	11.9	2.71	6.3	0.04
B00292672	0.33	39.3	5.2	25	15.4	1.92	3.6	0.03
B00292673	0.37	60.4	2.8	25	9.3	0.87	2.7	0.04
B00292674	3.84	78.4	9.3	29	42.9	2.09	4.8	0.06
B00292675	0.80	138	11.7	8	19.7	1.38	1.4	0.03
B00292676	3.69	60.6	12.2	40	21.2	2.61	4.9	0.09
B00292677	2.61	67.9	12.8	45	32.4	2.37	4.1	0.19
B00292678	0.96	42.8	10.4	37	14.3	1.77	3.9	0.08
B00292679	0.26	66.6	2.8	20	59.3	1.68	3.0	0.38
B00292680	<0.01	1.21	0.1	<1	0.8	0.03	<0.1	<0.01
B00292681	0.21	23.9	9.1	19	30.6	1.42	2.4	<0.01
*Rep B00292644	1.30	51.5	34.9	66	65.4	4.88	8.0	<0.01
*Rep B00292670	3.67	31.1	35.2	21	16.8	2.00	4.8	0.02
*Rep B00292679	0.27	68.9	2.9	21	58.8	1.73	3.1	0.39
*Std OREAS920	0.06	71.3	14.7	41	104	3.52	6.2	<0.01
*Std OREAS151B	0.60	16.8	11.8	28	1800	3.33	7.1	0.02
*Std OREAS902	0.02	28.2	965	20	2990	2.96	1.2	0.04
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292624	1.35	23.7	1.85	851	1.46	0.02	19.5	1140
B00292625	0.49	15.1	0.72	345	1.55	0.01	13.8	320
B00292626	0.46	6.4	1.59	999	0.66	0.02	27.0	1780
B00292627	0.15	2.4	0.15	323	1.06	0.02	3.0	250
B00292628	0.06	22.6	0.06	48	0.95	<0.01	4.4	140
B00292629	0.28	24.0	0.41	1070	2.63	0.01	9.5	840
B00292630	1.06	13.2	2.62	725	0.48	0.02	21.9	1300
B00292631	0.18	77.3	0.41	155	4.87	0.01	11.5	1690
B00292632	0.25	69.4	0.90	556	2.39	0.02	31.1	1100
B00292633	0.20	31.0	0.78	370	2.02	0.02	17.3	1180
B00292634	0.10	21.7	0.19	732	2.72	0.02	6.5	1890
B00292635	0.11	25.2	0.25	280	1.79	0.01	6.3	1350
B00292636	0.96	40.1	1.39	619	1.81	0.01	23.6	1410
B00292637	0.33	38.1	1.08	336	1.72	0.01	20.2	1160
B00292638	0.66	46.3	1.30	555	3.84	0.02	24.2	1330
B00292639	0.06	8.9	0.13	90	0.56	0.04	2.9	490
B00292640	<0.01	0.5	<0.01	<2	<0.05	0.01	0.6	<50
B00292641	0.24	9.6	0.53	221	0.92	0.03	7.8	570
B00292642	0.36	17.3	0.41	252	3.98	0.02	11.4	310
B00292643	0.53	18.4	1.73	896	1.51	0.01	74.9	1550
B00292644	0.54	27.8	2.12	1020	0.93	0.01	75.3	1410
B00292645	0.40	19.2	1.62	430	0.73	0.01	45.8	1060
B00292646	0.61	40.5	1.26	420	2.70	0.02	37.6	1330
B00292647	0.76	22.8	1.15	638	2.03	0.02	25.3	1380
B00292648	0.75	44.1	1.29	535	2.74	0.01	22.0	1320
B00292649	0.58	45.6	1.04	236	1.16	0.02	17.3	1100
B00292650	0.26	35.9	0.69	237	2.04	0.02	15.7	1680
B00292651	0.05	43.3	0.34	860	1.37	0.01	28.7	1460
B00292652	0.05	30.5	0.23	1340	2.13	0.01	35.2	890
B00292653	0.10	46.6	0.52	2130	3.91	0.01	52.2	1090
B00292654	0.04	41.6	2.00	2050	0.88	0.01	208	1710
B00292655	0.10	14.6	1.00	494	2.45	0.01	44.1	1170
B00292656	0.10	17.2	1.30	574	1.69	0.01	37.1	1380
B00292657	0.13	26.4	0.60	179	0.54	0.02	18.0	1000
B00292658	0.27	38.8	0.66	426	1.72	0.01	27.1	1000
B00292659	0.20	24.4	0.69	163	1.26	0.02	21.7	790
B00292660	0.21	23.4	0.73	180	0.46	0.02	19.4	910
B00292661	0.04	36.7	0.07	7440	3.48	0.04	4.5	1100
B00292662	0.34	43.7	0.67	1710	3.99	0.02	13.6	750
B00292663	0.16	28.7	0.15	172	2.88	0.01	10.1	490

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292664	0.20	17.5	0.64	206	1.12	0.02	16.1	490
B00292665	0.07	13.0	0.07	99	2.05	0.01	5.0	570
B00292666	0.14	18.8	0.20	269	1.75	0.01	12.1	460
B00292667	0.08	16.1	0.20	133	1.39	0.01	9.8	510
B00292668	0.09	24.3	0.21	125	2.57	0.01	13.8	510
B00292669	0.38	15.9	1.05	312	0.99	0.02	29.1	1250
B00292670	0.10	8.1	0.22	5520	2.94	0.02	10.3	930
B00292671	0.25	9.4	0.58	206	1.83	0.02	17.4	600
B00292672	0.12	19.4	0.33	172	1.82	0.02	14.9	630
B00292673	0.06	41.1	0.19	61	0.84	0.03	8.4	960
B00292674	0.11	53.4	0.47	599	2.64	0.02	17.5	1190
B00292675	0.11	50.0	0.06	707	2.56	0.01	21.8	530
B00292676	0.17	20.5	0.74	579	1.14	0.02	44.3	1090
B00292677	0.08	39.8	0.51	563	2.01	0.02	31.5	980
B00292678	0.08	28.0	0.53	430	1.90	0.01	22.0	780
B00292679	0.04	65.7	0.26	77	3.61	0.02	14.7	970
B00292680	<0.01	0.7	<0.01	<2	0.07	0.01	<0.5	<50
B00292681	0.11	9.1	0.24	1300	1.26	0.01	22.6	280
*Rep B00292644	0.55	27.3	2.12	1010	0.93	0.01	74.0	1400
*Rep B00292670	0.11	8.2	0.23	5710	3.11	0.02	10.9	980
*Rep B00292679	0.04	67.1	0.27	78	3.78	0.02	15.2	1010
*Std OREAS920	0.40	35.1	1.09	510	0.38	0.03	37.9	730
*Std OREAS151B	0.42	7.6	1.55	289	57.1	0.16	15.9	550
*Std OREAS902	0.23	13.1	2.22	449	11.9	0.01	165	660
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292624	12.9	163	0.11	6.6	0.5	23.7	5.2	0.31
B00292625	10.9	66.6	0.21	2.9	1.0	7.2	4.6	0.29
B00292626	4.2	39.4	0.13	3.7	0.4	54.4	1.0	0.23
B00292627	3.5	13.6	0.09	0.6	0.3	4.7	0.1	0.17
B00292628	5.4	11.8	0.18	0.9	1.2	4.3	1.6	0.06
B00292629	13.3	48.7	0.25	1.2	0.9	14.0	0.3	0.07
B00292630	12.6	72.2	0.05	2.8	<0.3	8.3	2.1	0.37
B00292631	44.6	27.9	0.24	4.2	0.7	41.1	2.9	0.05
B00292632	29.6	41.7	0.17	4.0	0.6	31.7	3.4	0.07
B00292633	14.8	30.3	0.19	2.5	0.7	27.5	2.2	0.09
B00292634	29.5	26.7	0.18	0.4	0.4	23.4	0.3	<0.01
B00292635	23.5	20.8	0.16	0.6	0.5	15.6	0.4	0.02
B00292636	23.2	131	0.13	6.9	0.6	18.8	13.1	0.21
B00292637	24.0	59.6	0.12	5.2	0.6	30.0	5.3	0.13
B00292638	31.6	96.7	0.17	6.8	0.7	24.6	11.6	0.16
B00292639	3.5	4.4	0.06	1.0	<0.3	8.4	0.2	0.03
B00292640	0.5	<0.2	<0.05	<0.1	<0.3	0.6	0.2	<0.01
B00292641	6.8	32.3	0.06	1.7	<0.3	13.2	0.5	0.12
B00292642	21.6	53.8	0.45	2.2	1.3	13.4	2.5	0.26
B00292643	15.0	47.6	0.13	5.6	<0.3	22.0	4.7	0.15
B00292644	47.5	54.1	0.15	5.2	<0.3	43.7	7.7	0.13
B00292645	21.8	42.2	0.11	3.7	<0.3	24.4	6.3	0.12
B00292646	17.1	100	0.16	5.5	0.6	22.7	7.4	0.15
B00292647	14.8	154	0.13	4.4	0.6	25.2	6.0	0.18
B00292648	21.7	121	0.12	6.8	0.7	21.5	12.3	0.19
B00292649	22.2	84.5	0.08	5.6	0.5	27.9	7.1	0.15
B00292650	20.1	35.6	0.15	2.2	0.4	30.6	1.3	0.06
B00292651	18.9	7.2	0.31	1.7	<0.3	58.7	3.2	0.02
B00292652	23.9	5.9	0.27	2.3	<0.3	19.1	5.3	0.02
B00292653	23.3	12.7	0.25	3.9	<0.3	22.2	7.6	0.02
B00292654	25.8	5.4	0.18	14.9	<0.3	42.7	4.2	0.04
B00292655	16.4	15.7	0.26	3.8	0.7	29.5	2.7	0.09
B00292656	27.0	13.8	0.25	4.9	<0.3	25.2	7.2	0.06
B00292657	16.1	14.1	0.21	3.1	0.8	12.8	7.4	0.09
B00292658	22.5	24.8	0.49	3.8	0.5	15.0	15.5	0.10
B00292659	18.9	18.3	0.57	3.7	0.7	9.4	8.1	0.12
B00292660	19.1	23.3	0.30	3.0	0.6	10.1	9.2	0.12
B00292661	2670	7.0	3.11	0.9	<0.3	5.2	0.9	0.02
B00292662	569	40.4	9.46	2.9	1.3	10.1	14.4	0.08
B00292663	34.8	14.3	2.18	0.8	0.3	7.2	4.1	0.04

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292664	14.1	21.2	0.27	2.8	1.0	5.9	3.1	0.11
B00292665	10.8	8.8	0.38	0.6	0.5	3.9	0.5	0.03
B00292666	10.9	18.0	0.64	0.7	<0.3	4.6	1.0	0.03
B00292667	10.0	11.2	0.73	0.7	0.4	5.0	0.6	0.04
B00292668	32.6	10.0	1.69	1.3	<0.3	7.9	10.1	0.03
B00292669	11.6	37.9	0.19	4.0	0.8	11.7	6.5	0.16
B00292670	49.7	19.1	0.65	0.5	0.7	8.2	0.2	0.04
B00292671	16.3	46.9	0.23	2.4	1.0	9.4	2.2	0.18
B00292672	14.9	14.6	0.68	1.7	0.5	9.5	3.1	0.07
B00292673	5.5	6.5	0.16	0.6	<0.3	16.2	0.2	0.04
B00292674	22.4	20.4	0.44	1.8	0.6	18.0	1.7	0.05
B00292675	20.6	9.2	0.35	0.9	<0.3	6.8	24.2	0.01
B00292676	51.1	22.6	1.62	3.3	0.7	12.3	6.7	0.10
B00292677	117	10.6	1.42	3.6	0.3	12.9	5.0	0.05
B00292678	45.1	11.7	0.58	2.2	0.6	10.7	4.6	0.05
B00292679	485	6.1	2.42	1.1	0.3	9.6	1.7	0.02
B00292680	0.8	<0.2	<0.05	<0.1	<0.3	0.6	0.3	<0.01
B00292681	12.9	9.9	0.10	1.2	<0.3	6.4	1.4	0.03
*Rep B00292644	46.2	53.6	0.14	5.1	<0.3	43.6	7.6	0.13
*Rep B00292670	50.4	20.5	0.65	0.5	0.7	8.3	0.1	0.04
*Rep B00292679	500	6.1	2.62	1.1	0.3	9.7	1.6	0.02
*Std OREAS920	21.6	23.3	0.60	2.6	1.0	16.3	16.0	0.11
*Std OREAS151B	42.0	19.7	0.50	9.5	1.0	37.1	2.6	0.08
*Std OREAS902	10.4	7.8	0.79	2.6	<0.3	20.2	5.0	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
B00292624	0.96	4.61	131	0.2	20.5	94
B00292625	0.32	0.99	69	0.2	5.70	58
B00292626	0.36	0.74	110	0.2	3.59	99
B00292627	0.07	0.30	30	<0.1	0.98	22
B00292628	0.14	0.55	24	<0.1	3.34	18
B00292629	0.20	1.94	49	0.2	11.9	47
B00292630	0.46	0.27	84	0.3	4.25	80
B00292631	0.37	31.0	67	0.2	44.3	36
B00292632	0.31	20.7	53	0.1	52.1	348
B00292633	0.20	6.28	46	0.1	20.9	92
B00292634	0.15	2.15	28	0.1	6.34	59
B00292635	0.14	2.06	27	0.1	6.15	54
B00292636	0.58	4.60	81	0.2	22.9	75
B00292637	0.43	11.2	63	0.1	23.3	97
B00292638	0.51	6.51	82	0.2	19.4	94
B00292639	0.05	1.14	19	<0.1	5.19	9
B00292640	<0.02	0.08	<1	<0.1	0.67	3
B00292641	0.21	0.98	47	<0.1	6.81	31
B00292642	0.21	0.84	66	0.3	4.35	53
B00292643	0.41	1.03	69	<0.1	10.2	209
B00292644	0.36	0.91	54	<0.1	10.2	258
B00292645	0.27	0.80	41	<0.1	7.66	164
B00292646	0.49	17.4	74	0.2	30.0	226
B00292647	0.54	11.8	71	0.2	18.3	79
B00292648	0.51	13.0	74	0.2	28.3	82
B00292649	0.46	18.7	56	0.1	30.1	77
B00292650	0.25	11.3	42	0.1	20.7	109
B00292651	0.10	1.22	15	<0.1	15.2	85
B00292652	0.09	1.43	18	0.1	9.66	244
B00292653	0.16	2.11	35	0.2	34.7	257
B00292654	0.11	1.01	102	<0.1	29.0	191
B00292655	0.14	1.15	63	0.2	7.33	118
B00292656	0.14	1.09	61	<0.1	8.70	155
B00292657	0.17	1.11	35	0.2	9.76	60
B00292658	0.21	2.33	38	0.3	16.1	120
B00292659	0.20	1.28	38	0.5	9.51	81
B00292660	0.21	1.05	32	0.3	9.87	82
B00292661	0.95	4.73	15	0.2	13.9	63
B00292662	0.64	6.23	37	0.4	17.9	291
B00292663	0.30	2.20	14	0.2	7.42	70

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Final : VC172743 Order: PO# BMC17-01010

Report File No.: 0000024562

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
B00292664	0.15	2.17	38	3.6	6.16	63
B00292665	0.09	1.36	18	0.3	2.56	36
B00292666	0.14	1.67	22	0.2	4.10	98
B00292667	0.11	1.94	25	0.3	4.03	81
B00292668	0.11	3.03	18	0.2	6.17	134
B00292669	0.27	1.20	59	0.4	8.56	79
B00292670	0.51	2.12	36	0.3	3.34	100
B00292671	0.17	0.90	56	1.7	4.66	68
B00292672	0.11	1.58	37	0.4	7.41	88
B00292673	0.08	2.25	20	0.2	19.0	31
B00292674	0.19	7.82	31	0.3	35.2	387
B00292675	0.24	4.54	6	0.2	26.6	72
B00292676	0.38	1.74	36	0.4	13.4	2740
B00292677	0.38	3.11	32	0.3	20.1	521
B00292678	0.20	1.92	31	0.3	11.0	318
B00292679	0.42	8.93	21	0.3	25.5	202
B00292680	<0.02	0.09	<1	<0.1	0.73	4
B00292681	0.18	0.78	16	<0.1	2.88	86
*Rep B00292644	0.34	0.87	53	<0.1	9.90	251
*Rep B00292670	0.53	2.16	38	0.3	3.47	105
*Rep B00292679	0.42	9.26	20	0.3	26.3	206
*Std OREAS920	0.17	2.26	22	0.5	17.0	109
*Std OREAS151B	0.13	0.67	138	0.6	11.2	255
*Std OREAS902	0.24	2.29	7	2.2	7.27	6
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172752
[Report File No.: 0000024649]

Date: September 14, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01011
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292682	0.320	<5	0.18	0.86	9	336	0.36	0.05
B00292683	0.305	<5	0.15	0.72	8	456	0.29	0.05
B00292684	0.190	7	0.10	1.15	5	427	0.32	0.04
B00292685	0.325	9	0.88	0.71	36	177	3.36	0.12
B00292686	0.405	6	1.20	1.13	50	99	0.98	0.25
B00292687	0.085	8	1.03	1.07	8	268	0.38	0.60
B00292688	0.385	<5	0.07	1.08	4	80	0.25	0.20
B00292689	0.205	6	0.23	1.26	11	185	0.42	0.17
B00292690	0.185	6	0.37	1.33	19	133	0.77	0.16
B00292691	0.410	<5	0.06	1.64	2	95	0.29	0.22
B00292692	0.370	6	0.04	1.65	3	74	0.23	0.14
B00292693	0.360	6	0.13	1.64	8	121	0.35	0.21
B00292694	0.185	14	0.23	0.61	16	97	0.57	0.08
B00292695	0.425	7	0.16	0.99	35	76	0.37	0.13
B00292696	0.450	6	0.07	1.27	14	80	0.28	0.19
B00292697	0.260	11	0.19	1.28	5	118	0.26	0.13
B00292698	0.310	13	0.03	1.32	4	66	0.22	0.21
B00292699	0.480	6	0.05	1.01	8	90	0.32	0.12
B00292700	0.310	<5	0.05	1.56	3	121	0.23	0.13
B00292701	0.495	<5	0.03	1.28	4	83	0.24	0.21
B00292702	0.300	<5	0.28	0.36	11	69	0.27	0.07
B00292703	0.430	6	0.42	0.74	34	63	0.46	0.06
B00292704	0.520	<5	0.83	0.76	33	159	0.36	0.16
B00292705	0.390	10	0.68	0.95	41	97	0.47	0.09
B00292706	0.335	6	0.79	0.79	4	167	0.38	0.09
B00292707	0.450	<5	0.04	1.37	3	117	0.27	0.35
B00292708	0.290	<5	0.10	1.44	4	156	0.31	0.35
B00292709	0.610	<5	0.34	1.82	5	174	0.37	0.34
B00292710	0.180	<5	0.28	1.62	60	94	0.61	0.51
B00292711	0.335	7	0.34	1.31	32	95	0.25	0.65
B00292712	0.185	<5	0.51	2.21	9	309	0.83	0.69
B00292713	0.300	<5	0.25	1.30	4	124	0.23	0.22
B00292714	0.390	<5	0.18	1.71	12	177	0.26	0.17
B00292715	0.135	<5	0.77	1.11	6	108	0.35	0.23
B00292716	0.130	<5	0.08	0.22	<1	30	0.06	0.07
B00292717	0.330	<5	0.23	1.54	5	179	0.24	0.46
B00292718	0.375	<5	0.42	1.35	23	166	0.26	0.42
B00292719	0.655	<5	0.04	1.83	27	146	0.35	0.47
B00292720	0.320	8	0.13	2.31	6	136	0.18	0.61
B00292721	0.215	<5	0.25	2.16	47	278	0.32	0.82

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292722	0.280	<5	0.03	2.26	71	99	0.43	0.20
B00292723	0.365	7	0.45	0.79	12	192	0.32	1.29
B00292725	0.450	6	0.15	1.38	5	106	0.31	0.52
B00292726	0.290	6	0.11	1.87	15	90	0.14	0.48
B00292727	0.195	<5	0.41	1.33	25	100	0.21	1.05
B00292728	0.360	<5	0.16	1.63	12	84	0.29	0.49
B00292729	0.340	<5	0.11	1.75	10	85	0.27	0.40
B00292730	0.515	<5	0.04	1.42	4	94	0.21	0.38
B00292731	0.515	<5	0.02	1.35	6	113	0.22	0.31
B00292732	0.385	<5	0.17	1.25	2	87	0.28	0.23
B00292733	0.605	<5	0.39	0.93	7	86	0.28	0.13
B00292734	0.235	<5	0.90	0.84	44	207	0.49	0.12
B00292735	0.195	<5	0.80	0.82	18	176	0.36	0.23
B00292736	0.430	<5	0.27	0.68	20	63	0.49	0.08
B00292737	0.430	9	0.78	0.46	45	110	0.51	0.12
B00292738	0.475	<5	0.31	1.36	14	101	0.56	0.16
B00292739	0.470	<5	0.08	1.02	13	101	0.26	0.14
B00292740	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
B00292741	0.180	<5	0.10	0.58	3	33	0.06	0.04
B00292742	0.275	<5	0.24	0.86	20	81	0.42	0.07
B00292743	0.455	5	0.24	0.79	27	97	0.59	0.07
B00292744	0.465	<5	0.60	0.41	79	89	0.79	0.07
B00292745	0.340	<5	0.24	0.77	28	112	0.46	0.16
B00292746	0.365	6	0.69	0.40	59	73	1.35	0.07
B00292747	0.135	9	1.13	0.81	69	156	1.98	0.10
B00292748	0.205	<5	0.22	0.89	18	76	0.91	0.05
B00292749	0.305	<5	0.15	1.50	19	149	0.64	0.34
B00292750	0.360	<5	0.09	0.64	9	84	0.38	0.06
B00292751	0.330	7	0.27	0.88	13	323	0.44	0.15
B00292752	0.605	7	0.27	0.77	13	85	0.37	0.09
B00292753	0.375	<5	0.56	1.29	20	325	0.33	0.57
B00292754	0.120	7	0.35	1.22	19	134	0.20	1.31
B00292755	0.215	<5	0.14	0.56	12	38	0.45	0.02
B00292756	0.200	<5	0.15	1.73	9	278	0.45	0.33
B00292757	0.255	<5	0.31	0.88	14	92	0.60	0.05
B00292758	0.450	<5	0.46	0.63	16	63	0.89	0.14
*Std OREAS151B		68						
*Std OXK119		3530						
*Std AMIS0282		195						
*Blk BLANK		<5						

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Final : VC172752 Order: PO# BMC17-01011

Report File No.: 0000024649

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Rep B00292702		0.25	0.35	12	68	0.25	0.07
*Rep B00292743		0.21	0.77	25	93	0.63	0.07
*Std OREAS920		0.10	2.24	4	75	0.63	0.31
*Std OREAS902		0.29	0.54	600	15	8.71	3.98
*Std OREAS151B		0.54	2.37	30	69	0.38	1.32
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep B00292686	7						
*Rep B00292719	<5						
*Rep B00292752	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292682	0.12	30.3	5.3	15	43.9	2.00	4.2	0.03
B00292683	0.19	58.6	13.8	12	72.7	2.52	3.0	0.01
B00292684	0.14	37.3	9.4	23	78.9	3.07	5.2	0.03
B00292685	0.52	37.6	4.1	19	49.5	2.29	2.9	0.10
B00292686	0.60	68.4	8.6	74	42.1	2.53	3.9	0.08
B00292687	23.0	132	6.1	34	34.7	1.23	3.8	0.13
B00292688	0.46	42.6	6.7	34	15.5	2.03	4.7	<0.01
B00292689	0.51	68.0	7.7	28	19.4	2.16	5.0	0.02
B00292690	1.81	62.6	9.6	25	31.2	2.61	5.1	0.07
B00292691	0.42	32.0	9.9	42	16.2	2.82	6.2	0.02
B00292692	0.40	26.2	7.7	40	14.2	2.45	6.0	<0.01
B00292693	0.61	54.5	10.7	46	20.2	2.85	6.4	0.02
B00292694	1.41	32.2	1.8	14	10.8	1.19	3.8	0.08
B00292695	0.54	46.7	7.0	23	27.3	2.03	3.4	0.01
B00292696	0.29	26.5	9.5	37	15.5	2.47	5.2	0.02
B00292697	0.29	32.6	5.9	32	14.0	2.02	5.2	0.05
B00292698	0.20	19.7	7.7	37	11.2	2.34	5.6	<0.01
B00292699	0.18	24.5	6.4	41	13.3	2.59	7.9	<0.01
B00292700	0.28	24.0	8.3	28	11.8	3.24	8.9	0.02
B00292701	0.11	17.0	7.4	51	9.0	2.33	6.6	0.01
B00292702	0.42	39.1	2.3	8	10.6	0.92	1.9	0.04
B00292703	0.39	63.1	4.9	14	13.9	1.60	2.6	0.09
B00292704	0.50	20.4	6.2	52	8.5	1.43	5.6	0.13
B00292705	0.26	44.7	6.0	26	13.3	1.91	2.9	0.15
B00292706	0.30	36.6	1.1	14	5.7	0.85	2.5	0.14
B00292707	0.23	40.0	8.2	41	16.0	2.29	4.8	<0.01
B00292708	0.23	38.6	9.5	48	13.1	2.32	6.3	<0.01
B00292709	0.77	68.0	17.6	52	52.3	3.21	7.1	0.01
B00292710	0.36	73.4	19.7	34	40.4	3.91	5.9	0.03
B00292711	0.54	81.8	24.0	81	72.5	6.30	4.8	0.10
B00292712	1.15	54.7	18.4	39	34.2	3.64	6.5	0.02
B00292713	0.14	15.9	6.9	32	15.0	2.47	5.2	0.01
B00292714	0.21	36.1	12.4	52	34.8	3.10	5.0	0.02
B00292715	0.62	46.2	4.2	14	16.3	1.72	4.6	0.03
B00292716	0.60	6.26	1.6	4	2.4	0.44	1.4	0.01
B00292717	0.27	41.9	8.3	23	22.0	2.96	5.6	<0.01
B00292718	0.25	45.1	9.9	28	63.2	2.76	4.6	0.01
B00292719	0.15	53.3	12.5	35	16.9	3.52	6.2	<0.01
B00292720	0.62	36.0	16.0	66	21.6	4.74	7.6	0.03
B00292721	1.02	48.8	15.4	40	24.4	4.41	7.1	0.02

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292722	0.16	22.7	15.3	56	25.3	5.61	10.5	<0.01
B00292723	3.54	50.4	18.4	22	72.8	4.10	3.0	0.06
B00292725	0.37	31.6	11.3	38	27.1	3.35	6.5	0.01
B00292726	0.31	36.2	14.1	63	31.1	4.39	6.2	0.01
B00292727	0.62	39.3	12.8	33	93.9	4.07	4.6	0.04
B00292728	0.14	45.6	10.0	40	43.4	4.45	5.4	0.02
B00292729	0.12	37.0	9.8	42	20.2	3.01	6.3	<0.01
B00292730	0.17	37.4	11.5	51	16.5	2.52	5.3	<0.01
B00292731	0.19	36.5	10.8	37	16.7	2.64	5.0	<0.01
B00292732	0.25	30.0	5.2	34	7.3	1.55	5.2	0.05
B00292733	0.25	41.0	4.8	23	11.0	1.47	2.9	0.05
B00292734	0.60	65.6	4.4	23	18.4	2.09	4.2	0.13
B00292735	1.41	68.8	3.5	18	19.9	1.44	2.7	0.11
B00292736	0.21	61.3	4.9	12	11.0	1.31	2.4	0.04
B00292737	0.66	42.1	3.8	14	36.0	1.68	2.3	0.19
B00292738	0.29	71.6	7.3	34	24.0	2.05	4.9	0.04
B00292739	0.51	44.6	8.1	26	16.9	1.93	3.8	0.03
B00292740	<0.01	1.11	0.1	2	0.8	0.03	<0.1	<0.01
B00292741	0.06	9.91	1.1	4	7.8	0.43	1.7	0.02
B00292742	0.21	37.5	5.3	22	12.1	1.90	3.9	0.07
B00292743	0.33	49.0	4.6	16	15.7	1.54	2.9	0.02
B00292744	1.90	41.6	8.1	9	94.0	1.81	1.2	0.15
B00292745	1.04	41.2	5.7	13	29.8	1.82	2.7	0.05
B00292746	2.74	43.5	5.7	6	103	2.24	1.5	0.06
B00292747	2.75	72.1	4.1	10	72.2	2.40	3.3	0.16
B00292748	1.19	54.0	4.1	14	42.3	1.75	3.6	0.05
B00292749	2.35	69.3	9.9	16	24.5	3.79	5.9	0.03
B00292750	0.51	39.8	3.3	16	12.6	1.41	3.8	0.03
B00292751	1.00	71.2	8.4	23	15.8	1.87	4.5	0.05
B00292752	0.94	54.4	6.2	20	15.6	1.66	3.0	0.05
B00292753	3.86	114	18.2	66	28.9	2.24	4.3	0.08
B00292754	4.60	67.9	17.9	67	62.9	2.17	3.3	0.06
B00292755	0.33	35.9	2.5	13	9.4	1.18	3.4	0.02
B00292756	0.67	78.2	13.1	19	15.2	4.28	7.7	0.04
B00292757	0.95	91.3	5.0	15	34.1	1.69	3.3	0.06
B00292758	5.82	57.0	11.6	12	21.6	1.62	2.1	0.11

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep B00292702	0.38	38.5	2.3	8	10.9	0.90	1.9	0.04
*Rep B00292743	0.30	47.7	4.6	16	15.4	1.52	2.9	0.02
*Std OREAS920	0.07	65.5	13.9	41	109	3.59	6.4	<0.01
*Std OREAS902	0.02	31.0	963	21	3070	3.11	1.6	0.04
*Std OREAS151B	0.56	16.6	11.0	28	1890	3.37	7.7	0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292682	0.10	16.7	0.17	447	1.21	0.02	18.6	950
B00292683	0.20	29.4	0.25	1750	1.52	0.01	37.5	470
B00292684	0.11	19.7	0.31	625	1.36	0.02	37.5	920
B00292685	0.08	23.8	0.20	233	5.97	0.02	17.8	900
B00292686	0.05	46.2	0.73	242	3.25	0.01	43.4	1050
B00292687	0.09	113	0.41	190	0.75	0.01	35.4	1180
B00292688	0.12	25.4	0.50	215	0.74	0.02	18.5	910
B00292689	0.13	45.8	0.38	301	2.14	0.02	17.9	850
B00292690	0.15	32.8	0.39	559	2.59	0.02	19.1	790
B00292691	0.16	15.9	0.66	301	0.89	0.02	21.2	830
B00292692	0.11	13.9	0.64	219	0.78	0.02	19.4	630
B00292693	0.17	27.5	0.68	448	1.79	0.02	24.7	840
B00292694	0.09	18.9	0.09	53	2.82	0.01	6.7	870
B00292695	0.13	24.6	0.35	278	1.86	0.02	21.5	760
B00292696	0.20	14.5	0.59	377	1.52	0.01	19.9	770
B00292697	0.12	18.2	0.43	141	1.20	0.02	16.4	900
B00292698	0.19	10.6	0.63	212	0.89	0.02	20.5	830
B00292699	0.15	12.9	0.48	303	1.63	0.01	17.3	600
B00292700	0.15	12.6	0.65	299	1.37	0.02	16.2	640
B00292701	0.25	9.2	0.64	191	0.98	0.02	18.5	800
B00292702	0.07	19.4	0.06	71	1.57	0.02	4.7	490
B00292703	0.09	28.0	0.21	192	2.87	0.01	11.2	450
B00292704	0.18	11.3	0.36	277	1.26	0.02	12.8	510
B00292705	0.13	28.9	0.36	95	2.92	0.01	15.8	470
B00292706	0.12	20.4	0.09	65	1.72	0.01	3.3	1270
B00292707	0.24	21.9	0.75	225	0.76	0.02	26.5	1080
B00292708	0.16	22.9	0.72	424	1.21	0.02	22.7	890
B00292709	0.24	38.2	0.97	458	0.78	0.02	38.6	1060
B00292710	0.11	29.2	0.80	964	1.66	0.02	36.5	1810
B00292711	0.09	54.3	0.70	803	2.01	0.01	83.0	1440
B00292712	0.25	34.6	0.88	1110	2.97	0.02	26.9	1320
B00292713	0.10	10.0	0.54	419	1.62	0.02	15.2	970
B00292714	0.20	20.9	0.87	352	1.76	0.01	31.8	870
B00292715	0.15	31.0	0.29	296	1.64	0.02	6.9	1210
B00292716	0.06	3.4	0.03	174	0.32	0.03	1.2	690
B00292717	0.40	30.0	0.71	284	1.20	0.02	10.8	1080
B00292718	0.31	36.2	0.66	338	1.71	0.02	39.5	610
B00292719	0.47	27.9	0.92	421	2.16	0.01	19.2	1090
B00292720	0.07	18.8	1.52	1860	0.92	0.01	41.2	1640
B00292721	0.51	39.7	1.05	662	2.77	0.02	24.5	1410

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292722	0.80	12.3	1.18	453	2.35	0.02	29.6	870
B00292723	0.07	22.9	0.38	3180	2.30	0.01	68.1	1730
B00292725	0.15	17.3	0.80	622	1.18	0.01	26.9	960
B00292726	0.06	19.8	1.17	486	1.52	0.01	46.6	1250
B00292727	0.07	22.1	0.90	634	3.02	0.01	50.4	1660
B00292728	0.07	26.7	0.83	311	2.35	0.01	27.3	1280
B00292729	0.11	26.2	0.86	270	1.00	0.01	23.9	900
B00292730	0.26	20.1	0.90	356	0.66	0.02	30.9	1220
B00292731	0.29	17.9	0.80	403	0.90	0.01	27.1	970
B00292732	0.14	17.0	0.59	143	0.78	0.02	13.6	890
B00292733	0.14	24.3	0.38	104	1.34	0.01	14.6	590
B00292734	0.16	36.8	0.21	281	3.34	0.01	13.5	1150
B00292735	0.09	38.4	0.13	300	2.16	0.02	9.9	1610
B00292736	0.08	32.9	0.16	246	2.02	0.02	10.8	560
B00292737	0.07	20.8	0.15	282	4.33	0.02	8.5	520
B00292738	0.16	34.9	0.51	161	3.02	0.01	20.0	640
B00292739	0.15	21.8	0.41	442	2.03	0.01	19.0	660
B00292740	<0.01	0.5	<0.01	2	0.06	0.01	<0.5	<50
B00292741	0.03	4.8	0.05	28	0.43	0.04	1.9	420
B00292742	0.10	18.5	0.30	175	2.80	0.01	13.7	500
B00292743	0.10	24.7	0.20	145	2.11	0.01	13.5	560
B00292744	0.12	20.8	0.12	410	3.67	0.01	16.5	330
B00292745	0.13	19.0	0.15	427	2.14	0.01	14.3	570
B00292746	0.12	21.3	0.06	599	5.20	0.01	10.6	330
B00292747	0.13	39.0	0.10	217	5.31	0.02	8.4	770
B00292748	0.07	25.3	0.15	236	2.33	0.01	12.1	690
B00292749	0.40	33.7	0.64	445	3.46	0.01	11.1	1030
B00292750	0.08	19.1	0.15	97	1.93	0.01	8.4	510
B00292751	0.11	34.9	0.23	515	1.99	0.02	13.7	1000
B00292752	0.08	26.5	0.24	234	2.00	0.01	16.2	550
B00292753	0.10	59.7	0.82	1820	1.33	0.01	51.4	830
B00292754	0.11	51.1	0.92	643	1.28	0.01	68.0	1040
B00292755	0.05	15.3	0.06	69	1.87	0.01	7.4	470
B00292756	0.55	37.5	0.86	533	2.73	0.01	10.3	1090
B00292757	0.07	43.8	0.18	242	2.27	0.01	13.2	630
B00292758	0.05	25.8	0.17	374	2.25	0.01	21.9	530

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep B00292702	0.07	19.6	0.06	68	1.50	0.02	4.8	490
*Rep B00292743	0.09	23.5	0.21	145	2.10	0.01	13.1	550
*Std OREAS920	0.45	35.9	1.02	515	0.36	0.03	37.8	720
*Std OREAS902	0.29	16.3	2.13	473	12.0	0.02	172	680
*Std OREAS151B	0.38	7.3	1.44	295	55.2	0.15	14.4	540
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292682	15.9	17.3	0.18	0.5	0.4	13.1	0.2	0.02
B00292683	23.6	17.6	0.10	1.7	<0.3	31.4	6.4	0.04
B00292684	11.4	18.4	0.36	1.4	0.4	9.1	0.5	0.04
B00292685	152	11.1	5.27	0.8	0.4	13.6	1.1	0.02
B00292686	187	8.1	1.25	3.6	0.4	14.4	12.5	0.04
B00292687	18.1	14.7	0.60	1.3	<0.3	17.4	2.7	0.03
B00292688	13.4	10.2	0.19	1.8	0.7	8.7	1.5	0.10
B00292689	26.9	21.2	0.43	1.3	0.6	11.8	1.5	0.05
B00292690	62.2	25.4	1.10	1.8	0.6	11.6	3.2	0.05
B00292691	14.5	19.2	0.21	2.5	0.9	8.5	2.0	0.13
B00292692	11.8	14.0	0.18	1.9	0.8	6.6	1.2	0.11
B00292693	20.1	24.6	0.43	2.0	0.9	9.6	1.6	0.10
B00292694	36.2	15.6	0.66	0.6	0.6	8.1	0.9	0.03
B00292695	43.3	14.4	1.02	1.7	0.4	9.9	5.4	0.06
B00292696	19.9	23.0	0.56	2.6	0.7	9.0	5.9	0.13
B00292697	17.9	13.3	0.30	1.3	0.8	8.3	0.5	0.08
B00292698	8.9	20.5	0.15	2.6	0.8	8.6	2.8	0.13
B00292699	9.5	18.2	0.26	2.5	1.1	7.5	3.5	0.21
B00292700	8.3	18.8	0.27	2.5	1.2	7.8	3.2	0.19
B00292701	7.6	20.9	0.10	2.7	0.8	6.8	3.3	0.18
B00292702	27.0	5.8	0.60	0.4	<0.3	6.9	1.0	0.02
B00292703	66.7	10.2	2.18	1.0	0.4	4.9	7.0	0.03
B00292704	76.9	29.2	3.53	2.0	1.7	9.2	2.8	0.16
B00292705	68.8	17.4	2.38	1.6	<0.3	5.9	7.1	0.07
B00292706	30.5	12.1	0.62	0.3	0.4	5.8	0.5	0.01
B00292707	17.9	20.3	0.20	3.4	0.7	12.3	8.6	0.13
B00292708	15.7	17.3	0.12	2.6	0.9	14.8	2.7	0.11
B00292709	19.9	27.4	0.24	5.7	0.8	13.9	12.7	0.14
B00292710	75.4	15.6	0.20	2.8	0.3	29.3	3.9	0.05
B00292711	24.6	9.1	0.29	6.7	<0.3	19.7	8.3	0.02
B00292712	24.1	26.1	0.16	1.5	0.4	26.9	0.9	0.08
B00292713	12.6	16.1	0.11	0.6	0.4	12.3	0.2	0.06
B00292714	22.2	25.9	0.18	1.2	0.3	11.7	0.9	0.09
B00292715	28.3	23.9	0.19	0.4	0.4	16.3	0.2	0.04
B00292716	3.3	4.3	<0.05	<0.1	<0.3	5.9	<0.1	0.01
B00292717	15.6	36.5	0.08	2.7	0.3	19.4	2.1	0.14
B00292718	22.7	32.2	0.17	3.7	0.3	15.3	4.0	0.08
B00292719	18.4	50.3	0.08	3.7	0.6	17.2	10.6	0.16
B00292720	17.3	6.7	0.11	5.5	<0.3	22.9	5.6	0.03
B00292721	15.1	68.2	0.08	5.2	0.5	24.3	8.9	0.15

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292722	18.3	71.4	0.19	4.2	0.9	9.2	5.0	0.35
B00292723	31.3	6.2	0.23	2.3	<0.3	32.2	3.4	0.02
B00292725	22.5	19.5	0.19	4.0	0.8	16.9	4.7	0.11
B00292726	14.8	6.7	0.18	4.0	0.4	17.1	5.3	0.04
B00292727	23.6	7.0	0.22	3.1	<0.3	35.0	3.4	0.04
B00292728	22.1	9.5	0.16	4.3	0.3	17.2	9.2	0.05
B00292729	16.6	12.6	0.14	3.5	0.6	17.4	6.6	0.09
B00292730	13.4	18.5	0.14	3.3	0.7	11.8	7.0	0.15
B00292731	16.5	23.9	0.16	3.4	0.7	11.6	7.8	0.12
B00292732	15.9	12.6	0.23	2.3	0.7	8.8	3.8	0.11
B00292733	20.5	14.2	0.63	1.6	<0.3	6.8	5.9	0.06
B00292734	77.5	17.9	6.65	0.5	0.8	10.4	0.7	0.03
B00292735	38.8	10.4	0.74	0.4	<0.3	15.8	0.4	0.02
B00292736	25.9	9.0	0.88	0.7	<0.3	6.0	4.5	0.03
B00292737	87.7	9.5	2.06	0.8	<0.3	7.1	1.7	0.03
B00292738	32.3	23.2	0.76	3.2	0.6	9.6	13.6	0.08
B00292739	19.7	16.8	0.81	2.1	0.4	9.3	7.4	0.06
B00292740	0.5	<0.2	0.08	<0.1	<0.3	0.6	0.3	<0.01
B00292741	4.8	3.0	0.15	0.4	<0.3	5.5	0.2	0.02
B00292742	24.5	11.1	0.89	1.1	0.4	7.7	2.2	0.05
B00292743	27.9	12.6	1.10	0.9	<0.3	8.5	2.5	0.03
B00292744	136	10.1	2.27	1.0	<0.3	7.4	15.7	0.02
B00292745	48.4	15.3	1.19	0.9	<0.3	7.8	3.1	0.02
B00292746	129	12.7	6.32	0.8	<0.3	8.2	10.7	<0.01
B00292747	151	17.0	2.51	0.6	0.5	10.2	2.1	<0.01
B00292748	38.5	11.5	1.31	0.8	0.3	5.9	1.6	0.01
B00292749	28.2	49.9	0.92	3.9	0.5	17.2	10.5	0.11
B00292750	22.3	10.9	0.51	0.6	0.4	7.2	0.6	0.03
B00292751	24.0	18.2	0.67	1.2	0.7	10.5	1.5	0.04
B00292752	25.1	10.8	0.67	1.6	<0.3	8.1	7.8	0.04
B00292753	17.3	17.7	0.63	3.3	0.3	15.3	7.5	0.02
B00292754	10.1	16.1	0.69	3.4	<0.3	24.4	5.3	0.03
B00292755	23.2	8.5	0.64	0.5	0.4	4.0	0.5	0.03
B00292756	50.5	88.9	0.54	5.1	0.7	19.2	8.7	0.19
B00292757	51.5	10.2	1.27	1.2	0.3	6.5	3.9	0.02
B00292758	45.7	6.3	1.93	1.5	<0.3	8.7	17.2	0.01

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep B00292702	26.8	5.6	0.74	0.4	<0.3	6.7	1.0	0.02
*Rep B00292743	27.4	12.3	1.06	0.9	<0.3	7.9	2.5	0.03
*Std OREAS920	21.9	24.6	0.59	2.7	1.1	16.5	16.0	0.13
*Std OREAS902	10.4	9.6	0.83	2.7	<0.3	21.4	5.4	<0.01
*Std OREAS151B	39.6	19.4	0.51	9.5	1.0	36.5	2.6	0.07
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
B00292682	0.17	1.42	23	0.2	5.18	72
B00292683	0.27	1.61	18	<0.1	6.30	97
B00292684	0.20	1.39	33	0.2	4.79	123
B00292685	0.32	1.83	16	0.7	6.22	206
B00292686	0.33	3.07	30	0.4	17.4	461
B00292687	0.25	4.54	19	0.2	58.2	1410
B00292688	0.12	1.31	36	0.4	9.75	82
B00292689	0.23	3.50	31	0.4	21.6	256
B00292690	0.27	4.30	35	0.4	20.1	623
B00292691	0.23	1.21	48	0.3	7.76	87
B00292692	0.20	1.11	43	0.3	6.07	80
B00292693	0.22	2.48	49	0.4	13.9	123
B00292694	0.20	2.11	23	0.6	6.44	92
B00292695	0.20	2.88	28	0.3	9.97	176
B00292696	0.16	1.30	45	0.4	5.76	91
B00292697	0.17	1.77	39	0.3	7.36	54
B00292698	0.17	0.79	43	0.3	5.51	61
B00292699	0.12	1.18	62	0.5	5.27	54
B00292700	0.15	1.16	63	0.2	5.56	69
B00292701	0.13	0.64	55	6.9	5.05	42
B00292702	0.11	1.54	14	0.2	5.35	94
B00292703	0.25	2.17	17	0.2	8.16	128
B00292704	0.19	0.74	44	0.5	4.38	45
B00292705	0.34	2.18	25	0.3	9.76	285
B00292706	0.26	3.09	11	0.1	7.89	54
B00292707	0.21	1.05	40	0.3	9.10	85
B00292708	0.20	1.31	51	0.4	9.80	79
B00292709	0.21	1.96	56	0.4	22.3	113
B00292710	0.13	1.22	41	0.1	11.3	98
B00292711	0.15	1.73	44	0.2	34.2	275
B00292712	0.26	2.96	50	0.1	12.0	216
B00292713	0.18	1.19	39	0.1	2.58	69
B00292714	0.27	1.47	45	0.1	4.99	130
B00292715	0.18	2.12	29	0.1	6.01	79
B00292716	0.02	0.28	9	<0.1	0.68	14
B00292717	0.31	1.61	52	0.1	9.43	85
B00292718	0.24	4.05	41	0.2	16.4	95
B00292719	0.36	4.89	54	0.1	13.9	76
B00292720	0.09	0.61	68	<0.1	9.72	315
B00292721	0.46	10.0	67	0.1	29.9	178

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
B00292722	0.49	1.05	132	0.2	6.21	105
B00292723	0.12	1.56	22	0.1	13.9	336
B00292725	0.13	1.15	41	0.3	7.89	147
B00292726	0.08	0.70	50	0.1	8.83	194
B00292727	0.16	1.41	49	0.1	12.6	209
B00292728	0.13	1.38	47	0.2	12.8	147
B00292729	0.14	1.12	43	0.2	8.47	69
B00292730	0.16	0.87	44	0.4	8.58	74
B00292731	0.18	0.94	40	0.2	7.98	84
B00292732	0.17	1.27	33	0.3	6.61	68
B00292733	0.20	1.58	21	0.4	9.08	103
B00292734	0.27	3.61	23	0.3	12.1	113
B00292735	0.25	3.38	15	0.2	12.5	121
B00292736	0.21	2.56	16	0.3	8.63	81
B00292737	0.15	2.55	14	0.2	8.92	195
B00292738	0.27	4.35	34	0.6	14.6	203
B00292739	0.20	2.37	27	0.3	7.59	217
B00292740	<0.02	0.10	<1	<0.1	0.69	2
B00292741	0.06	0.90	8	<0.1	1.98	15
B00292742	0.13	1.62	26	0.3	3.80	100
B00292743	0.16	2.15	20	0.2	5.28	110
B00292744	0.25	7.49	7	0.1	9.31	431
B00292745	0.16	3.45	18	0.2	11.0	382
B00292746	0.21	5.64	6	0.2	7.77	523
B00292747	0.26	4.53	10	0.3	16.7	421
B00292748	0.15	3.17	19	0.4	9.79	378
B00292749	0.49	3.28	55	0.2	20.5	628
B00292750	0.15	1.60	24	0.2	7.13	99
B00292751	0.17	2.98	31	0.3	15.0	178
B00292752	0.13	2.88	24	0.4	10.5	370
B00292753	0.33	2.64	22	0.2	28.4	604
B00292754	0.30	4.09	22	0.2	39.1	563
B00292755	0.13	1.52	22	0.4	5.35	66
B00292756	0.78	3.05	78	0.2	21.1	323
B00292757	0.17	4.40	19	0.3	20.6	644
B00292758	0.15	6.82	11	0.2	20.7	2430

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Final : VC172752 Order: PO# BMC17-01011

Report File No.: 0000024649

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep B00292702	0.11	1.40	14	0.1	5.03	88
*Rep B00292743	0.15	2.12	20	0.2	5.06	109
*Std OREAS920	0.17	2.24	22	0.6	18.1	109
*Std OREAS902	0.27	2.46	9	2.2	7.60	7
*Std OREAS151B	0.13	0.63	148	0.6	10.3	251
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172754
[Report File No.: 0000025183]

Date: October 09, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01011
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package
7	GE_ISE15V	Paste pH on Soils and/or Sediments sample

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By :

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292759	0.330	5	0.34	0.97	13	107	0.46	0.10
B00292760	0.295	6	0.31	0.89	11	83	0.40	0.09
B00292761	0.300	<5	0.08	0.71	17	60	0.26	0.03
B00292762	0.405	12	0.97	0.74	132	67	1.27	0.07
B00292763	0.340	6	0.28	0.63	88	398	0.36	0.08
B00292764	0.380	8	0.18	0.58	21	176	0.26	0.11
B00292765	0.370	<5	0.05	1.43	7	78	0.34	0.10
B00292766	0.340	<5	0.21	1.00	20	116	0.30	0.10
B00292767	0.270	<5	0.50	1.24	23	126	0.52	0.11
B00292768	0.290	<5	0.18	0.72	11	90	0.26	0.09
B00292769	0.570	6	0.32	0.93	16	141	0.42	0.19
B00292770	0.185	<5	0.53	1.02	7	107	0.20	0.17
B00292771	0.310	8	0.25	1.43	17	215	0.33	0.18
B00292772	0.215	7	0.24	1.73	19	154	0.29	0.10
B00292773	0.170	5	0.84	0.88	11	190	0.25	0.13
B00292774	0.430	<5	0.22	1.10	7	179	0.37	0.19
B00292775	0.435	6	0.20	1.11	22	101	0.32	0.32
B00292776	0.390	<5	0.10	0.47	11	55	0.25	0.12
B00292777	0.310	6	0.14	1.30	7	296	0.38	0.26
B00292778	0.055	7	0.23	0.61	3	585	0.07	1.99
B00292779	0.350	<5	0.14	1.21	5	134	0.27	0.68
B00292780	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
B00292781	0.165	<5	0.14	1.23	3	93	0.33	0.28
B00292782	0.280	8	0.69	0.57	32	142	0.56	0.45
B00292783	0.405	5	0.37	0.49	16	178	0.39	0.72
B00292784	0.420	150	>10.0	0.82	484	135	3.26	0.09
B00292785	0.480	<5	0.14	1.01	13	80	0.38	0.10
B00292786	0.545	7	0.28	1.07	17	90	0.48	0.14
B00292787	0.410	5	0.25	0.72	13	74	0.32	0.10
B00292788	0.405	7	0.56	1.01	14	82	0.55	0.09
B00292789	0.505	10	0.49	0.74	11	86	0.49	0.07
B00292790	0.505	10	0.27	0.74	12	121	0.43	0.12
B00292791	0.440	7	0.10	0.71	9	73	0.34	0.15
B00292792	0.330	10	0.23	1.56	13	245	0.23	0.21
B00292793	0.360	10	0.51	0.31	103	166	3.94	0.05
B00292794	0.275	15	0.09	1.08	2	480	0.24	0.11
B00292795	0.335	7	0.10	0.77	<1	486	0.29	0.30
B00292796	0.470	9	0.14	0.99	2	360	0.25	0.11
B00292797	0.225	9	0.19	1.86	2	562	0.57	0.37
B00292798	0.235	11	0.16	1.41	6	728	0.37	0.43

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292799	0.245	5	0.11	1.58	<1	311	0.60	0.33
B00292800	0.260	<5	0.11	1.63	<1	296	0.65	0.28
B00292801	0.285	9	0.09	2.54	2	337	0.55	0.39
B00292802	0.225	7	0.05	2.92	2	329	0.73	0.44
B00292803	0.280	5	0.18	0.70	11	130	0.56	0.08
B00292804	0.210	<5	0.11	1.49	2	142	0.23	0.81
B00292805	0.250	<5	0.16	2.22	7	292	0.72	0.62
B00292806	0.240	6	0.35	3.01	20	306	0.57	0.82
B00292807	0.345	6	0.36	3.04	28	377	0.63	0.78
B00292808	0.415	7	0.34	2.01	7	320	0.61	0.66
B00292809	0.710	5	0.04	1.56	8	66	0.66	0.18
B00292810	0.725	<5	0.05	2.03	6	116	0.56	0.21
B00292811	0.730	<5	0.01	1.85	6	74	0.37	0.34
B00292812	0.410	<5	0.07	1.78	11	153	0.29	0.54
B00292813	0.440	6	0.11	0.89	21	44	1.98	0.04
B00292814	0.270	<5	0.10	3.52	6	372	0.75	1.12
B00292815	0.430	6	0.70	2.34	43	242	0.69	0.89
B00292816	0.340	6	1.04	2.37	50	186	0.64	1.05
B00292817	0.475	<5	0.16	3.03	32	266	0.89	0.54
B00292818	0.415	8	0.31	3.25	10	351	1.04	0.70
B00292819	0.495	<5	0.08	2.20	4	173	0.60	0.54
B00292820	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
B00292821	0.475	15	0.30	2.62	74	314	0.69	0.74
B00292822	0.300	8	0.41	2.82	45	322	1.01	0.67
B00292823	0.415	7	0.36	2.55	60	191	0.85	0.45
B00292824	0.500	<5	0.11	2.00	31	153	0.61	0.52
B00292825	0.385	5	0.10	1.26	17	153	1.01	0.50
B00292826	0.795	<5	0.05	1.98	12	123	0.24	0.41
B00292827	0.335	<5	0.04	1.03	4	75	0.24	0.29
B00292828	0.395	6	0.09	1.23	4	122	0.41	0.37
B00292829	0.290	7	0.27	1.33	4	73	0.51	0.15
B00292830	0.115	8	0.37	2.56	10	393	0.96	0.95
B00292831	0.325	<5	0.19	1.33	5	156	0.51	0.41
B00292832	0.340	<5	0.13	1.53	5	125	0.48	0.38
B00292833	0.200	8	0.89	1.97	7	189	0.73	0.30
B00292834	0.310	7	0.04	1.55	4	86	0.85	0.31
*Std OREAS151B		71						
*Std OXK119		3890						
*Std OREAS151B		71						
*Blk BLANK		<5						

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Final : VC172754 Order: PO# BMC17-01011

Report File No.: 0000025183

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep B00292779		0.14	1.21	7	139	0.27	0.70
*Rep B00292805		0.15	2.38	7	306	0.74	0.64
*Rep B00292817		0.17	2.91	34	270	0.89	0.55
*Std OREAS920		0.11	2.49	5	81	0.77	0.34
*Std OREAS151B		0.58	2.47	34	71	0.41	1.41
*Std OREAS902		0.29	0.47	604	14	8.54	3.93
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep B00292769	7						
*Rep B00292790	<5						
*Rep B00292826	9						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292759	0.88	70.0	7.4	18	21.3	1.47	3.3	0.05
B00292760	0.80	66.5	7.1	16	15.4	1.38	2.9	0.05
B00292761	0.28	35.9	3.4	14	11.0	1.33	3.3	0.05
B00292762	1.07	65.9	6.7	10	41.8	1.81	2.2	0.17
B00292763	0.45	45.4	7.3	20	35.1	2.00	2.6	0.02
B00292764	0.63	48.3	4.6	15	17.5	1.64	2.1	0.04
B00292765	0.14	22.7	7.0	40	12.9	3.07	8.0	0.05
B00292766	0.40	51.0	6.1	22	16.5	1.90	3.4	0.01
B00292767	0.36	41.2	6.4	24	26.8	2.30	4.1	0.07
B00292768	0.29	31.9	4.4	15	15.2	1.53	2.9	0.03
B00292769	2.29	57.4	10.8	22	25.3	2.40	3.0	0.06
B00292770	0.37	25.2	5.1	21	15.5	1.55	3.7	0.09
B00292771	0.57	46.7	12.4	38	26.2	2.99	4.1	0.04
B00292772	0.84	41.8	8.8	56	18.1	2.92	6.4	0.05
B00292773	1.34	100	8.9	25	16.3	1.48	3.3	0.13
B00292774	1.43	55.7	4.8	28	13.8	1.87	5.6	0.04
B00292775	2.16	71.0	16.4	45	31.4	2.10	2.9	0.03
B00292776	0.94	60.2	5.6	12	12.2	1.22	1.6	<0.01
B00292777	0.55	86.7	10.2	34	21.1	2.34	4.9	0.03
B00292778	2.33	141	8.2	10	39.5	0.67	2.2	0.17
B00292779	0.74	33.6	9.1	29	20.2	2.33	4.5	<0.01
B00292780	<0.01	1.06	<0.1	<1	0.8	0.03	<0.1	<0.01
B00292781	0.36	29.4	4.8	30	13.6	1.87	4.2	0.01
B00292782	0.40	39.5	5.6	10	21.7	1.60	2.2	0.27
B00292783	2.20	103	6.4	7	52.4	1.40	2.3	0.04
B00292784	0.57	42.9	4.5	14	58.5	2.60	2.8	7.62
B00292785	0.34	49.8	6.7	19	17.4	1.70	3.1	0.06
B00292786	0.88	81.0	12.1	20	23.6	1.88	3.5	0.04
B00292787	1.05	75.9	8.6	13	15.3	1.34	2.5	0.04
B00292788	1.81	109	13.3	14	20.9	1.76	3.5	0.09
B00292789	0.46	64.0	5.3	12	15.4	1.52	2.6	0.08
B00292790	0.72	65.6	5.0	15	15.1	1.58	2.6	<0.01
B00292791	1.02	71.2	5.5	15	12.3	1.50	2.3	0.03
B00292792	2.14	35.0	20.4	69	35.9	2.74	3.9	0.08
B00292793	0.27	62.3	1.0	3	44.9	4.71	3.7	0.11
B00292794	1.04	94.8	17.8	18	130	3.29	3.9	0.06
B00292795	0.17	57.4	13.2	12	64.4	1.95	3.3	0.04
B00292796	0.06	51.4	18.6	12	119	3.71	4.2	0.01
B00292797	0.07	43.2	17.1	35	87.8	4.04	6.4	0.02
B00292798	0.06	42.6	15.3	22	97.5	3.28	5.7	0.06

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292799	0.36	63.1	12.3	37	50.2	3.62	4.9	<0.01
B00292800	0.29	62.2	13.0	41	50.6	3.67	5.0	<0.01
B00292801	0.23	34.7	18.3	83	47.0	5.02	7.4	<0.01
B00292802	0.43	30.1	19.7	107	39.2	5.60	8.7	<0.01
B00292803	0.54	27.4	10.3	20	28.0	2.06	2.8	0.01
B00292804	0.41	19.6	4.7	26	21.3	2.02	4.7	0.01
B00292805	0.21	50.9	10.6	39	33.2	4.04	7.5	<0.01
B00292806	0.55	52.6	20.9	61	66.8	5.92	10.2	0.02
B00292807	1.10	56.0	22.0	80	69.7	6.63	9.8	0.02
B00292808	0.37	76.0	11.4	29	22.2	3.56	6.1	0.02
B00292809	0.09	37.1	7.6	26	10.9	2.59	4.8	<0.01
B00292810	0.15	39.9	10.8	42	18.1	3.21	6.3	<0.01
B00292811	0.07	28.7	9.5	33	19.1	3.22	5.5	<0.01
B00292812	0.17	37.2	10.7	30	14.8	3.80	6.7	<0.01
B00292813	0.09	23.9	3.0	11	9.1	1.83	4.3	<0.01
B00292814	0.27	35.7	22.4	26	19.9	7.60	14.2	<0.01
B00292815	6.80	72.8	23.5	59	139	6.03	8.0	<0.01
B00292816	10.5	64.9	25.7	74	184	6.33	8.2	0.01
B00292817	1.57	121	31.0	57	96.9	7.18	10.7	<0.01
B00292818	1.31	116	30.2	64	127	7.89	12.1	<0.01
B00292819	0.13	224	13.4	26	54.0	4.65	9.0	<0.01
B00292820	<0.01	1.30	<0.1	<1	0.7	0.02	<0.1	<0.01
B00292821	3.32	85.7	33.0	60	98.0	7.42	10.0	0.01
B00292822	1.49	122	28.0	57	123	6.85	10.7	0.03
B00292823	2.30	98.1	28.0	52	120	5.95	8.7	0.02
B00292824	0.88	60.9	11.9	32	49.2	4.62	6.7	<0.01
B00292825	0.62	50.9	8.5	22	40.2	2.58	4.6	<0.01
B00292826	0.09	66.1	15.0	35	18.4	4.08	6.8	<0.01
B00292827	0.13	37.2	9.3	42	15.4	1.85	3.7	<0.01
B00292828	0.11	43.7	9.2	52	21.3	2.40	5.1	0.02
B00292829	2.93	32.4	8.9	39	16.3	2.19	6.2	0.02
B00292830	3.36	64.0	14.5	65	62.0	4.66	9.2	0.05
B00292831	1.35	32.0	10.8	34	15.6	2.52	5.6	0.03
B00292832	2.27	34.1	7.7	47	16.6	2.55	6.4	0.01
B00292833	0.52	39.4	10.4	41	23.2	3.54	8.0	0.06
B00292834	0.26	47.2	9.5	49	12.8	2.82	5.9	0.02

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep B00292779	0.77	35.4	9.4	29	20.9	2.48	4.6	0.01
*Rep B00292805	0.23	54.3	11.2	42	35.3	4.35	8.0	<0.01
*Rep B00292817	1.63	124	30.5	57	101	7.24	10.5	<0.01
*Std OREAS920	0.06	77.1	14.2	44	106	3.92	7.0	<0.01
*Std OREAS151B	0.58	17.2	10.9	28	1960	3.59	7.5	0.02
*Std OREAS902	<0.01	30.0	956	21	3110	3.12	1.3	0.04
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292759	0.07	39.0	0.24	286	1.45	0.01	19.5	570
B00292760	0.07	37.2	0.21	272	1.35	0.01	16.9	540
B00292761	0.12	19.8	0.14	127	1.22	0.01	11.0	610
B00292762	0.08	34.7	0.18	346	7.41	0.01	26.6	320
B00292763	0.15	25.8	0.18	258	3.07	0.02	26.6	830
B00292764	0.13	27.1	0.20	129	2.53	0.02	16.7	510
B00292765	0.28	12.3	0.60	270	1.60	0.02	17.1	620
B00292766	0.14	28.3	0.33	220	3.67	0.02	16.6	640
B00292767	0.17	23.2	0.39	206	4.26	0.02	17.8	790
B00292768	0.11	17.4	0.27	135	1.84	0.02	10.7	530
B00292769	0.15	34.3	0.36	631	2.19	0.01	24.7	820
B00292770	0.11	15.1	0.33	127	1.13	0.03	14.0	690
B00292771	0.23	26.0	0.61	328	2.26	0.01	24.9	700
B00292772	0.12	23.8	0.60	342	1.91	0.02	24.6	1190
B00292773	0.15	61.9	0.30	612	1.72	0.02	17.5	850
B00292774	0.11	35.2	0.33	305	1.48	0.02	13.6	1110
B00292775	0.19	34.6	0.73	533	1.51	0.01	51.4	520
B00292776	0.10	31.2	0.18	267	1.81	<0.01	13.4	560
B00292777	0.22	38.6	0.49	1450	1.64	0.01	24.0	1080
B00292778	0.05	46.0	0.15	4520	3.02	0.02	70.5	2220
B00292779	0.11	19.3	0.61	928	1.14	0.01	23.9	800
B00292780	<0.01	0.6	<0.01	2	<0.05	<0.01	<0.5	<50
B00292781	0.12	17.2	0.65	196	1.22	0.01	15.0	1090
B00292782	0.11	23.7	0.16	452	1.54	0.01	11.0	1000
B00292783	0.14	44.9	0.10	2020	2.23	0.02	48.3	1030
B00292784	0.21	24.0	0.22	157	6.90	0.02	16.3	560
B00292785	0.09	28.9	0.29	221	1.62	0.01	19.1	720
B00292786	0.11	43.8	0.34	522	1.68	0.01	26.2	850
B00292787	0.09	41.1	0.21	351	1.32	0.01	18.1	590
B00292788	0.08	54.1	0.22	573	2.62	0.01	21.4	840
B00292789	0.08	36.1	0.18	190	2.84	0.01	14.2	540
B00292790	0.10	42.4	0.19	226	2.75	0.01	14.6	770
B00292791	0.10	31.4	0.21	293	1.65	0.02	21.9	690
B00292792	0.11	21.8	0.99	537	1.08	0.01	72.1	410
B00292793	0.16	97.5	0.05	49	8.25	0.03	5.5	420
B00292794	0.12	32.9	0.28	1830	0.75	0.01	60.3	680
B00292795	0.23	16.0	0.33	1770	0.67	0.01	34.4	560
B00292796	0.11	22.0	0.50	2710	0.81	0.01	28.9	670
B00292797	0.33	26.6	1.11	1720	2.24	0.01	37.0	530
B00292798	0.22	28.4	0.76	1840	1.21	0.01	32.4	950

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292799	0.67	29.5	0.91	809	3.22	0.01	26.8	630
B00292800	0.70	34.0	0.95	852	3.59	0.01	28.2	530
B00292801	1.01	18.1	1.71	933	3.13	0.02	41.1	710
B00292802	1.12	16.4	2.15	953	3.42	0.02	44.0	720
B00292803	0.17	13.2	0.25	762	2.08	0.02	17.3	700
B00292804	0.12	19.7	0.63	202	1.95	0.03	10.9	1020
B00292805	0.18	39.2	1.33	434	4.37	0.01	20.0	1120
B00292806	0.24	49.3	1.84	489	3.89	0.01	44.2	1180
B00292807	0.28	34.2	1.90	610	2.15	0.01	52.0	1790
B00292808	0.28	50.9	0.73	270	4.45	0.02	20.9	1240
B00292809	0.22	17.1	0.55	272	1.20	0.01	14.8	980
B00292810	0.19	22.4	0.86	371	1.15	0.01	21.7	900
B00292811	0.20	16.2	0.89	324	0.92	0.01	20.8	1280
B00292812	0.28	29.5	0.72	444	1.71	0.01	24.5	900
B00292813	0.20	8.1	0.18	137	2.32	<0.01	6.6	350
B00292814	1.29	19.4	1.58	1300	1.56	0.01	15.5	2560
B00292815	0.35	46.7	1.71	749	7.30	<0.01	84.3	2510
B00292816	0.24	44.7	2.03	824	12.1	<0.01	128	3220
B00292817	1.03	60.1	1.91	1460	5.14	<0.01	48.7	1210
B00292818	1.44	60.7	2.23	1540	9.06	<0.01	50.9	2140
B00292819	0.64	99.4	1.40	915	3.30	<0.01	14.9	1380
B00292820	<0.01	0.7	<0.01	<2	<0.05	<0.01	<0.5	<50
B00292821	0.44	43.9	1.90	1510	3.58	<0.01	59.7	1690
B00292822	0.84	77.8	1.84	1310	3.79	<0.01	58.2	1410
B00292823	0.46	57.3	1.79	1070	3.43	<0.01	55.5	1060
B00292824	0.17	24.0	1.10	500	3.24	<0.01	26.2	1210
B00292825	0.15	26.0	0.60	334	2.28	<0.01	22.6	1340
B00292826	0.17	32.0	0.89	399	1.46	<0.01	29.8	850
B00292827	0.13	16.0	0.63	297	0.52	<0.01	42.9	930
B00292828	0.20	21.5	0.82	277	0.62	0.01	50.1	790
B00292829	0.15	15.4	0.60	365	1.41	0.01	22.5	410
B00292830	0.27	32.5	0.93	562	3.22	<0.01	68.2	1150
B00292831	0.13	15.2	0.55	377	1.27	0.01	27.8	520
B00292832	0.12	16.3	0.75	308	1.51	<0.01	26.8	480
B00292833	0.20	19.2	0.64	376	1.81	0.01	34.9	980
B00292834	0.13	23.3	0.79	325	0.83	<0.01	39.9	750

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep B00292779	0.12	20.0	0.64	967	1.25	0.01	23.9	820
*Rep B00292805	0.20	41.1	1.38	458	4.52	0.01	21.1	1180
*Rep B00292817	1.06	61.7	1.92	1470	5.14	<0.01	48.6	1290
*Std OREAS920	0.43	38.2	1.16	566	0.39	0.02	41.7	750
*Std OREAS151B	0.40	7.7	1.45	310	57.0	0.16	16.2	550
*Std OREAS902	0.22	13.9	2.17	490	11.5	<0.01	167	670
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292759	43.0	9.7	0.95	1.7	0.3	9.2	9.7	0.03
B00292760	38.4	8.5	0.91	1.4	<0.3	8.3	7.9	0.03
B00292761	14.2	15.2	0.91	0.5	0.4	4.5	1.4	0.03
B00292762	186	7.4	3.40	1.1	<0.3	9.4	17.9	0.02
B00292763	75.0	12.3	2.83	1.2	<0.3	28.5	6.3	0.03
B00292764	57.9	9.6	1.35	1.3	<0.3	13.6	16.3	0.04
B00292765	12.9	37.5	0.30	2.4	1.1	7.4	2.4	0.18
B00292766	22.6	13.4	0.86	1.6	0.4	10.9	8.0	0.05
B00292767	50.5	17.1	1.28	1.5	0.5	11.0	4.3	0.05
B00292768	22.8	9.9	0.72	1.0	<0.3	7.4	2.6	0.05
B00292769	26.3	13.9	1.06	2.3	0.3	10.2	16.6	0.06
B00292770	15.4	13.2	0.35	1.4	0.3	7.8	1.5	0.05
B00292771	29.8	25.5	0.79	3.6	0.4	8.2	9.6	0.12
B00292772	23.5	13.3	0.46	1.5	0.6	8.9	0.8	0.08
B00292773	19.8	21.1	0.29	1.3	<0.3	8.7	1.6	0.05
B00292774	18.6	17.7	0.35	0.9	0.8	32.3	0.5	0.05
B00292775	17.5	28.1	0.43	2.6	<0.3	10.8	18.3	0.08
B00292776	22.7	10.9	0.31	1.0	<0.3	5.5	10.1	0.03
B00292777	18.8	28.6	0.37	2.6	0.6	16.6	3.2	0.07
B00292778	3.0	2.8	0.47	1.1	<0.3	93.2	3.7	0.01
B00292779	21.6	10.4	0.17	2.7	0.9	20.8	5.2	0.09
B00292780	0.5	<0.2	<0.05	<0.1	<0.3	0.6	0.3	<0.01
B00292781	17.9	13.0	0.13	2.3	0.4	10.4	5.4	0.05
B00292782	89.7	11.7	3.10	1.1	0.3	15.2	6.1	0.02
B00292783	26.8	15.0	0.39	1.1	<0.3	25.8	10.0	0.02
B00292784	1590	12.8	91.1	1.4	3.0	10.8	13.2	0.03
B00292785	25.8	9.4	1.72	1.5	0.3	8.7	7.6	0.04
B00292786	25.2	11.5	1.31	2.2	0.3	11.2	15.2	0.05
B00292787	26.5	8.7	1.12	1.4	<0.3	7.8	14.0	0.03
B00292788	73.5	9.1	1.79	1.3	0.3	8.8	7.0	0.03
B00292789	63.7	7.5	1.37	1.1	<0.3	8.8	9.6	0.03
B00292790	35.6	10.7	0.91	1.0	<0.3	9.7	6.5	0.03
B00292791	22.3	8.2	0.52	1.0	<0.3	9.4	9.4	0.03
B00292792	13.0	13.0	0.43	2.7	<0.3	7.8	5.1	0.09
B00292793	95.7	11.1	0.59	0.6	<0.3	19.8	40.6	<0.01
B00292794	6.4	14.3	0.17	1.8	<0.3	22.5	3.3	0.03
B00292795	15.4	22.9	0.07	1.9	<0.3	48.1	5.1	0.04
B00292796	13.3	13.3	0.16	5.0	<0.3	15.7	3.1	0.03
B00292797	19.7	34.2	0.11	5.5	0.4	40.8	6.0	0.08
B00292798	15.8	28.4	0.15	3.7	<0.3	45.4	3.2	0.05

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292799	27.2	51.1	0.12	4.4	0.5	29.6	13.5	0.16
B00292800	34.4	53.5	0.09	4.5	0.6	25.9	13.8	0.17
B00292801	20.2	74.6	0.08	7.1	0.6	29.1	6.4	0.23
B00292802	21.0	95.0	0.08	7.7	0.6	32.7	4.3	0.26
B00292803	45.6	22.8	0.27	0.8	<0.3	9.7	0.7	0.03
B00292804	6.3	12.6	0.07	1.2	0.3	44.4	0.6	0.05
B00292805	13.3	25.2	0.06	4.7	0.6	33.1	4.3	0.09
B00292806	25.5	34.4	0.10	9.1	0.5	34.4	5.6	0.09
B00292807	34.6	39.4	0.07	8.6	0.5	29.8	7.2	0.11
B00292808	16.8	40.0	0.05	3.3	0.5	30.6	4.5	0.07
B00292809	16.4	29.2	0.08	1.8	0.5	9.6	2.1	0.05
B00292810	14.6	29.9	0.16	3.3	0.6	10.6	2.6	0.09
B00292811	12.9	19.9	0.05	3.0	0.5	13.0	6.7	0.08
B00292812	6.5	71.9	0.09	1.6	0.6	24.2	1.6	0.07
B00292813	30.2	36.5	0.17	1.2	0.6	4.0	3.9	0.05
B00292814	16.2	131	0.13	9.0	1.0	45.5	3.0	0.39
B00292815	76.5	42.1	0.24	8.4	0.4	35.2	8.4	0.11
B00292816	95.5	33.4	0.34	9.0	0.4	36.7	7.8	0.09
B00292817	52.2	94.4	0.09	10.3	0.8	27.0	18.5	0.26
B00292818	50.8	112	0.11	12.1	1.2	47.1	17.6	0.29
B00292819	15.2	53.1	0.08	6.3	0.6	21.9	33.2	0.12
B00292820	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.4	<0.01
B00292821	66.6	46.0	0.13	11.7	0.7	33.6	9.4	0.10
B00292822	65.9	91.3	0.12	9.1	0.9	36.1	15.6	0.21
B00292823	59.4	53.3	0.11	7.8	0.6	24.8	10.7	0.14
B00292824	37.1	24.4	0.10	3.5	0.5	21.3	2.6	0.08
B00292825	29.7	23.3	0.14	1.7	0.4	22.1	1.2	0.04
B00292826	7.6	31.6	0.09	3.3	0.5	19.0	7.1	0.06
B00292827	10.1	15.2	0.15	2.3	0.8	10.9	2.8	0.08
B00292828	13.3	29.9	0.18	4.1	1.2	14.5	7.5	0.11
B00292829	10.7	40.9	0.24	2.6	1.9	10.5	2.6	0.09
B00292830	29.4	41.2	0.97	7.6	2.6	43.6	5.4	0.08
B00292831	10.5	36.3	0.42	3.2	1.6	23.0	3.4	0.08
B00292832	13.8	24.6	0.58	4.0	1.6	15.8	4.8	0.09
B00292833	20.4	43.2	0.44	3.0	2.0	24.1	1.2	0.07
B00292834	109	23.4	0.17	3.8	1.9	19.1	7.5	0.09

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep B00292779	20.9	10.9	0.19	2.7	1.0	21.1	5.3	0.09
*Rep B00292805	13.6	27.0	0.06	4.9	0.6	34.1	4.5	0.10
*Rep B00292817	54.0	94.5	0.11	10.4	0.9	27.8	19.1	0.25
*Std OREAS920	22.2	25.5	0.57	2.9	1.1	17.8	16.5	0.14
*Std OREAS151B	41.6	20.7	0.51	9.7	1.0	39.2	2.5	0.08
*Std OREAS902	9.9	8.2	0.81	2.6	<0.3	21.1	4.8	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
B00292759	0.15	3.22	21	0.3	17.7	486	N.A.
B00292760	0.14	2.76	18	0.3	15.5	426	N.A.
B00292761	0.12	1.17	20	0.2	3.91	93	N.A.
B00292762	0.26	3.57	11	0.2	12.6	527	N.A.
B00292763	0.33	1.78	27	0.2	6.40	205	N.A.
B00292764	0.16	2.40	17	0.1	7.69	164	N.A.
B00292765	0.19	1.03	58	0.8	5.23	58	N.A.
B00292766	0.18	2.89	25	0.2	6.90	117	N.A.
B00292767	0.28	2.65	29	0.3	6.75	149	N.A.
B00292768	0.13	1.30	25	0.2	4.41	94	N.A.
B00292769	0.26	4.20	24	0.3	19.8	574	N.A.
B00292770	0.20	1.40	24	0.2	7.90	365	N.A.
B00292771	0.58	2.45	39	0.4	12.7	285	N.A.
B00292772	0.16	3.14	45	0.2	11.2	361	N.A.
B00292773	0.31	4.08	20	0.1	24.6	142	N.A.
B00292774	0.12	3.01	31	0.8	15.1	112	N.A.
B00292775	0.31	2.64	22	0.2	16.9	537	N.A.
B00292776	0.18	3.23	12	0.2	11.2	185	N.A.
B00292777	0.24	2.04	34	0.3	15.8	94	N.A.
B00292778	0.14	2.11	6	<0.1	30.4	130	N.A.
B00292779	0.11	1.08	31	0.2	10.5	157	N.A.
B00292780	<0.02	0.08	<1	<0.1	0.67	3	N.A.
B00292781	0.18	0.72	25	0.1	6.49	101	N.A.
B00292782	0.18	1.99	13	0.1	13.0	79	N.A.
B00292783	0.15	4.22	7	<0.1	26.6	163	N.A.
B00292784	0.78	2.86	17	0.3	8.26	181	N.A.
B00292785	0.14	2.31	24	0.3	7.92	133	N.A.
B00292786	0.22	4.42	25	0.5	19.6	342	N.A.
B00292787	0.12	3.56	16	0.5	17.9	615	N.A.
B00292788	0.22	5.40	19	0.5	24.6	856	N.A.
B00292789	0.13	4.21	16	0.4	12.4	196	N.A.
B00292790	0.15	3.25	19	0.5	15.8	160	N.A.
B00292791	0.12	2.57	20	0.3	13.1	225	N.A.
B00292792	0.21	0.96	33	0.2	10.8	1110	N.A.
B00292793	0.41	1.10	3	0.2	7.53	293	N.A.
B00292794	0.21	2.04	19	0.1	8.11	502	N.A.
B00292795	0.23	0.98	15	<0.1	6.17	134	N.A.
B00292796	0.16	1.08	34	0.1	11.2	109	N.A.
B00292797	0.29	1.47	38	<0.1	12.4	153	N.A.
B00292798	0.22	1.26	32	0.2	13.5	105	N.A.

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
B00292799	0.34	2.24	39	0.1	11.9	135	N.A.
B00292800	0.38	2.15	39	0.1	11.7	146	N.A.
B00292801	0.47	1.38	69	0.1	8.39	216	N.A.
B00292802	0.51	0.93	83	0.2	5.56	284	N.A.
B00292803	0.19	1.14	18	0.1	4.49	158	N.A.
B00292804	0.09	15.8	33	0.1	9.97	99	N.A.
B00292805	0.18	9.37	62	0.1	19.3	177	N.A.
B00292806	0.20	7.47	82	0.2	36.4	210	N.A.
B00292807	0.30	3.39	104	0.2	20.1	486	N.A.
B00292808	0.25	40.0	39	0.1	28.9	124	N.A.
B00292809	0.25	1.79	35	0.1	9.02	60	N.A.
B00292810	0.24	1.52	53	0.2	11.3	90	N.A.
B00292811	0.17	1.17	41	<0.1	10.3	87	N.A.
B00292812	0.21	11.3	40	0.1	20.3	83	N.A.
B00292813	0.30	1.43	34	0.2	5.69	35	N.A.
B00292814	0.65	3.96	188	0.2	13.5	174	N.A.
B00292815	0.40	4.57	128	0.2	27.1	1580	N.A.
B00292816	0.39	7.17	192	0.3	31.0	2360	N.A.
B00292817	0.66	3.59	85	0.1	25.9	405	N.A.
B00292818	0.70	5.70	109	0.3	35.2	375	N.A.
B00292819	0.31	2.23	39	<0.1	29.6	87	N.A.
B00292820	<0.02	0.09	2	<0.1	0.66	2	N.A.
B00292821	0.41	2.58	90	0.3	21.6	1770	N.A.
B00292822	0.69	4.37	90	0.1	30.2	425	N.A.
B00292823	0.40	4.13	72	0.1	23.1	518	N.A.
B00292824	0.22	2.00	54	0.1	8.48	372	N.A.
B00292825	0.21	3.42	42	0.2	12.8	227	N.A.
B00292826	0.18	4.68	38	<0.1	18.3	75	N.A.
B00292827	0.14	0.70	26	0.5	6.69	49	4.50
B00292828	0.24	1.04	36	1.5	10.0	73	5.20
B00292829	0.21	1.60	34	5.0	4.72	185	4.03
B00292830	0.35	7.92	58	1.3	13.2	675	I.S.
B00292831	0.22	3.96	33	0.8	7.07	219	4.61
B00292832	0.22	3.82	41	0.8	6.27	369	4.44
B00292833	0.40	3.08	49	1.5	8.04	283	4.39
B00292834	0.21	1.23	35	5.0	8.08	154	4.28

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
*Rep B00292779	0.11	1.11	34	0.2	10.7	163	
*Rep B00292805	0.18	9.85	67	0.1	20.8	188	
*Rep B00292817	0.68	3.67	91	0.1	25.8	404	
*Std OREAS920	0.18	2.28	23	0.5	18.8	115	
*Std OREAS151B	0.14	0.63	144	0.6	11.1	251	
*Std OREAS902	0.25	2.17	10	2.1	7.10	6	
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1	
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1	
*Rep B00292834							4.29
*Std AMIS0267							7.75
*Blk BLANK							6.70

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Certificate of Analysis
Work Order : VC172755
[Report File No.: 0000024762]

Date: September 19, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01011
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package
37	GE_ISE15V	Paste pH on Soils and/or Sediments sample

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292835	0.410	<5	0.06	1.50	7	65	0.51	0.19
B00292836	0.255	<5	2.68	1.57	5	134	0.53	0.24
B00292837	0.310	<5	0.14	1.30	5	110	0.48	0.24
B00292838	0.140	<5	0.09	0.72	2	37	0.26	0.07
B00292839	0.095	<5	0.09	0.14	<1	41	0.18	0.04
B00292840	0.110	<5	0.10	0.12	1	29	0.20	0.04
B00292841	0.210	<5	0.61	0.76	2	65	0.12	0.12
B00292842	0.130	<5	0.12	1.68	5	112	0.44	0.28
B00292843	0.190	<5	0.07	2.42	5	216	0.50	0.33
B00292844	0.450	<5	0.02	1.19	6	53	0.59	0.12
B00292845	0.135	<5	0.08	0.14	<1	33	0.06	0.06
B00292846	0.215	<5	0.04	0.13	<1	14	0.11	0.03
B00292847	0.535	9	0.06	1.55	8	75	0.68	0.14
B00292848	0.285	<5	0.12	1.35	8	61	0.69	0.16
B00292849	0.245	<5	0.07	1.00	3	81	0.42	0.07
B00292850	0.445	<5	0.02	0.51	<1	34	0.30	0.07
B00292851	0.240	<5	0.01	0.32	<1	23	0.18	0.05
B00292852	0.225	<5	0.07	0.55	<1	55	0.16	0.13
B00292853	0.215	<5	0.05	0.51	1	42	0.23	0.14
B00292854	0.415	<5	0.03	1.11	3	62	0.36	0.21
B00292855	0.385	<5	0.04	0.83	3	48	0.42	0.14
B00292856	0.190	<5	0.19	0.43	3	38	0.13	0.15
B00292857	0.135	<5	0.14	0.77	2	77	0.15	0.42
B00292858	0.480	6	0.55	0.81	18	72	0.92	0.23
B00292859	0.210	7	0.63	0.96	13	72	0.75	0.12
B00292860	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
B00292861	0.260	11	2.20	1.63	9	290	0.44	0.34
B00292862	0.220	<5	0.80	1.08	6	139	0.30	0.13
B00292863	0.505	<5	0.49	1.37	10	260	0.81	0.39
B00292864	0.375	<5	0.35	1.17	9	149	0.55	0.32
B00292865	0.515	8	0.37	1.03	10	114	0.83	0.40
B00292866	0.160	<5	0.85	2.08	7	337	0.31	0.65
B00292867	0.255	5	0.37	1.95	12	297	0.39	0.65
B00292868	0.200	7	1.18	3.01	60	588	0.55	1.03
B00292869	0.185	8	0.67	1.75	59	477	0.32	0.94
B00292870	0.205	12	0.75	2.32	21	465	0.43	0.81
B00292871	0.145	<5	1.51	2.08	16	488	0.40	0.94
B00292872	0.550	8	0.31	0.60	32	165	0.50	0.04
B00292873	0.490	5	0.38	0.73	42	294	0.38	0.08
B00292874	0.340	5	0.74	1.08	27	229	0.88	0.09

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292875	0.495	<5	0.45	1.17	18	337	0.51	0.13
B00292876	0.400	<5	0.16	0.49	8	70	0.31	0.08
B00292877	0.470	<5	0.08	1.36	7	102	0.23	0.27
B00292878	0.590	18	0.14	1.86	9	167	0.93	0.31
B00292879	0.505	<5	0.11	1.09	8	108	0.24	0.19
B00292880	0.275	<5	0.77	0.87	6	161	0.21	0.11
B00292881	0.470	7	0.15	1.67	9	181	0.25	0.30
B00292882	0.335	<5	0.47	1.40	11	172	0.26	0.29
B00292883	0.300	<5	0.62	1.13	7	276	0.23	0.31
B00292884	0.570	<5	0.17	1.17	14	149	0.26	0.16
B00292885	0.420	<5	0.29	1.50	14	174	0.34	0.17
B00292886	0.365	<5	0.12	1.79	13	163	0.33	0.18
B00292887	0.435	<5	0.18	1.36	6	170	0.30	0.18
B00292888	0.415	<5	0.04	0.45	7	206	0.30	0.23
B00292889	0.505	<5	0.02	1.47	4	207	0.21	0.48
B00292890	0.360	<5	0.03	2.18	5	148	0.05	0.98
B00292891	0.240	<5	0.24	0.46	2	281	0.11	2.14
B00292892	0.270	6	1.48	1.37	8	821	0.21	0.84
B00292893	0.425	<5	0.83	1.63	13	199	0.37	0.78
B00292894	0.400	5	0.33	1.78	23	217	0.35	0.60
B00292895	0.505	14	0.13	1.60	22	160	0.29	0.49
B00292896	0.360	<5	0.58	2.06	21	1410	0.24	1.08
B00292897	0.430	<5	0.35	1.83	15	117	0.31	0.38
B00292898	0.275	<5	0.15	1.09	10	208	0.15	0.95
B00292899	0.385	<5	0.07	1.20	8	161	0.27	0.68
B00292900	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
B00292901	0.405	6	0.07	1.24	9	89	0.49	0.37
B00292902	0.425	<5	0.05	1.42	10	82	0.32	0.42
B00292903	0.290	<5	0.18	0.85	5	123	0.18	2.33
B00292904	0.565	<5	0.06	1.00	10	81	0.26	0.29
B00292905	0.455	7	0.33	1.39	6	174	0.19	0.88
B00292906	0.260	<5	0.07	0.62	2	30	0.11	0.03
B00292907	0.300	<5	0.12	1.18	6	199	0.25	0.63
B00292908	0.355	5	0.35	0.76	4	145	0.20	0.43
B00292909	0.425	6	0.09	1.56	9	101	0.26	0.41
B00292910	0.520	<5	0.40	3.10	16	204	0.30	1.14
*Rep B00292884		<5						
*Std OREAS151B		66						
*Std OXK119		3550						
*Std AMIS0282		188						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Blk BLANK	<5						
*Rep B00292839		0.08	0.14	1	42	0.17	0.04
*Rep B00292887		0.17	1.31	8	171	0.29	0.16
*Rep B00292892		1.54	1.41	10	825	0.21	0.86
*Std OREAS151B		0.54	2.38	33	68	0.38	1.36
*Std OREAS920		0.09	2.32	4	72	0.58	0.31
*Std OREAS151B		0.54	2.47	30	69	0.39	1.36
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep B00292872	<5						
*Rep B00292904	9						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292835	0.31	24.4	7.9	48	13.1	2.67	7.1	<0.01
B00292836	15.7	42.8	7.7	32	48.8	2.30	5.7	0.15
B00292837	0.57	37.4	8.3	37	13.3	2.29	5.6	<0.01
B00292838	0.28	16.3	5.0	49	6.8	1.11	4.7	<0.01
B00292839	2.61	4.04	8.2	3	6.9	0.37	1.3	<0.01
B00292840	1.06	2.77	4.8	3	3.3	0.44	1.1	<0.01
B00292841	0.37	29.5	6.2	9	17.8	1.36	3.8	0.01
B00292842	0.19	22.0	10.3	37	10.2	3.30	8.3	<0.01
B00292843	0.21	26.9	15.9	48	10.6	4.46	13.7	<0.01
B00292844	0.11	26.2	5.1	31	7.0	2.32	8.4	<0.01
B00292845	0.85	5.29	1.1	4	3.3	0.31	1.4	<0.01
B00292846	0.07	4.25	0.8	4	2.1	0.39	1.5	<0.01
B00292847	0.32	21.8	8.9	37	13.1	3.30	7.7	<0.01
B00292848	0.21	22.2	6.9	35	7.1	2.84	8.6	<0.01
B00292849	0.30	22.8	4.9	21	5.7	2.18	8.2	<0.01
B00292850	0.08	26.0	2.1	17	2.9	0.98	5.6	<0.01
B00292851	0.06	8.25	1.1	6	1.8	0.54	3.4	<0.01
B00292852	0.16	15.1	3.9	15	4.7	1.21	4.2	<0.01
B00292853	0.07	22.3	1.6	7	3.2	0.83	5.4	<0.01
B00292854	0.05	28.3	5.3	27	5.4	2.41	8.8	<0.01
B00292855	0.05	34.8	3.5	27	4.0	1.52	6.3	<0.01
B00292856	0.07	13.3	1.8	7	3.9	0.62	2.2	<0.01
B00292857	0.09	60.8	3.7	14	8.6	1.09	3.2	0.02
B00292858	1.39	110	4.4	14	74.8	2.37	3.4	0.03
B00292859	1.19	72.2	5.8	21	80.7	2.49	4.8	0.05
B00292860	<0.01	1.23	<0.1	<1	0.6	0.02	<0.1	<0.01
B00292861	1.46	65.7	5.8	44	27.3	2.84	7.4	0.15
B00292862	0.68	28.4	4.8	33	14.2	1.94	5.4	0.04
B00292863	1.26	62.8	7.9	34	47.2	3.02	5.8	0.04
B00292864	1.77	49.9	10.2	31	30.8	2.65	4.9	<0.01
B00292865	1.05	64.5	7.7	24	56.0	2.34	4.2	0.03
B00292866	3.34	67.4	9.2	47	34.0	2.59	7.4	0.11
B00292867	3.25	94.3	13.9	52	46.0	3.32	7.0	0.07
B00292868	11.2	235	19.4	72	101	4.10	10.8	0.18
B00292869	15.4	124	14.4	45	65.4	3.09	6.4	0.13
B00292870	13.1	107	13.6	59	59.9	4.18	7.9	0.16
B00292871	20.0	109	11.1	49	203	3.39	7.1	0.34
B00292872	0.19	42.8	3.0	11	13.7	2.11	2.6	0.04
B00292873	0.26	41.0	3.8	16	14.1	2.47	3.3	0.03
B00292874	0.26	45.0	5.4	24	17.6	2.79	4.6	0.08

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292875	0.62	37.3	7.0	33	15.2	2.40	5.3	0.04
B00292876	0.27	43.0	3.5	10	8.8	1.16	2.1	0.02
B00292877	0.25	30.4	8.6	41	15.4	2.50	5.5	<0.01
B00292878	0.40	36.4	11.5	54	20.0	3.30	6.8	0.01
B00292879	0.64	42.9	7.6	29	14.9	2.09	4.2	<0.01
B00292880	0.83	26.5	4.2	19	13.6	1.46	3.4	0.06
B00292881	0.39	33.0	11.9	53	20.2	3.08	6.2	<0.01
B00292882	0.50	44.6	8.9	41	17.1	2.16	4.9	0.04
B00292883	0.92	51.2	11.5	45	14.9	2.39	5.4	0.04
B00292884	0.96	57.5	8.4	35	15.8	2.31	4.3	0.01
B00292885	1.00	49.5	7.3	31	15.9	2.53	5.6	0.02
B00292886	0.77	70.6	7.6	41	15.2	3.25	8.1	<0.01
B00292887	0.90	68.4	4.9	28	11.6	2.08	5.6	0.02
B00292888	0.97	51.8	2.5	12	7.6	1.24	3.4	<0.01
B00292889	0.22	33.6	10.7	36	15.3	2.85	6.8	<0.01
B00292890	0.15	17.8	18.2	129	20.6	3.72	9.9	<0.01
B00292891	0.81	55.4	3.9	5	33.2	0.55	1.6	0.06
B00292892	5.49	280	48.1	23	116	2.52	5.4	0.05
B00292893	1.81	174	15.3	35	71.0	3.98	6.0	0.03
B00292894	1.67	80.4	19.2	53	40.0	4.51	7.8	0.02
B00292895	0.64	53.9	23.0	61	33.1	4.64	6.9	<0.01
B00292896	5.68	90.2	129	52	50.9	6.36	8.8	0.03
B00292897	0.38	38.5	19.2	50	56.6	4.08	6.6	<0.01
B00292898	1.09	33.4	11.5	49	59.2	1.88	5.4	<0.01
B00292899	0.39	35.5	11.0	34	32.0	2.84	5.7	<0.01
B00292900	<0.01	1.09	0.1	<1	0.6	0.02	<0.1	<0.01
B00292901	1.05	42.9	13.9	36	17.2	3.44	6.9	0.02
B00292902	0.39	37.6	10.9	42	23.3	3.26	6.4	<0.01
B00292903	2.50	26.4	5.5	14	59.7	1.42	3.0	0.03
B00292904	0.23	37.2	7.9	26	22.3	2.24	4.9	<0.01
B00292905	0.57	37.6	6.4	24	55.0	2.43	4.7	0.02
B00292906	0.10	11.2	1.4	7	2.8	0.81	3.5	<0.01
B00292907	0.58	31.0	9.2	33	20.5	2.57	6.3	0.01
B00292908	0.33	29.7	4.8	19	11.6	1.40	3.9	0.04
B00292909	0.39	49.1	11.4	31	20.7	3.15	6.2	0.01
B00292910	1.19	147	21.1	48	32.5	4.85	11.4	0.04

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep B00292839	2.53	3.98	8.0	4	6.7	0.34	1.3	<0.01
*Rep B00292887	0.95	66.5	4.9	28	11.5	2.11	5.4	<0.01
*Rep B00292892	5.51	284	49.2	24	119	2.60	5.7	0.05
*Std OREAS151B	0.56	15.7	10.6	26	1970	3.45	7.4	<0.01
*Std OREAS920	0.06	71.1	13.3	41	103	3.51	6.8	<0.01
*Std OREAS151B	0.56	17.1	10.4	27	1930	3.34	7.3	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292835	0.11	13.0	0.72	198	1.20	0.02	27.2	380
B00292836	0.15	24.6	0.58	455	1.58	0.03	25.1	960
B00292837	0.16	22.3	0.67	382	0.94	0.02	23.3	780
B00292838	0.08	9.4	0.39	216	0.77	0.02	16.0	280
B00292839	0.04	1.8	0.03	599	0.25	0.04	3.4	100
B00292840	0.04	1.3	0.04	915	0.22	0.03	2.0	120
B00292841	0.07	20.0	0.17	491	1.80	0.03	8.2	670
B00292842	0.33	12.4	0.73	379	2.99	0.02	16.1	390
B00292843	0.40	14.8	1.21	766	2.37	0.03	23.6	730
B00292844	0.17	13.7	0.52	188	1.46	0.02	13.0	280
B00292845	0.04	2.8	0.03	142	0.63	0.03	1.4	130
B00292846	0.04	2.2	0.03	38	0.43	0.03	1.9	150
B00292847	0.16	11.2	0.67	332	1.28	0.02	20.7	570
B00292848	0.11	11.6	0.58	329	1.71	0.02	12.7	660
B00292849	0.29	11.7	0.35	320	1.27	0.02	7.6	220
B00292850	0.07	13.6	0.18	149	0.67	0.02	7.5	380
B00292851	0.04	4.4	0.11	49	0.60	0.03	2.2	150
B00292852	0.09	7.6	0.23	304	1.39	0.03	6.4	220
B00292853	0.05	35.2	0.10	118	0.54	0.03	3.1	190
B00292854	0.24	15.5	0.54	210	1.41	0.02	9.6	260
B00292855	0.13	18.9	0.43	130	1.05	0.03	11.3	140
B00292856	0.06	10.1	0.09	83	0.38	0.04	5.0	240
B00292857	0.07	50.4	0.23	191	0.63	0.04	11.0	710
B00292858	0.16	50.6	0.34	350	2.10	0.01	12.0	1170
B00292859	0.14	42.4	0.36	337	1.56	0.02	11.0	830
B00292860	<0.01	0.6	<0.01	<2	0.06	0.01	0.6	<50
B00292861	0.31	38.9	0.55	291	1.14	0.02	19.6	1380
B00292862	0.21	17.1	0.44	199	1.15	0.02	13.0	830
B00292863	0.30	42.0	0.86	259	2.41	0.02	21.3	510
B00292864	0.31	22.5	0.71	548	1.45	0.02	19.3	920
B00292865	0.24	32.4	0.68	286	1.31	0.03	15.4	1150
B00292866	0.32	40.2	0.74	300	1.20	0.03	42.1	720
B00292867	0.37	45.2	0.94	391	1.42	0.03	43.1	1030
B00292868	0.47	118	1.21	1120	2.81	0.02	62.6	1090
B00292869	0.28	53.7	0.78	832	2.06	0.02	41.1	1000
B00292870	0.37	46.5	1.07	1740	1.45	0.02	41.8	940
B00292871	0.28	60.5	0.86	1250	1.68	0.03	38.1	1070
B00292872	0.16	22.9	0.16	99	4.60	0.01	10.8	380
B00292873	0.22	22.1	0.22	116	2.99	0.02	13.3	530
B00292874	0.29	25.4	0.34	192	3.68	0.02	14.1	720

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292875	0.19	20.3	0.51	265	2.79	0.02	17.8	700
B00292876	0.09	22.7	0.18	117	1.84	0.02	9.1	370
B00292877	0.24	14.9	0.74	311	1.12	0.02	22.2	1050
B00292878	0.34	18.5	1.03	407	1.52	0.02	29.2	1200
B00292879	0.17	21.3	0.52	357	1.35	0.02	20.3	730
B00292880	0.12	13.5	0.28	173	1.23	0.03	11.5	810
B00292881	0.27	18.5	0.98	371	1.27	0.02	28.2	1190
B00292882	0.18	26.2	0.67	304	1.38	0.02	22.0	1160
B00292883	0.13	25.4	0.56	905	1.95	0.02	17.6	1510
B00292884	0.19	31.9	0.57	317	1.89	0.02	22.8	720
B00292885	0.15	25.4	0.54	381	2.28	0.03	21.2	880
B00292886	0.13	37.2	0.72	419	2.97	0.02	20.2	890
B00292887	0.14	34.7	0.46	201	1.47	0.05	14.4	1000
B00292888	0.17	27.3	0.10	174	2.09	0.02	7.5	650
B00292889	0.14	16.1	0.80	365	1.09	0.02	19.1	1100
B00292890	0.01	10.6	1.65	513	0.59	0.02	29.5	760
B00292891	0.06	39.1	0.13	1430	2.01	0.01	41.7	2230
B00292892	0.04	110	0.14	>10000	3.00	0.01	111	6050
B00292893	0.06	110	0.62	1170	2.43	0.01	53.1	2430
B00292894	0.14	34.5	1.05	1580	1.41	0.01	50.9	1140
B00292895	0.09	18.6	1.01	1320	1.34	0.01	48.9	840
B00292896	0.09	37.3	1.24	>10000	1.76	0.01	132	1340
B00292897	0.06	17.6	1.09	714	1.20	0.01	47.4	830
B00292898	0.05	20.9	0.67	324	0.67	0.02	31.0	1310
B00292899	0.13	18.8	0.71	789	1.59	0.01	23.4	1150
B00292900	<0.01	0.5	<0.01	3	0.05	<0.01	<0.5	<50
B00292901	0.15	17.8	0.62	1440	1.63	0.01	22.0	1250
B00292902	0.22	17.1	0.83	405	1.30	0.02	28.2	700
B00292903	0.08	22.7	0.31	511	1.24	0.02	21.6	1190
B00292904	0.12	24.6	0.53	263	1.29	0.02	19.4	580
B00292905	0.05	27.1	0.56	261	1.26	0.02	20.3	1270
B00292906	0.03	5.8	0.15	41	0.66	0.02	3.4	240
B00292907	0.16	18.1	0.65	267	1.11	0.02	22.3	750
B00292908	0.08	20.3	0.34	184	0.99	0.02	11.2	850
B00292909	0.09	25.6	0.70	610	1.27	0.01	24.6	680
B00292910	0.07	57.8	0.75	1630	1.57	0.05	33.3	1850

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep B00292839	0.04	1.8	0.03	588	0.27	0.03	3.5	90
*Rep B00292887	0.14	34.3	0.48	199	1.45	0.02	15.3	950
*Rep B00292892	0.04	101	0.15	>10000	3.31	0.02	112	6200
*Std OREAS151B	0.40	7.5	1.35	300	57.6	0.19	14.9	530
*Std OREAS920	0.40	35.1	1.06	513	0.39	0.03	37.5	750
*Std OREAS151B	0.39	7.5	1.39	281	57.1	0.17	14.6	560
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292835	19.7	25.5	0.26	3.1	1.4	11.2	5.2	0.13
B00292836	220	22.9	0.48	2.5	1.1	15.8	1.5	0.06
B00292837	32.9	34.4	0.34	3.5	1.3	11.5	5.3	0.10
B00292838	14.8	30.5	0.12	0.7	0.9	5.7	0.2	0.06
B00292839	11.5	13.4	0.18	0.5	<0.3	5.6	0.6	0.03
B00292840	6.7	11.6	0.37	0.4	<0.3	4.7	0.4	0.03
B00292841	10.9	15.2	0.09	1.3	<0.3	7.8	0.5	0.05
B00292842	39.4	64.9	0.27	5.0	1.2	14.7	5.7	0.18
B00292843	40.9	133	0.16	10.8	2.3	17.2	2.6	0.24
B00292844	25.9	65.6	0.24	3.1	1.6	9.0	3.3	0.14
B00292845	2.3	5.9	0.06	0.6	<0.3	6.1	0.7	0.03
B00292846	4.4	5.8	0.07	0.4	0.3	3.1	0.4	0.02
B00292847	28.3	31.3	0.22	3.8	1.6	8.0	5.0	0.12
B00292848	42.5	34.5	0.18	2.3	1.4	10.7	2.6	0.11
B00292849	23.1	137	0.18	3.3	1.3	5.9	1.4	0.17
B00292850	7.8	15.2	0.07	1.0	1.4	4.5	1.3	0.10
B00292851	7.0	20.7	<0.05	0.4	0.6	7.3	<0.1	0.04
B00292852	6.6	26.9	0.08	1.3	0.7	10.9	2.2	0.08
B00292853	5.0	10.0	0.05	0.8	0.8	11.1	0.8	0.06
B00292854	10.4	96.4	0.05	4.2	2.2	12.7	4.9	0.19
B00292855	8.6	47.8	0.05	2.3	1.6	8.2	5.5	0.13
B00292856	5.6	12.1	<0.05	0.8	<0.3	8.4	0.7	0.03
B00292857	4.8	7.6	<0.05	1.7	0.4	16.8	1.6	0.04
B00292858	417	16.3	0.42	1.7	0.3	8.0	13.6	0.04
B00292859	58.1	18.0	0.22	1.6	0.4	6.7	3.4	0.06
B00292860	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.3	<0.01
B00292861	35.9	34.1	0.26	2.9	1.1	24.3	2.2	0.09
B00292862	14.4	23.2	0.21	1.7	0.8	9.6	0.7	0.07
B00292863	43.3	36.6	0.58	3.6	0.6	14.9	6.8	0.10
B00292864	49.5	30.6	0.53	3.1	0.6	12.8	7.7	0.10
B00292865	78.4	23.4	0.90	2.7	0.5	14.6	12.0	0.08
B00292866	16.9	30.5	0.54	4.0	1.0	28.5	2.4	0.09
B00292867	28.0	45.2	0.57	5.8	0.9	25.5	10.0	0.13
B00292868	47.7	58.1	0.84	7.7	1.2	37.8	8.9	0.14
B00292869	23.9	36.1	0.68	4.1	0.7	31.3	5.0	0.10
B00292870	28.6	42.3	0.65	5.4	0.9	30.4	6.4	0.12
B00292871	41.6	37.6	0.99	4.1	0.8	38.6	4.0	0.09
B00292872	45.1	8.9	1.64	0.8	<0.3	10.2	4.3	0.03
B00292873	46.1	10.4	1.76	1.2	<0.3	12.5	9.4	0.04
B00292874	74.9	16.8	1.49	1.8	0.6	10.5	5.5	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292875	36.5	20.2	0.95	2.0	0.7	11.3	3.7	0.08
B00292876	37.5	8.4	0.66	1.0	0.3	6.3	12.9	0.03
B00292877	15.3	24.6	0.27	2.8	0.6	10.8	3.9	0.13
B00292878	22.7	31.8	0.28	4.0	0.8	11.8	5.9	0.15
B00292879	21.9	17.4	0.48	2.4	0.4	8.7	9.2	0.09
B00292880	17.0	12.6	0.33	1.2	<0.3	7.5	1.0	0.05
B00292881	10.4	33.0	0.15	4.1	0.7	11.0	4.4	0.16
B00292882	15.6	20.3	0.19	3.2	0.5	11.0	3.4	0.09
B00292883	14.6	12.2	0.16	3.7	0.6	15.0	1.6	0.10
B00292884	25.8	26.8	0.37	3.2	0.4	7.8	6.8	0.11
B00292885	31.8	20.8	1.41	2.7	0.6	9.8	3.1	0.09
B00292886	25.3	17.4	0.41	2.5	1.1	11.7	1.2	0.10
B00292887	24.4	23.8	0.23	1.7	0.5	9.2	0.7	0.06
B00292888	7.4	21.8	0.22	0.3	0.4	10.2	0.1	0.02
B00292889	10.8	12.0	0.16	4.0	0.6	14.6	5.4	0.19
B00292890	1.8	1.1	0.06	3.7	1.0	28.2	4.7	0.30
B00292891	13.1	7.4	0.38	0.8	<0.3	60.0	3.3	0.01
B00292892	18.9	7.1	0.42	4.7	<0.3	36.2	11.1	0.02
B00292893	38.4	10.9	0.26	3.6	<0.3	30.6	4.3	0.02
B00292894	41.9	24.8	0.25	6.0	0.5	25.0	4.5	0.07
B00292895	43.5	14.4	0.24	6.8	0.4	18.0	4.3	0.06
B00292896	28.9	10.0	0.20	7.6	0.4	39.0	8.0	0.07
B00292897	59.2	9.6	0.30	5.0	0.3	19.9	4.5	0.06
B00292898	14.2	10.8	0.12	2.5	0.3	48.3	1.1	0.09
B00292899	17.3	23.1	0.23	3.4	0.6	31.5	1.9	0.06
B00292900	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.2	<0.01
B00292901	47.8	29.4	0.28	3.2	0.6	18.4	3.6	0.09
B00292902	20.7	46.8	0.23	4.3	0.8	24.0	4.8	0.11
B00292903	13.6	11.8	0.28	1.1	<0.3	97.2	1.0	0.03
B00292904	16.0	22.1	0.21	2.8	0.6	19.6	2.2	0.07
B00292905	70.2	8.6	0.19	2.0	0.3	47.9	1.5	0.03
B00292906	6.7	5.0	0.06	0.5	<0.3	3.5	0.1	0.03
B00292907	11.2	30.5	0.15	3.9	0.9	29.9	3.9	0.11
B00292908	7.1	17.4	0.14	1.6	0.5	26.0	0.8	0.04
B00292909	20.2	13.6	0.18	3.7	0.5	23.3	3.6	0.05
B00292910	46.6	14.6	0.22	3.2	0.8	126	1.8	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep B00292839	11.9	12.8	0.16	0.5	<0.3	5.3	0.5	0.03
*Rep B00292887	25.6	24.0	0.23	1.7	0.6	8.7	0.7	0.06
*Rep B00292892	18.8	7.6	0.45	5.0	<0.3	37.2	11.3	0.02
*Std OREAS151B	38.6	19.6	0.49	9.8	1.0	37.9	2.6	0.08
*Std OREAS920	20.5	22.6	0.57	2.7	1.0	16.2	16.0	0.11
*Std OREAS151B	38.5	19.4	0.52	9.7	0.9	36.8	2.6	0.08
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
B00292835	0.14	0.76	43	0.6	4.68	92	4.42
B00292836	0.85	7.78	29	0.9	13.1	2460	4.64
B00292837	0.23	1.16	36	0.7	7.00	227	4.06
B00292838	0.14	0.53	21	0.3	2.22	97	3.64
B00292839	0.06	0.12	9	0.1	0.46	37	4.11
B00292840	0.05	0.09	11	0.1	0.37	38	4.44
B00292841	0.26	2.90	31	0.2	6.33	86	4.27
B00292842	0.33	0.95	73	0.5	5.74	167	8.42
B00292843	0.37	0.98	162	0.7	6.74	148	4.22
B00292844	0.24	0.67	51	1.3	4.60	110	3.79
B00292845	0.04	0.12	10	0.2	0.60	24	4.14
B00292846	0.03	0.10	10	0.1	0.56	24	3.60
B00292847	0.16	0.63	49	0.6	4.65	211	4.31
B00292848	0.12	0.72	50	0.9	3.41	150	4.01
B00292849	0.24	0.41	74	1.8	2.71	96	3.54
B00292850	0.10	0.54	25	1.2	2.75	35	3.80
B00292851	0.08	0.32	15	0.2	1.25	19	3.64
B00292852	0.06	0.32	26	0.2	2.24	26	4.47
B00292853	0.06	0.47	19	2.9	16.8	24	5.21
B00292854	0.22	0.84	52	0.8	5.39	50	4.34
B00292855	0.15	0.75	36	0.6	4.79	33	4.05
B00292856	0.06	0.64	11	0.2	4.08	16	5.49
B00292857	0.07	1.75	15	0.2	20.4	25	5.20
B00292858	0.14	2.44	16	0.2	10.4	1480	3.90
B00292859	0.13	2.38	26	0.2	6.92	426	3.85
B00292860	<0.02	0.09	<1	<0.1	0.74	2	4.40
B00292861	0.28	5.68	43	0.4	14.0	136	4.45
B00292862	0.21	2.30	37	0.5	5.51	88	3.96
B00292863	0.25	3.68	41	0.2	20.1	311	5.68
B00292864	0.23	1.66	36	0.3	9.76	246	4.39
B00292865	0.22	2.32	27	0.2	12.6	318	5.45
B00292866	0.27	9.75	43	0.3	25.0	438	5.94
B00292867	0.31	9.06	52	0.4	25.1	377	5.42
B00292868	0.46	15.2	75	0.5	56.4	830	6.34
B00292869	0.33	10.9	41	0.3	28.9	1190	5.68
B00292870	0.41	5.51	56	0.4	29.0	1840	6.19
B00292871	0.47	11.1	47	0.6	34.0	3670	5.44
B00292872	0.16	1.19	18	0.3	3.73	86	N.A.
B00292873	0.20	1.15	21	0.3	3.96	87	N.A.
B00292874	0.31	2.30	27	0.5	5.84	122	N.A.

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
B00292875	0.20	1.78	37	0.5	6.30	130	N.A.
B00292876	0.10	1.68	12	0.3	5.85	133	N.A.
B00292877	0.19	1.20	45	2.4	6.79	87	N.A.
B00292878	0.26	1.53	67	0.6	8.66	302	N.A.
B00292879	0.17	1.77	32	0.3	8.75	330	N.A.
B00292880	0.12	2.07	24	0.2	6.60	197	N.A.
B00292881	0.25	1.35	57	0.3	9.64	193	N.A.
B00292882	0.21	3.57	38	0.2	11.5	306	N.A.
B00292883	0.15	4.39	46	0.4	11.3	158	N.A.
B00292884	0.25	3.14	33	0.4	15.5	409	N.A.
B00292885	0.19	3.42	35	0.3	11.1	451	N.A.
B00292886	0.16	5.65	49	7.2	17.4	269	N.A.
B00292887	0.17	3.92	30	0.3	14.9	394	N.A.
B00292888	0.09	1.41	19	0.2	7.96	73	N.A.
B00292889	0.09	0.77	72	0.3	7.73	114	N.A.
B00292890	0.02	0.64	60	0.2	6.19	124	N.A.
B00292891	0.16	1.72	6	<0.1	19.8	89	N.A.
B00292892	0.31	8.07	19	0.2	71.4	241	N.A.
B00292893	0.09	3.85	34	0.1	45.1	297	N.A.
B00292894	0.12	1.26	75	0.2	17.9	340	N.A.
B00292895	0.14	0.78	82	0.2	9.26	271	N.A.
B00292896	0.13	1.13	58	0.3	21.8	542	N.A.
B00292897	0.07	0.70	58	0.7	9.31	156	N.A.
B00292898	0.04	1.58	28	0.1	13.9	73	N.A.
B00292899	0.08	1.02	42	0.2	8.29	121	N.A.
B00292900	<0.02	0.12	<1	<0.1	0.67	1	N.A.
B00292901	0.10	0.82	51	0.5	6.95	251	N.A.
B00292902	0.15	0.79	49	0.3	7.06	128	N.A.
B00292903	0.08	2.22	20	0.1	12.0	117	N.A.
B00292904	0.10	1.53	35	2.4	7.37	112	N.A.
B00292905	0.06	6.74	30	0.1	14.1	226	N.A.
B00292906	0.08	0.46	17	<0.1	1.25	27	N.A.
B00292907	0.13	1.05	47	1.0	7.04	100	N.A.
B00292908	0.10	1.06	26	0.2	5.95	56	N.A.
B00292909	0.08	1.15	42	0.2	8.15	208	N.A.
B00292910	0.09	3.87	57	0.3	18.4	320	N.A.

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
*Rep B00292839	0.07	0.13	9	0.1	0.45	35	
*Rep B00292887	0.17	3.89	30	0.2	14.8	395	
*Rep B00292892	0.31	7.99	17	0.2	68.6	247	
*Std OREAS151B	0.13	0.64	148	0.6	11.0	257	
*Std OREAS920	0.15	2.23	22	0.5	17.3	114	
*Std OREAS151B	0.12	0.66	152	0.7	10.8	256	
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1	
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1	
*Rep B00292835							4.26
*Std AMIS0267							8.00
*Std OREAS251							8.17
*Blk BLANK							6.77

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Certificate of Analysis
Work Order : VC172756
[Report File No.: 0000024726]

Date: September 18, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01011
Project No.: KZK
Samples: 44
Received: Aug 28, 2017
Pages: Page 1 to 11
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
44	G_LOG02	Pre-preparation processing, sorting, logging, boxing
44	G_WGH79	Weighing of samples and reporting of weights
44	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
44	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292911	0.280	5	0.56	1.45	10	702	0.14	1.64
B00292912	0.355	8	0.25	1.81	15	175	0.11	0.97
B00292913	0.395	<5	0.07	1.36	10	84	0.16	0.11
B00292914	0.715	<5	0.15	1.47	12	95	0.21	0.18
B00292915	0.580	<5	0.05	1.64	22	108	0.14	0.20
B00292916	0.830	<5	0.12	1.52	16	119	0.21	0.21
B00292917	0.410	<5	0.25	1.83	18	93	0.21	0.21
B00292918	0.570	<5	0.43	1.62	22	109	0.29	0.76
B00292919	0.575	<5	0.06	2.12	7	183	0.21	0.48
B00292920	0.545	<5	0.11	1.61	13	136	0.23	0.30
B00292921	0.585	<5	0.07	1.45	13	98	0.25	0.33
B00292922	0.590	<5	0.04	1.48	9	99	0.29	0.47
B00292923	0.340	<5	0.16	1.88	12	163	0.23	0.69
B00292924	0.445	<5	0.33	1.43	3	179	0.31	0.65
B00292925	0.260	<5	0.06	1.21	5	66	0.19	0.31
B00292926	0.230	<5	0.03	1.09	3	48	0.16	0.17
B00292927	0.270	<5	0.23	1.52	11	118	0.24	0.34
B00292928	0.735	<5	0.13	2.00	23	85	0.15	0.37
B00292929	0.265	<5	0.34	1.42	30	139	0.20	0.60
B00292930	0.595	<5	0.37	1.56	7	113	0.52	0.18
B00292931	0.465	<5	0.08	1.31	16	128	0.20	0.50
B00292932	0.405	10	0.25	2.21	11	136	0.16	0.92
B00292933	0.335	<5	0.56	1.87	17	71	0.15	0.76
B00292934	0.445	<5	0.05	1.37	5	95	0.29	0.20
B00292935	0.510	<5	0.15	1.78	8	81	0.31	0.24
B00292936	0.490	<5	0.18	2.07	5	192	0.23	0.81
B00292937	0.465	<5	0.14	3.83	5	157	0.10	0.87
B00292938	0.460	10	0.61	0.79	72	303	0.42	0.06
B00292939	0.310	5	1.16	0.48	95	419	0.53	0.02
B00292940	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
B00292941	0.310	6	0.63	0.55	42	274	0.48	0.05
B00292942	0.435	5	0.82	0.82	29	201	0.59	0.04
B00292943	0.385	<5	0.66	0.71	30	180	0.46	0.03
B00292944	0.455	10	0.50	0.73	18	151	0.50	0.04
B00292945	0.375	<5	0.08	1.43	8	89	0.27	0.18
B00292946	0.330	<5	0.43	0.85	11	81	0.38	0.10
B00292947	0.625	<5	0.27	1.28	18	118	0.28	0.23
B00292948	0.415	<5	0.06	1.71	6	135	0.22	0.28
B00292949	0.440	<5	0.07	1.76	8	181	0.20	0.29
B00292950	0.115	6	0.85	1.47	3	264	0.21	0.28

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292951	0.510	<5	1.31	2.12	13	293	0.47	0.22
B00292952	0.500	<5	0.13	1.24	12	159	0.22	0.23
B00292953	0.505	6	0.11	0.73	8	78	0.21	0.17
B00292954	0.375	<5	0.10	0.92	7	123	0.24	0.08
*Std OREAS151B		67						
*Std OXK119		3570						
*Blk BLANK		<5						
*Blk BLANK		<5						
*Rep B00292919			0.06	2.18	7	186	0.21	0.50
*Rep B00292934			0.06	1.38	6	94	0.27	0.20
*Std OREAS920			0.09	2.46	6	78	0.79	0.33
*Std OREAS902			0.29	0.52	569	14	7.67	3.76
*Blk BLANK			<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep B00292916		<5						
*Rep B00292947		<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292911	1.34	118	12.1	24	106	2.41	4.5	0.09
B00292912	0.77	46.3	16.7	35	72.1	3.31	5.8	0.04
B00292913	0.15	44.7	9.8	23	17.6	3.22	6.6	0.02
B00292914	0.28	65.9	11.6	24	26.8	2.95	4.5	0.02
B00292915	0.14	73.6	11.8	25	36.2	3.88	5.0	0.01
B00292916	0.31	71.8	8.8	27	32.5	3.09	4.5	0.03
B00292917	0.62	57.1	15.5	27	29.0	3.50	5.9	0.02
B00292918	1.43	71.8	11.1	29	51.0	3.41	5.9	0.04
B00292919	0.22	53.4	16.9	58	21.8	4.21	11.0	<0.01
B00292920	0.38	72.0	10.9	36	34.2	3.42	7.0	0.02
B00292921	0.43	50.5	11.3	34	20.0	3.24	5.8	0.02
B00292922	0.39	46.1	9.7	36	13.4	3.00	6.6	<0.01
B00292923	0.44	62.7	9.3	37	24.8	3.70	6.7	0.02
B00292924	0.56	28.3	7.8	35	18.9	3.11	8.0	0.02
B00292925	0.38	32.8	9.4	30	13.2	2.21	5.6	<0.01
B00292926	0.25	21.3	5.9	23	9.2	1.74	6.8	<0.01
B00292927	1.02	84.2	13.6	32	27.5	3.30	5.0	0.02
B00292928	0.64	82.6	14.1	36	55.3	7.54	5.8	<0.01
B00292929	1.91	77.7	9.5	21	36.2	2.24	4.1	0.04
B00292930	0.50	74.5	9.1	28	60.0	3.19	6.8	0.03
B00292931	0.97	37.7	8.1	37	16.7	2.61	4.9	0.02
B00292932	1.32	258	7.2	24	19.0	1.92	5.7	0.04
B00292933	1.20	136	5.5	23	32.2	1.62	4.9	0.05
B00292934	0.47	46.1	7.7	32	14.6	2.12	7.1	0.01
B00292935	0.48	56.1	10.4	38	26.0	3.60	5.9	0.01
B00292936	0.80	65.7	22.7	52	36.6	3.90	8.8	0.02
B00292937	0.28	49.1	28.5	153	36.2	6.40	13.9	0.02
B00292938	0.40	47.8	4.8	20	36.9	2.47	2.4	0.16
B00292939	0.24	56.0	2.4	10	35.8	2.42	2.0	0.17
B00292940	<0.01	1.32	<0.1	<1	0.6	0.02	<0.1	<0.01
B00292941	0.55	53.5	3.6	9	29.9	1.86	1.8	0.21
B00292942	0.32	38.5	5.2	17	23.6	2.59	2.8	0.16
B00292943	0.39	50.5	4.6	12	19.9	2.09	2.6	0.11
B00292944	0.30	43.8	3.8	15	12.9	2.05	3.0	0.07
B00292945	0.13	36.2	8.5	41	14.9	2.26	6.1	0.01
B00292946	0.61	50.8	4.8	19	12.3	1.80	3.0	0.08
B00292947	1.10	51.1	12.2	32	24.4	2.46	4.2	0.06
B00292948	0.71	40.6	11.8	50	19.3	2.67	6.0	0.01
B00292949	0.88	41.6	9.8	46	20.1	2.69	6.0	0.02
B00292950	1.16	84.1	7.8	35	19.7	1.85	4.8	0.13

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Final : VC172756 Order: PO# BMC17-01011

Report File No.: 0000024726

Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292951	2.15	52.5	15.7	59	21.4	2.98	7.7	0.12
B00292952	0.93	37.5	7.4	38	9.0	2.26	4.0	0.02
B00292953	0.83	63.5	6.9	17	11.2	1.70	2.2	0.02
B00292954	1.31	38.5	4.4	19	12.3	1.72	4.8	0.02
*Rep B00292919	0.20	54.2	17.4	61	22.0	4.30	11.1	0.01
*Rep B00292934	0.51	45.5	7.6	32	14.5	2.16	7.2	<0.01
*Std OREAS920	0.07	75.3	13.5	44	114	3.86	6.8	<0.01
*Std OREAS902	0.02	31.2	971	21	3300	3.02	1.4	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292911	0.08	148	0.45	1330	1.60	0.01	34.4	1840
B00292912	0.08	30.8	0.97	944	1.08	0.01	28.8	1170
B00292913	0.05	20.8	0.55	354	1.63	<0.01	16.9	610
B00292914	0.05	31.8	0.55	355	0.96	0.01	24.9	790
B00292915	0.07	41.7	0.80	473	1.40	0.01	32.2	940
B00292916	0.04	43.9	0.78	287	0.72	0.01	29.0	780
B00292917	0.05	26.4	0.86	521	1.18	0.01	30.6	930
B00292918	0.06	55.0	0.66	861	1.45	0.01	25.7	830
B00292919	0.25	43.3	1.28	721	1.30	0.02	24.1	750
B00292920	0.09	45.0	0.85	553	1.60	0.02	30.1	920
B00292921	0.11	20.5	0.83	486	1.08	0.02	29.1	590
B00292922	0.09	19.3	0.69	385	0.80	0.02	21.9	420
B00292923	0.09	28.0	0.73	443	1.61	0.01	25.8	810
B00292924	0.07	20.3	0.66	382	1.00	0.02	17.3	710
B00292925	0.14	15.8	0.61	628	1.96	0.02	16.1	840
B00292926	0.17	11.3	0.55	194	1.09	0.02	8.4	550
B00292927	0.12	42.0	0.81	687	1.71	0.01	24.5	1280
B00292928	0.16	32.4	1.41	322	2.29	<0.01	32.3	1050
B00292929	0.12	56.8	0.56	262	5.16	0.02	23.0	1050
B00292930	0.16	40.2	0.76	235	1.45	0.01	22.1	430
B00292931	0.14	19.9	0.54	477	1.35	0.01	23.8	1170
B00292932	0.09	99.2	0.38	1160	1.28	0.02	17.9	2310
B00292933	0.06	124	0.32	684	0.87	0.02	14.2	1870
B00292934	0.11	28.8	0.51	386	1.65	0.02	17.8	760
B00292935	0.12	29.3	0.97	324	1.35	0.01	24.7	1330
B00292936	0.14	38.7	1.23	1070	0.79	0.02	30.0	1450
B00292937	0.15	33.4	2.92	373	0.38	0.01	70.6	2570
B00292938	0.12	25.1	0.19	96	4.80	0.01	25.6	760
B00292939	0.20	26.9	0.06	40	6.69	0.03	13.1	620
B00292940	<0.01	0.6	<0.01	<2	<0.05	0.01	<0.5	<50
B00292941	0.12	27.8	0.10	96	5.02	0.02	12.6	530
B00292942	0.22	19.4	0.25	180	4.77	0.03	14.4	530
B00292943	0.16	25.2	0.18	130	4.14	0.02	13.6	430
B00292944	0.18	22.0	0.25	95	3.19	0.01	10.7	410
B00292945	0.23	17.2	0.69	335	0.94	0.02	19.0	830
B00292946	0.13	25.2	0.30	293	2.28	0.01	13.2	560
B00292947	0.21	24.9	0.62	354	2.40	0.01	24.0	1010
B00292948	0.33	19.9	0.93	401	1.04	0.02	29.2	1030
B00292949	0.27	18.9	0.85	324	0.93	0.02	26.0	1250
B00292950	0.13	38.8	0.49	402	1.42	0.02	16.2	1180

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292951	0.25	26.1	0.75	570	3.04	0.01	31.8	1270
B00292952	0.17	18.3	0.63	282	2.44	0.01	22.4	940
B00292953	0.14	27.7	0.26	314	1.87	0.01	16.2	800
B00292954	0.06	16.8	0.18	445	2.08	0.02	8.4	1040
*Rep B00292919	0.26	44.9	1.30	747	1.45	0.02	25.2	800
*Rep B00292934	0.11	28.5	0.52	384	1.64	0.02	18.3	740
*Std OREAS920	0.46	37.7	1.13	545	0.41	0.03	37.6	740
*Std OREAS902	0.25	15.0	2.26	458	13.0	0.02	169	700
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292911	15.9	19.3	0.29	5.5	<0.3	70.4	3.5	0.02
B00292912	12.9	18.2	0.20	7.6	0.4	46.2	2.6	0.05
B00292913	16.0	9.3	0.24	3.1	0.4	6.7	3.2	0.04
B00292914	21.3	9.3	0.22	2.6	0.4	9.7	7.2	0.05
B00292915	25.4	9.0	0.20	3.1	<0.3	9.2	8.9	0.03
B00292916	19.0	5.8	0.23	3.4	<0.3	10.7	10.1	0.04
B00292917	46.9	8.9	0.28	2.9	0.5	11.7	5.5	0.05
B00292918	39.3	8.9	0.29	3.5	0.6	31.0	5.1	0.04
B00292919	18.5	37.1	0.17	5.9	1.3	17.4	8.2	0.25
B00292920	43.2	11.7	0.27	4.3	0.9	24.1	7.5	0.09
B00292921	44.8	17.1	0.25	3.8	0.8	20.4	7.1	0.09
B00292922	25.3	13.7	0.19	4.7	1.3	30.3	6.3	0.12
B00292923	24.7	12.2	0.23	4.8	0.5	34.0	3.8	0.04
B00292924	21.4	13.6	0.13	3.2	1.1	31.0	1.5	0.09
B00292925	12.0	30.8	0.07	3.6	1.1	19.5	4.8	0.11
B00292926	7.8	19.7	0.07	1.9	1.0	6.4	2.2	0.17
B00292927	51.5	17.3	0.14	3.4	0.3	15.6	5.5	0.05
B00292928	13.6	19.0	0.14	4.1	0.5	14.1	14.1	0.07
B00292929	60.8	14.9	0.09	2.2	<0.3	22.0	3.5	0.04
B00292930	33.3	30.3	0.14	2.5	0.7	12.2	4.1	0.07
B00292931	31.3	21.0	0.08	2.0	0.4	22.3	1.6	0.05
B00292932	27.4	12.1	0.35	1.2	0.5	39.7	1.1	0.04
B00292933	12.5	7.5	0.21	1.0	0.5	34.3	0.5	0.03
B00292934	24.4	19.5	0.23	1.7	1.1	20.5	1.0	0.08
B00292935	52.5	17.7	0.13	3.5	0.3	11.7	2.5	0.05
B00292936	26.8	22.5	0.15	6.4	1.1	39.3	3.8	0.12
B00292937	18.2	21.3	0.07	10.3	0.3	33.3	5.3	0.09
B00292938	86.3	9.8	4.37	1.4	<0.3	31.7	11.1	0.03
B00292939	121	7.5	4.93	0.7	<0.3	56.6	10.7	0.01
B00292940	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.4	<0.01
B00292941	76.2	8.8	2.89	0.7	<0.3	24.3	4.5	0.01
B00292942	115	11.3	2.37	1.2	0.3	17.0	7.3	0.03
B00292943	68.0	10.2	2.51	1.0	<0.3	12.4	8.6	0.02
B00292944	75.4	12.7	1.53	1.2	0.4	6.8	8.2	0.04
B00292945	19.9	22.9	0.20	2.9	1.0	7.4	5.3	0.12
B00292946	181	13.9	1.02	1.6	0.4	7.4	8.2	0.04
B00292947	55.1	22.2	1.13	2.9	0.5	11.3	8.6	0.09
B00292948	20.2	33.4	0.23	3.7	0.8	11.5	7.1	0.15
B00292949	16.1	28.0	0.20	3.3	0.8	14.3	2.7	0.12
B00292950	33.3	14.5	0.23	2.4	0.5	14.4	1.1	0.07

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292951	26.7	33.4	0.52	4.4	1.1	11.1	4.1	0.10
B00292952	22.1	20.3	0.26	2.9	0.5	9.6	5.5	0.10
B00292953	59.8	13.5	0.50	1.6	<0.3	7.8	11.1	0.05
B00292954	27.8	14.6	0.37	0.7	1.0	7.7	0.3	0.06
*Rep B00292919	19.1	36.9	0.16	6.1	1.3	18.1	8.2	0.26
*Rep B00292934	24.1	19.8	0.22	1.8	1.2	21.5	1.0	0.09
*Std OREAS920	21.5	25.1	0.54	3.1	1.0	17.8	16.8	0.14
*Std OREAS902	10.1	9.1	0.80	2.7	<0.3	22.0	5.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
B00292911	0.13	2.69	32	0.1	60.0	107
B00292912	0.12	0.89	60	0.4	17.9	108
B00292913	0.09	0.53	51	0.3	5.63	89
B00292914	0.10	0.93	32	0.5	7.00	165
B00292915	0.08	0.79	32	0.2	13.4	144
B00292916	0.06	0.72	32	0.3	16.9	160
B00292917	0.08	0.70	38	0.3	8.37	354
B00292918	0.11	1.42	38	0.5	31.4	299
B00292919	0.21	1.01	74	0.4	8.39	140
B00292920	0.10	1.22	42	0.3	18.2	206
B00292921	0.12	1.03	40	0.3	6.86	237
B00292922	0.14	1.11	49	0.4	6.89	143
B00292923	0.13	1.27	47	0.3	9.75	193
B00292924	0.12	1.04	50	0.2	7.50	203
B00292925	0.14	0.97	38	0.3	5.36	93
B00292926	0.11	0.51	40	0.2	4.10	44
B00292927	0.14	2.16	37	0.1	15.4	292
B00292928	0.15	1.26	37	<0.1	10.3	240
B00292929	0.14	6.48	23	<0.1	23.5	252
B00292930	0.23	1.30	33	1.1	8.06	227
B00292931	0.13	1.11	28	0.1	6.45	237
B00292932	0.11	4.97	24	0.2	31.6	119
B00292933	0.08	7.93	26	0.1	36.8	81
B00292934	0.11	1.51	39	0.3	7.24	57
B00292935	0.12	1.10	45	0.1	9.04	258
B00292936	0.13	1.17	58	0.2	19.3	161
B00292937	0.16	0.38	92	<0.1	16.6	223
B00292938	0.57	2.95	31	0.3	7.44	242
B00292939	0.73	2.65	17	0.2	4.27	165
B00292940	<0.02	0.11	2	<0.1	0.69	1
B00292941	0.43	2.50	16	0.2	5.33	161
B00292942	0.33	1.77	21	0.3	4.31	113
B00292943	0.32	1.89	15	0.2	4.91	130
B00292944	0.23	1.88	18	0.3	6.02	150
B00292945	0.19	1.12	41	0.4	6.04	55
B00292946	0.15	1.79	24	0.3	6.15	267
B00292947	0.21	2.36	36	0.3	9.97	578
B00292948	0.24	1.23	48	0.3	8.33	192
B00292949	0.24	1.35	53	0.3	8.37	141
B00292950	0.32	3.92	38	0.2	16.9	293

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Final : VC172756 Order: PO# BMC17-01011

Report File No.: 0000024726

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
B00292951	0.48	4.48	52	0.4	12.3	583
B00292952	0.23	1.75	39	0.3	8.13	457
B00292953	0.15	2.62	20	0.2	10.5	280
B00292954	0.17	3.69	35	0.4	8.65	110
*Rep B00292919	0.21	0.99	75	0.4	8.62	145
*Rep B00292934	0.11	1.53	39	0.4	7.33	59
*Std OREAS920	0.17	2.39	25	0.5	18.2	111
*Std OREAS902	0.26	2.38	9	2.3	7.14	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172758
[Report File No.: 0000024563]

Date: September 12, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01012
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006397	0.435	<5	0.19	1.12	3	274	0.35	0.07
D00006398	0.580	<5	0.07	0.94	4	137	0.43	0.13
D00006399	0.340	<5	0.11	0.33	3	79	0.19	0.13
D00006400	0.325	<5	0.09	0.21	2	56	0.11	0.04
D00006401	0.245	<5	0.08	0.54	6	49	0.26	0.02
D00006402	0.415	<5	0.11	0.70	8	109	0.22	0.18
D00006403	0.585	<5	0.06	0.44	3	45	0.16	0.05
D00006404	0.375	5	0.06	0.41	4	150	0.11	0.26
D00006405	0.405	7	0.32	0.43	2	169	0.13	0.67
D00006406	0.435	7	0.09	1.39	5	167	0.19	0.28
D00006407	0.325	<5	0.09	0.84	5	77	0.20	0.08
D00006408	0.380	<5	0.15	0.83	3	70	0.20	0.07
D00006409	0.200	<5	0.07	0.58	1	80	0.11	0.12
D00006410	0.280	<5	0.17	0.95	2	119	0.39	0.11
D00006411	0.450	<5	0.10	0.87	<1	117	0.19	0.18
D00006412	0.600	<5	0.04	0.92	25	100	0.69	0.26
D00006413	0.390	<5	0.20	1.20	10	125	0.99	0.17
D00006414	0.450	<5	0.15	1.18	11	86	3.68	0.14
D00006415	0.485	6	0.24	1.46	10	156	1.86	0.23
D00006416	0.400	14	0.17	1.26	15	112	1.81	0.15
D00006417	0.485	<5	0.17	1.49	10	135	0.96	0.16
D00006418	0.365	<5	0.28	1.43	8	166	1.55	0.22
D00006419	0.485	<5	0.04	1.11	8	56	0.70	0.07
D00006420	0.575	<5	0.05	0.82	6	59	0.15	0.09
D00006421	0.440	5	0.06	1.44	8	140	0.46	0.22
D00006422	0.545	7	0.09	1.25	6	76	0.55	0.29
D00006424	0.320	9	0.08	0.38	5	74	0.44	0.09
D00006425	0.270	<5	0.08	0.50	5	42	0.20	0.04
D00006426	0.365	15	0.30	0.64	9	56	0.40	0.05
D00006427	0.350	<5	0.08	0.74	8	74	0.39	0.17
D00006428	0.440	11	0.12	1.03	15	55	0.26	0.11
D00006429	0.530	5	0.01	0.19	3	28	0.16	0.02
D00006430	0.120	8	0.28	0.42	5	134	0.21	0.42
D00006431	0.395	7	0.11	0.94	7	88	0.19	0.12
D00006432	0.190	8	0.20	1.08	7	203	0.24	0.37
D00006433	0.410	<5	0.06	1.18	7	96	0.17	0.21
D00006434	0.105	8	0.03	0.26	<1	53	0.07	0.11
D00006435	0.425	<5	0.05	0.71	9	90	0.16	0.14
D00006436	0.275	<5	0.27	0.88	25	137	0.15	0.15
D00006437	0.205	6	0.29	0.68	9	67	0.21	0.15

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006438	0.320	<5	0.44	0.93	13	79	0.37	0.09
D00006439	0.175	<5	0.63	0.36	2	68	0.05	0.19
D00006440	0.195	5	0.45	0.40	4	56	0.08	0.15
D00006441	0.140	<5	0.53	0.85	2	69	0.06	0.59
D00006442	0.275	6	0.30	1.55	7	154	0.24	0.76
D00006443	0.190	<5	0.16	0.65	2	76	0.06	0.51
D00006444	0.430	<5	0.18	1.70	10	169	0.29	0.23
D00006445	0.275	<5	0.47	1.38	4	133	0.21	0.51
D00006446	0.235	<5	0.57	1.20	5	123	0.15	0.67
D00006447	0.450	<5	0.15	1.89	8	71	0.22	0.22
D00006448	0.080	9	1.94	0.53	1	68	0.07	0.08
D00006449	0.265	<5	0.39	0.72	3	76	0.16	0.04
D00006450	0.365	<5	0.11	1.70	9	107	0.21	0.25
D00006451	0.175	<5	0.22	0.41	1	54	0.04	0.34
D00006452	0.135	8	0.27	1.53	11	150	0.11	1.04
D00006453	0.245	13	0.32	2.28	35	103	0.16	0.78
D00006454	0.155	<5	0.29	1.30	7	160	0.09	0.73
D00006455	0.190	6	0.22	1.06	7	130	0.06	1.15
D00006456	0.530	5	0.13	1.94	13	121	0.17	0.45
D00006457	0.390	7	0.17	1.51	11	122	0.14	0.45
D00006458	0.535	5	0.07	1.78	17	90	0.26	0.31
D00006459	0.475	<5	0.24	2.29	18	78	0.37	0.14
D00006460	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00006461	0.330	6	0.45	2.67	39	62	0.26	0.10
D00006462	0.265	6	0.14	1.26	6	96	0.24	0.42
D00006463	0.410	5	0.10	2.18	21	118	0.32	0.32
D00006464	0.365	6	0.13	1.11	6	110	0.17	0.89
D00006465	0.360	5	0.09	2.32	22	106	0.22	0.47
D00006466	0.155	<5	0.13	0.39	<1	38	<0.02	0.39
D00006467	0.380	6	0.11	2.44	111	88	0.13	0.82
D00006468	0.715	22	0.33	2.28	16	127	0.19	0.42
D00006469	0.625	8	0.15	2.28	25	146	0.22	0.36
D00006470	0.250	6	0.20	1.66	18	109	0.14	0.90
D00006471	0.220	10	0.93	1.20	24	317	1.84	0.61
D00006472	0.215	<5	0.69	1.29	24	366	1.10	0.25
D00006473	0.200	9	0.22	1.12	16	77	0.45	0.16
*Std OREAS151B		68						
*Std OXK119		3620						
*Std AMIS0282		193						
*Blk BLANK		<5						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Rep D00006420		0.04	0.80	7	61	0.16	0.10
*Rep D00006427		0.08	0.76	8	76	0.41	0.17
*Rep D00006453		0.32	2.36	37	106	0.15	0.79
*Std OREAS920		0.10	2.20	4	76	0.77	0.32
*Std OREAS151B		0.54	2.26	33	70	0.36	1.33
*Std OREAS902		0.31	0.49	606	15	7.79	3.95
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00006398	<5						
*Rep D00006429	6						
*Blk BLANK	<5						
*Rep D00006468	6						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006397	0.48	94.6	6.0	16	7.9	2.35	4.7	0.02
D00006398	0.59	129	4.0	8	12.5	1.85	5.2	0.03
D00006399	0.18	76.9	2.7	8	6.6	0.96	1.8	0.03
D00006400	0.98	54.1	1.6	3	3.0	0.37	1.4	0.03
D00006401	0.09	53.2	2.2	6	6.3	1.16	3.5	0.03
D00006402	0.05	75.3	3.6	15	6.6	2.09	2.8	0.02
D00006403	0.13	45.4	3.4	4	6.4	1.60	2.0	0.03
D00006404	0.06	75.9	3.0	5	8.0	1.23	2.0	0.03
D00006405	0.12	123	1.8	6	8.3	0.93	2.6	0.07
D00006406	0.20	86.9	9.8	18	15.0	3.22	5.9	0.02
D00006407	0.15	56.3	5.4	16	9.1	2.22	5.5	0.04
D00006408	0.23	46.4	5.2	12	9.2	1.98	5.6	0.01
D00006409	0.21	36.9	2.5	9	6.8	0.99	2.7	0.02
D00006410	0.12	107	3.1	13	10.0	1.42	4.2	0.02
D00006411	0.16	94.3	4.8	10	7.4	1.91	4.0	0.01
D00006412	0.23	98.7	6.0	10	16.5	2.08	3.7	<0.01
D00006413	0.64	52.3	10.5	24	22.8	2.81	4.5	0.03
D00006414	0.78	78.6	8.3	24	317	2.97	4.3	0.02
D00006415	0.65	53.4	13.2	33	133	3.74	5.4	0.01
D00006416	0.41	61.9	16.3	38	98.0	3.43	5.2	0.03
D00006417	0.73	49.3	14.5	57	71.7	3.16	4.8	0.01
D00006418	1.34	33.1	9.9	48	77.8	3.17	5.0	0.03
D00006419	0.21	22.4	6.3	24	18.8	2.90	5.4	0.02
D00006420	0.14	78.7	4.5	10	7.8	1.95	2.9	0.02
D00006421	0.23	66.3	9.1	25	22.5	2.78	5.2	<0.01
D00006422	0.10	59.9	9.5	28	22.9	2.62	4.6	<0.01
D00006424	0.17	39.8	2.9	9	8.2	1.20	2.4	0.03
D00006425	0.08	27.1	1.8	10	5.5	0.88	3.6	0.04
D00006426	0.28	33.8	3.5	14	10.1	1.66	3.5	0.04
D00006427	0.23	39.8	5.0	18	9.9	1.77	4.1	0.02
D00006428	0.17	36.5	4.6	26	10.5	2.27	4.4	0.03
D00006429	0.06	32.3	2.2	8	5.4	0.90	2.8	0.01
D00006430	1.11	46.3	3.6	11	6.6	1.31	2.2	0.06
D00006431	0.23	71.1	6.3	16	7.9	2.28	3.9	0.02
D00006432	0.08	135	4.9	17	9.2	2.50	5.0	0.03
D00006433	0.07	66.6	7.4	14	8.7	2.98	5.3	<0.01
D00006434	0.13	24.8	0.6	5	2.0	0.34	2.5	0.03
D00006435	0.24	41.9	8.2	14	9.1	1.72	2.5	0.02
D00006436	0.11	35.9	7.8	14	9.2	2.06	3.4	0.04
D00006437	0.26	34.9	5.7	13	18.2	1.77	2.6	0.04

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006438	0.71	39.3	7.8	20	10.7	2.78	5.1	0.02
D00006439	0.03	18.7	2.1	9	9.3	0.53	1.1	0.06
D00006440	0.05	15.0	6.3	12	6.7	0.95	1.7	0.04
D00006441	0.29	33.3	3.1	5	12.2	0.89	2.8	0.02
D00006442	0.67	34.6	8.0	25	22.5	2.52	4.8	0.02
D00006443	0.22	13.2	2.0	7	9.0	0.75	2.1	<0.01
D00006444	0.31	55.0	11.2	37	40.2	3.29	6.4	0.03
D00006445	2.07	54.5	8.0	20	63.3	2.32	5.6	0.10
D00006446	0.58	37.8	4.6	16	24.6	1.82	4.1	0.04
D00006447	0.20	47.8	10.7	35	24.5	3.69	6.7	<0.01
D00006448	1.04	105	1.8	8	17.6	0.88	1.9	0.13
D00006449	0.10	42.9	2.1	7	5.0	0.88	5.9	0.02
D00006450	0.25	56.8	14.9	33	25.8	3.21	5.8	<0.01
D00006451	0.09	6.52	0.9	4	6.6	0.34	1.6	0.02
D00006452	0.65	23.0	7.4	27	20.3	2.30	4.7	0.04
D00006453	0.32	38.9	17.2	55	49.7	4.92	7.4	0.03
D00006454	0.38	17.5	7.3	20	17.0	1.78	4.5	0.03
D00006455	0.24	16.8	5.7	17	22.6	1.63	3.3	0.03
D00006456	0.15	46.3	11.6	43	31.1	3.73	6.0	0.02
D00006457	0.17	27.8	8.6	31	19.4	2.63	4.8	<0.01
D00006458	0.13	41.6	10.6	33	18.9	3.19	5.2	<0.01
D00006459	0.35	28.6	11.4	39	18.2	3.73	6.4	0.05
D00006460	<0.01	0.93	<0.1	<1	0.7	0.02	<0.1	<0.01
D00006461	0.18	26.8	19.8	41	60.6	7.06	9.4	0.03
D00006462	0.66	49.6	10.1	25	16.8	2.57	4.3	0.01
D00006463	0.29	39.7	15.5	47	32.0	4.26	7.3	0.03
D00006464	0.40	20.7	5.2	19	17.7	2.05	4.2	0.02
D00006465	0.21	57.0	14.4	52	38.0	5.13	7.6	0.02
D00006466	0.26	6.50	0.9	<1	12.2	0.27	1.4	<0.01
D00006467	0.26	29.2	24.3	26	32.6	5.50	9.6	0.02
D00006468	0.25	46.8	12.2	42	39.6	4.43	7.0	0.01
D00006469	0.38	46.7	17.4	46	41.3	4.50	7.1	<0.01
D00006470	0.91	36.8	14.6	28	33.3	3.62	5.0	0.02
D00006471	6.40	73.8	13.1	36	135	3.68	3.5	0.09
D00006472	2.07	85.4	15.4	31	66.9	3.53	3.8	0.08
D00006473	1.82	24.3	8.8	27	20.9	3.32	6.0	0.08

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006420	0.13	78.4	4.2	9	7.4	1.85	2.7	<0.01
*Rep D00006427	0.21	37.5	5.2	20	11.1	1.81	4.1	0.02
*Rep D00006453	0.34	40.6	17.5	56	52.8	5.05	7.8	0.03
*Std OREAS920	0.06	65.9	14.0	44	108	3.55	6.6	<0.01
*Std OREAS151B	0.57	15.3	11.2	28	1890	3.21	7.2	0.02
*Std OREAS902	0.03	30.4	979	22	3190	3.09	1.5	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006397	0.29	64.6	0.38	358	3.01	0.01	8.6	860
D00006398	0.38	66.3	0.32	340	0.97	0.01	8.0	660
D00006399	0.13	33.4	0.09	133	1.56	0.01	4.9	530
D00006400	0.10	27.8	0.02	195	1.18	<0.01	1.8	540
D00006401	0.12	26.5	0.03	105	3.08	0.01	4.3	570
D00006402	0.21	43.0	0.23	115	1.71	0.01	7.5	560
D00006403	0.20	20.7	0.07	320	1.75	0.01	3.9	500
D00006404	0.22	43.3	0.10	296	1.74	<0.01	5.5	810
D00006405	0.15	121	0.06	171	1.48	0.01	4.5	1340
D00006406	0.43	50.6	0.54	564	1.94	0.01	10.3	860
D00006407	0.35	27.3	0.32	323	2.07	0.01	7.2	380
D00006408	0.39	20.6	0.35	231	1.34	<0.01	5.5	210
D00006409	0.14	25.0	0.19	83	0.64	0.02	4.7	570
D00006410	0.22	72.7	0.22	146	1.49	0.02	6.8	660
D00006411	0.32	53.3	0.39	318	1.01	0.01	4.9	850
D00006412	0.32	45.1	0.45	338	1.50	0.01	8.3	940
D00006413	0.11	27.7	0.59	649	2.97	0.01	11.3	970
D00006414	0.12	45.9	0.64	571	2.97	0.01	12.3	750
D00006415	0.12	31.2	0.85	833	2.42	0.01	18.5	910
D00006416	0.17	35.7	0.80	872	2.36	0.01	18.6	670
D00006417	0.25	28.1	1.13	769	1.91	0.01	29.3	680
D00006418	0.24	20.2	0.90	567	3.90	0.01	21.2	440
D00006419	0.15	11.8	0.47	414	1.97	0.01	11.0	590
D00006420	0.19	39.4	0.19	222	1.30	<0.01	8.0	530
D00006421	0.21	47.4	0.84	566	1.65	0.01	14.5	740
D00006422	0.22	45.4	0.67	515	1.94	0.01	22.8	760
D00006424	0.13	20.8	0.06	122	2.01	0.01	6.3	300
D00006425	0.08	14.7	0.07	76	1.43	0.01	4.7	350
D00006426	0.10	18.1	0.11	101	1.85	<0.01	8.7	470
D00006427	0.14	20.6	0.21	152	1.92	0.01	12.3	460
D00006428	0.10	19.8	0.23	149	1.56	0.01	14.3	750
D00006429	0.09	18.0	0.01	70	1.09	<0.01	4.3	150
D00006430	0.20	25.6	0.11	101	2.10	0.01	7.0	490
D00006431	0.23	39.2	0.34	229	1.35	0.01	10.9	620
D00006432	0.29	95.3	0.35	238	2.27	0.01	10.2	890
D00006433	0.54	31.4	0.54	296	1.04	0.01	8.2	530
D00006434	0.09	18.5	0.03	49	0.58	0.02	1.2	320
D00006435	0.18	23.3	0.20	389	1.24	0.01	13.6	900
D00006436	0.29	20.1	0.29	359	1.33	0.01	8.1	600
D00006437	0.15	25.1	0.18	198	1.57	0.01	14.6	490

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006438	0.19	22.1	0.30	567	2.04	0.01	10.0	540
D00006439	0.04	12.1	0.07	128	0.35	0.03	3.6	1120
D00006440	0.05	9.3	0.15	279	1.07	0.02	4.5	770
D00006441	0.02	22.2	0.07	785	1.10	0.04	4.1	1520
D00006442	0.07	42.1	0.56	515	1.59	0.02	15.7	2300
D00006443	0.04	13.3	0.14	161	0.60	0.03	3.9	1390
D00006444	0.17	31.4	0.90	395	1.55	0.01	24.8	900
D00006445	0.12	161	0.49	670	1.14	0.01	20.5	790
D00006446	0.08	56.4	0.36	171	1.01	0.02	14.7	1260
D00006447	0.16	24.5	0.98	370	1.15	0.01	22.2	1000
D00006448	0.03	59.9	0.03	49	0.35	0.02	5.7	1260
D00006449	0.13	24.3	0.14	78	1.01	0.01	4.0	270
D00006450	0.19	30.7	0.83	590	1.40	0.01	23.8	1030
D00006451	0.03	4.5	0.06	61	0.21	0.04	2.5	700
D00006452	0.06	17.4	0.62	426	0.94	0.02	18.7	1270
D00006453	0.07	26.1	1.30	546	1.90	0.01	44.6	1150
D00006454	0.04	12.1	0.43	813	0.83	0.03	13.8	1210
D00006455	0.03	11.3	0.40	493	0.49	0.03	17.8	1040
D00006456	0.08	26.3	1.09	396	1.02	0.01	31.9	850
D00006457	0.07	15.6	0.71	493	1.03	0.02	21.4	990
D00006458	0.16	24.2	0.84	316	0.77	0.01	28.7	930
D00006459	0.14	16.3	0.76	311	1.31	0.01	26.2	700
D00006460	<0.01	0.5	<0.01	<2	<0.05	<0.01	<0.5	<50
D00006461	0.06	14.9	1.19	468	2.48	0.01	35.6	700
D00006462	0.23	29.7	0.72	482	1.07	0.01	16.4	1490
D00006463	0.16	21.9	1.04	564	1.23	0.01	36.1	1050
D00006464	0.06	16.8	0.41	373	1.75	0.03	14.4	1030
D00006465	0.08	29.9	1.40	269	1.25	0.01	36.4	1310
D00006466	0.02	4.7	0.06	29	0.15	0.04	5.0	480
D00006467	0.03	17.0	1.42	637	1.69	0.01	32.2	970
D00006468	0.05	26.6	1.31	337	1.49	0.01	31.0	1400
D00006469	0.08	25.6	1.33	1450	1.41	0.01	41.1	1370
D00006470	0.05	21.0	0.80	1020	1.30	0.02	27.3	1640
D00006471	0.27	48.9	0.51	982	4.50	0.01	25.2	1200
D00006472	0.28	48.6	0.57	1500	2.58	0.01	28.2	1100
D00006473	0.11	11.3	0.57	539	2.67	0.01	14.4	1630

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006420	0.19	38.0	0.18	221	1.23	0.01	7.6	520
*Rep D00006427	0.15	19.6	0.22	160	1.96	0.01	12.6	480
*Rep D00006453	0.08	27.5	1.33	546	2.01	0.01	46.1	1190
*Std OREAS920	0.40	35.9	1.07	545	0.38	0.03	38.0	740
*Std OREAS151B	0.39	7.4	1.38	291	58.8	0.16	14.9	540
*Std OREAS902	0.25	15.8	2.14	490	12.8	0.01	167	690
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006397	19.0	29.3	0.22	1.6	0.4	6.2	2.8	0.05
D00006398	32.4	38.6	0.17	2.9	0.8	8.0	26.6	0.09
D00006399	9.8	13.0	0.19	0.7	<0.3	7.3	2.5	0.03
D00006400	5.3	7.7	0.05	0.5	<0.3	3.6	3.2	<0.01
D00006401	9.8	15.3	0.21	0.6	0.4	3.2	1.2	0.01
D00006402	16.7	25.8	0.15	1.7	<0.3	8.3	8.2	0.05
D00006403	9.2	24.8	0.08	0.7	<0.3	2.4	2.4	0.03
D00006404	7.9	26.3	0.08	0.8	<0.3	10.4	7.1	0.03
D00006405	10.8	12.0	0.12	1.3	<0.3	19.3	7.7	0.02
D00006406	10.8	38.6	0.21	3.5	0.4	11.5	10.9	0.11
D00006407	16.3	35.5	0.21	1.8	0.6	5.0	4.0	0.15
D00006408	7.3	36.0	0.22	2.0	0.6	4.4	8.5	0.22
D00006409	4.5	15.6	0.05	0.9	<0.3	7.3	1.6	0.04
D00006410	14.8	29.8	0.15	0.8	0.4	7.3	1.0	0.03
D00006411	10.9	28.9	<0.05	1.6	<0.3	8.1	4.2	0.07
D00006412	21.6	38.4	0.10	2.2	<0.3	16.1	18.9	0.10
D00006413	65.1	17.6	0.13	1.9	0.4	8.6	2.2	0.06
D00006414	29.5	15.4	0.15	2.5	0.4	7.7	6.2	0.06
D00006415	28.8	16.5	0.16	3.3	0.4	10.3	6.8	0.06
D00006416	22.4	22.6	0.13	2.8	0.4	7.4	7.4	0.08
D00006417	32.7	29.3	0.26	3.9	0.3	9.8	9.7	0.12
D00006418	44.4	34.4	0.24	3.4	0.4	11.3	10.9	0.11
D00006419	17.5	20.7	0.16	1.7	0.5	6.6	2.6	0.09
D00006420	10.0	19.1	0.15	1.1	<0.3	5.6	5.8	0.04
D00006421	16.4	26.4	0.09	3.7	0.4	22.7	12.4	0.12
D00006422	18.5	33.9	0.13	3.4	0.4	35.3	11.5	0.09
D00006424	16.7	15.5	0.30	1.0	0.3	7.1	6.7	0.03
D00006425	11.1	11.5	0.27	0.6	0.5	5.2	0.4	0.03
D00006426	23.7	13.6	0.51	1.1	0.4	6.3	1.7	0.03
D00006427	14.5	19.6	0.39	1.9	0.4	9.7	4.0	0.06
D00006428	27.8	14.6	0.40	2.1	0.5	8.4	7.6	0.07
D00006429	11.3	9.8	0.24	0.7	0.5	3.6	4.2	0.03
D00006430	25.9	33.3	0.24	1.6	<0.3	20.8	8.1	0.03
D00006431	24.7	28.6	0.27	2.2	0.4	7.8	13.0	0.07
D00006432	22.7	35.0	0.26	2.2	0.5	17.9	7.3	0.06
D00006433	26.7	53.0	0.21	3.5	0.5	9.2	12.2	0.15
D00006434	2.0	6.5	<0.05	0.7	<0.3	4.9	1.3	0.02
D00006435	10.1	18.4	0.25	1.2	<0.3	6.4	1.9	0.04
D00006436	39.3	35.7	0.36	2.4	<0.3	8.3	2.6	0.07
D00006437	25.8	14.6	0.22	1.4	<0.3	10.7	2.9	0.03

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006438	39.0	40.8	0.26	2.0	0.6	7.9	6.5	0.07
D00006439	5.7	5.8	0.06	0.4	<0.3	10.9	0.2	<0.01
D00006440	28.0	6.3	0.07	0.8	<0.3	8.6	0.3	0.01
D00006441	4.2	1.5	<0.05	0.5	<0.3	30.6	0.3	0.02
D00006442	24.3	12.7	0.15	2.0	<0.3	39.9	2.3	0.03
D00006443	3.8	4.5	<0.05	0.6	<0.3	25.9	0.6	0.02
D00006444	46.2	21.6	0.21	3.8	0.4	12.1	3.6	0.09
D00006445	27.5	25.0	0.14	2.9	0.4	26.3	1.5	0.06
D00006446	11.7	13.9	0.15	1.7	<0.3	30.8	1.7	0.03
D00006447	28.7	19.9	0.12	4.0	0.4	10.1	8.1	0.11
D00006448	26.6	2.3	<0.05	0.7	<0.3	6.4	0.3	0.03
D00006449	8.7	9.0	0.08	1.0	0.6	2.9	4.5	0.08
D00006450	23.4	22.6	0.25	3.8	0.4	12.5	8.5	0.12
D00006451	2.4	1.8	<0.05	0.6	<0.3	18.9	0.6	0.02
D00006452	10.5	7.6	0.17	2.9	<0.3	43.0	1.7	0.03
D00006453	18.3	8.8	0.20	6.6	<0.3	37.3	4.1	0.04
D00006454	7.3	6.6	0.13	1.9	<0.3	28.1	0.8	0.02
D00006455	5.7	3.1	0.16	1.5	<0.3	41.7	0.8	0.02
D00006456	14.5	10.8	0.24	4.7	0.3	22.3	6.7	0.07
D00006457	10.4	9.2	0.21	3.6	<0.3	23.4	3.2	0.04
D00006458	14.4	22.3	0.23	3.5	0.5	13.3	7.8	0.10
D00006459	23.9	19.4	0.40	3.7	0.6	7.7	6.8	0.09
D00006460	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.3	<0.01
D00006461	15.9	10.6	0.38	5.6	0.5	6.7	4.8	0.10
D00006462	19.5	30.4	0.09	2.6	<0.3	18.0	4.8	0.09
D00006463	18.5	20.3	0.47	5.5	0.6	18.3	7.3	0.11
D00006464	13.0	11.1	0.19	2.6	<0.3	48.4	2.0	0.03
D00006465	23.8	10.0	0.22	5.8	<0.3	24.9	8.4	0.06
D00006466	1.6	0.7	0.07	0.4	<0.3	21.3	0.3	0.02
D00006467	10.4	5.5	0.18	8.1	<0.3	41.0	4.7	0.02
D00006468	52.6	8.3	0.33	4.7	<0.3	21.5	5.4	0.05
D00006469	28.9	12.3	0.31	5.5	0.3	19.0	5.9	0.06
D00006470	17.5	6.9	0.20	2.8	<0.3	37.2	2.1	0.03
D00006471	295	46.0	1.41	2.3	0.4	26.7	5.8	0.06
D00006472	114	39.2	1.12	2.3	0.3	16.0	4.2	0.06
D00006473	21.5	17.6	0.15	0.9	0.5	6.3	0.3	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006420	10.0	19.1	0.14	1.1	<0.3	5.5	5.7	0.04
*Rep D00006427	14.9	19.9	0.40	2.0	0.4	10.0	3.8	0.06
*Rep D00006453	18.8	8.8	0.24	6.7	<0.3	38.8	4.4	0.04
*Std OREAS920	20.1	25.5	0.53	2.8	1.1	16.8	16.1	0.12
*Std OREAS151B	40.0	20.2	0.49	9.3	1.1	37.9	2.6	0.07
*Std OREAS902	10.2	9.7	0.80	2.8	<0.3	21.4	5.3	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006397	0.28	2.68	35	0.2	16.3	165
D00006398	0.29	3.56	16	0.1	24.8	175
D00006399	0.08	1.22	14	0.1	6.54	29
D00006400	0.06	0.81	5	<0.1	4.44	20
D00006401	0.13	0.64	21	0.2	4.12	26
D00006402	0.24	0.98	22	0.1	7.70	54
D00006403	0.13	0.66	10	<0.1	4.71	27
D00006404	0.13	0.79	8	<0.1	12.0	22
D00006405	0.09	1.44	9	<0.1	20.0	18
D00006406	0.27	1.22	53	0.2	12.9	63
D00006407	0.24	0.70	52	0.2	5.70	62
D00006408	0.23	0.69	48	0.2	5.39	52
D00006409	0.12	0.88	14	<0.1	6.29	37
D00006410	0.22	1.84	21	0.2	16.2	46
D00006411	0.24	1.60	23	<0.1	17.8	52
D00006412	0.34	1.59	23	0.1	14.3	102
D00006413	0.20	4.31	44	0.2	9.93	357
D00006414	0.15	3.33	36	0.2	10.1	187
D00006415	0.14	2.20	44	0.2	9.76	179
D00006416	0.18	2.10	44	0.2	9.15	164
D00006417	0.27	2.17	52	0.2	9.34	233
D00006418	0.33	1.95	47	0.3	8.11	298
D00006419	0.22	1.41	46	0.2	4.66	82
D00006420	0.16	0.96	17	0.3	8.36	36
D00006421	0.21	2.95	44	0.2	15.5	120
D00006422	0.29	2.96	33	0.1	15.3	102
D00006424	0.15	1.01	25	0.5	3.95	50
D00006425	0.12	0.62	30	0.3	2.42	22
D00006426	0.19	1.31	39	0.7	4.25	37
D00006427	0.22	1.02	41	0.6	4.57	42
D00006428	0.18	1.13	43	0.4	5.27	41
D00006429	0.07	0.75	23	0.3	3.02	27
D00006430	0.20	1.13	20	0.1	4.71	31
D00006431	0.24	1.43	34	0.2	9.55	54
D00006432	0.28	2.26	31	0.2	17.5	51
D00006433	0.36	0.91	48	0.1	10.7	77
D00006434	0.07	0.32	9	<0.1	2.89	12
D00006435	0.14	0.78	22	0.2	5.79	48
D00006436	0.29	1.12	31	0.3	6.01	69
D00006437	0.14	1.04	23	0.2	5.77	90

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006438	0.16	0.79	42	0.3	3.46	93
D00006439	0.06	1.28	10	<0.1	4.08	9
D00006440	0.06	0.89	15	<0.1	2.98	18
D00006441	0.05	1.49	10	<0.1	8.21	54
D00006442	0.09	2.93	33	0.2	18.9	223
D00006443	0.05	1.28	11	<0.1	4.58	29
D00006444	0.19	1.23	56	0.2	10.1	235
D00006445	0.18	2.85	38	0.1	116	841
D00006446	0.12	3.88	21	<0.1	19.9	157
D00006447	0.20	1.09	53	0.1	7.78	161
D00006448	0.04	1.92	18	<0.1	12.5	16
D00006449	0.12	0.47	23	0.1	3.03	23
D00006450	0.23	1.12	50	0.2	9.60	130
D00006451	0.04	0.46	6	<0.1	2.06	8
D00006452	0.08	0.79	34	0.1	7.35	71
D00006453	0.08	1.06	65	0.1	12.9	137
D00006454	0.10	0.64	28	0.1	4.82	54
D00006455	0.06	0.90	22	<0.1	5.71	38
D00006456	0.10	0.83	48	0.1	9.51	110
D00006457	0.10	0.73	39	0.2	6.04	77
D00006458	0.21	1.05	39	0.3	9.87	83
D00006459	0.18	0.85	49	0.5	5.83	97
D00006460	<0.02	0.10	<1	<0.1	0.72	1
D00006461	0.12	0.72	86	0.3	5.62	105
D00006462	0.17	1.77	33	0.1	11.1	226
D00006463	0.17	0.95	62	0.3	9.29	118
D00006464	0.08	1.02	30	0.2	5.31	106
D00006465	0.11	1.09	60	0.2	10.1	141
D00006466	0.04	0.53	7	<0.1	2.64	11
D00006467	0.03	1.06	97	<0.1	9.82	122
D00006468	0.09	1.24	52	0.2	10.5	171
D00006469	0.13	0.94	56	0.4	11.1	191
D00006470	0.09	1.86	42	<0.1	9.98	140
D00006471	0.58	5.96	30	0.3	26.6	1180
D00006472	0.53	5.24	28	0.2	24.2	598
D00006473	0.16	1.88	102	0.2	5.77	108

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Final : VC172758 Order: PO# BMC17-01012

Report File No.: 0000024563

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006420	0.15	1.00	17	0.2	8.15	36
*Rep D00006427	0.23	1.01	42	0.4	4.40	44
*Rep D00006453	0.08	1.08	65	0.1	13.2	136
*Std OREAS920	0.17	2.25	25	0.6	17.8	106
*Std OREAS151B	0.14	0.66	152	0.6	10.7	241
*Std OREAS902	0.26	2.48	9	2.2	7.59	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172759
[Report File No.: 0000024727]

Date: September 18, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01012
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006474	0.515	13	0.66	0.38	49	136	2.36	0.17
D00006475	0.540	<5	0.09	0.58	8	45	0.63	0.06
D00006476	0.310	<5	0.15	0.50	5	108	0.39	0.12
D00006477	0.570	<5	0.08	0.43	4	99	0.61	0.05
D00006478	0.550	<5	0.11	0.78	15	80	0.35	0.15
D00006479	0.365	13	0.12	0.73	6	143	0.51	0.17
D00006480	0.120	<5	0.62	0.48	3	153	0.17	0.20
D00006481	0.275	<5	0.06	1.33	8	65	0.93	0.09
D00006482	0.475	<5	0.09	0.91	5	156	0.36	0.18
D00006483	0.595	<5	0.10	1.20	8	102	0.30	0.16
D00006484	0.230	<5	0.13	0.59	3	59	0.07	0.14
D00006485	0.180	7	0.03	0.37	<1	23	0.02	0.62
D00006486	0.305	<5	0.14	1.48	13	59	0.20	0.17
D00006487	0.405	<5	0.06	0.72	10	65	0.23	0.04
D00006488	0.210	<5	0.16	0.42	3	99	0.15	0.23
D00006489	0.205	5	0.25	0.49	3	50	0.17	0.08
D00006490	0.105	<5	0.94	0.43	4	85	0.10	0.11
D00006491	0.215	<5	0.27	0.34	2	53	0.09	0.07
D00006492	0.235	<5	1.05	0.76	6	102	0.13	0.39
D00006493	0.405	<5	0.09	0.74	16	88	0.26	0.33
D00006494	0.330	8	0.10	0.67	5	100	0.19	0.34
D00006495	0.385	6	0.36	0.41	91	88	0.73	0.56
D00006496	0.425	8	0.15	0.33	9	39	0.26	0.16
D00006497	0.455	<5	0.12	0.80	6	92	0.17	0.17
D00006498	0.470	<5	0.11	0.60	14	98	0.20	0.23
D00006499	0.285	<5	0.11	0.58	14	88	0.46	0.17
D00006500	0.420	<5	0.08	0.77	14	111	0.33	0.23
D00006501	0.265	6	0.35	0.73	21	250	0.29	0.07
D00006502	0.150	9	0.95	0.67	47	292	0.37	0.03
D00006503	0.190	<5	0.64	1.42	7	464	0.26	0.19
D00006504	0.235	8	2.11	0.94	4	465	0.38	0.10
D00006505	0.480	5	0.30	0.87	15	116	0.34	0.12
D00006506	0.485	5	0.14	0.67	12	84	0.26	0.11
D00006507	0.545	<5	0.21	0.71	14	82	0.36	0.13
D00006508	0.455	5	0.10	0.95	10	58	0.44	0.06
D00006509	0.480	5	0.02	0.70	7	53	0.17	0.06
D00006510	0.520	<5	0.11	0.73	10	107	0.23	0.14
D00006511	0.105	<5	0.03	0.46	2	27	0.06	0.03
D00006512	0.100	7	0.19	0.77	2	212	0.12	0.55
D00006513	0.405	11	0.04	1.19	6	70	0.27	0.21

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006514	0.205	<5	0.29	1.02	4	233	0.28	0.32
D00006515	0.390	<5	<0.01	1.73	4	134	0.30	0.32
D00006516	0.160	7	0.06	1.55	5	172	0.38	0.28
D00006517	0.145	6	0.09	0.75	7	119	0.23	0.23
D00006518	0.190	7	0.07	1.69	1	177	0.17	0.40
D00006519	0.365	<5	0.02	1.48	4	126	0.20	0.34
D00006520	0.445	<5	0.02	1.49	3	129	0.20	0.34
D00006521	0.530	<5	0.03	1.47	4	104	0.20	0.30
D00006522	0.395	<5	0.02	1.54	6	113	0.27	0.43
D00006523	0.365	<5	0.03	0.89	3	97	0.24	0.27
D00006524	0.470	<5	0.03	0.99	4	115	0.25	0.34
D00006525	0.525	<5	0.02	1.16	5	74	0.22	0.26
D00006526	0.410	<5	0.21	2.43	10	168	0.16	0.59
D00006527	0.405	6	0.07	0.80	<1	124	0.19	0.31
D00006528	0.440	<5	0.07	0.64	1	101	0.21	0.38
D00006529	0.415	<5	0.07	0.49	2	88	0.19	0.23
D00006530	0.365	14	0.03	0.43	6	42	0.22	0.02
D00006531	0.500	<5	0.04	0.61	2	103	0.22	0.25
D00006532	0.320	6	0.07	0.69	4	120	0.26	0.38
D00006533	0.470	<5	0.10	1.02	13	238	0.20	0.37
D00006534	0.445	<5	0.02	0.64	1	64	0.23	0.21
D00006535	0.285	8	0.07	1.55	6	129	0.36	0.22
D00006536	0.320	8	0.20	1.10	4	83	0.58	0.27
D00006537	0.325	<5	0.12	2.35	3	114	0.17	0.93
D00006538	0.180	8	0.08	0.67	<1	83	0.33	0.25
D00006539	0.310	<5	0.09	0.64	<1	82	0.28	0.36
D00006540	0.110	<5	<0.01	<0.01	<1	<5	<0.02	<0.01
D00006541	0.295	<5	0.04	0.40	<1	67	0.22	0.60
D00006542	0.380	<5	0.09	0.75	55	91	0.24	0.40
D00006543	0.175	9	0.14	0.72	14	155	0.34	0.25
D00006544	0.380	5	0.07	2.63	21	114	0.30	0.94
D00006545	0.405	<5	0.08	1.67	22	138	0.15	0.96
D00006554	0.310	<5	0.04	2.67	15	231	0.13	0.56
D00006555	0.505	<5	0.05	1.04	7	167	0.26	0.35
D00006556	0.135	<5	0.22	1.34	7	191	0.34	0.60
D00006557	0.215	<5	0.14	0.85	6	119	0.50	0.41
*Std OREAS151B		68						
*Std OXK119		3700						
*Std AMIS0282		188						
*Blk BLANK		<5						

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Final : VC172759 Order: PO# BMC17-01012

Report File No.: 0000024727

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Rep D00006485		0.04	0.37	<1	23	0.03	0.65
*Rep D00006516		0.07	1.60	5	177	0.38	0.28
*Rep D00006538		0.07	0.67	<1	86	0.38	0.25
*Std OREAS151B		0.55	2.50	34	72	0.41	1.38
*Std OREAS902		0.29	0.53	615	16	8.95	4.27
*Std OREAS920		0.10	2.39	4	74	0.66	0.33
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00006474	7						
*Rep D00006510	<5						
*Blk BLANK	<5						
*Rep D00006555	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006474	4.14	41.3	11.4	7	68.5	3.19	1.3	0.08
D00006475	0.34	39.1	6.5	15	11.9	1.64	2.9	0.02
D00006476	0.32	43.7	4.1	13	10.8	1.37	2.4	0.03
D00006477	0.14	59.2	4.7	7	11.4	2.31	1.7	<0.01
D00006478	0.21	91.5	4.4	15	12.8	1.72	2.7	0.02
D00006479	0.30	61.6	6.5	16	14.9	2.00	3.6	0.02
D00006480	0.38	60.3	6.7	9	10.6	1.34	2.7	0.02
D00006481	0.95	76.5	12.6	49	47.7	3.00	4.4	0.01
D00006482	0.45	78.6	6.2	18	13.3	1.99	3.8	<0.01
D00006483	0.41	68.0	6.8	23	15.4	2.13	4.2	<0.01
D00006484	0.13	14.5	1.9	7	5.7	0.51	1.8	0.01
D00006485	0.09	4.05	0.8	3	4.4	0.30	1.3	<0.01
D00006486	0.17	33.2	7.3	27	9.5	2.95	5.1	0.02
D00006487	0.07	32.2	3.5	9	5.9	1.84	5.5	0.01
D00006488	0.07	20.1	1.5	5	3.5	0.66	2.7	<0.01
D00006489	0.20	13.8	1.2	9	5.3	0.66	2.6	0.02
D00006490	0.58	21.2	3.6	9	10.2	1.33	1.6	0.06
D00006491	0.18	12.5	5.7	6	3.7	0.72	2.4	<0.01
D00006492	0.46	16.5	5.4	11	7.8	1.59	3.6	0.02
D00006493	0.07	46.9	5.1	12	6.2	2.25	2.9	0.02
D00006494	0.07	51.7	3.8	10	7.3	1.96	2.9	0.02
D00006495	0.16	36.7	4.4	4	9.6	2.21	1.6	0.04
D00006496	0.13	29.7	4.3	8	11.8	1.54	1.2	0.02
D00006497	0.05	52.7	5.5	15	7.3	2.42	3.6	0.02
D00006498	0.14	54.7	5.1	13	7.2	2.18	2.7	0.02
D00006499	0.16	50.8	4.0	12	8.0	1.93	2.8	0.01
D00006500	0.08	54.5	4.5	15	7.7	2.07	3.3	0.02
D00006501	0.65	53.1	4.9	15	24.9	1.78	2.5	0.05
D00006502	0.66	42.3	2.5	23	27.2	1.94	2.5	0.15
D00006503	6.76	44.5	8.4	59	48.8	1.38	3.4	0.19
D00006504	1.90	51.6	2.3	25	40.6	0.56	3.7	0.34
D00006505	0.52	47.5	6.1	23	16.3	1.95	3.0	0.05
D00006506	0.21	41.4	3.3	17	9.1	1.30	2.3	0.01
D00006507	1.44	47.1	6.2	16	13.6	1.63	2.3	0.04
D00006508	0.62	45.0	4.7	20	10.4	2.10	3.4	0.03
D00006509	0.16	57.7	2.9	13	6.6	1.41	2.5	0.01
D00006510	0.39	123	8.4	12	27.6	2.61	2.5	<0.01
D00006511	0.08	11.4	1.4	6	6.9	0.61	2.1	0.02
D00006512	0.10	33.9	3.0	14	12.8	1.01	2.8	0.07
D00006513	0.20	41.2	7.8	38	11.0	2.41	5.4	0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006514	0.14	41.6	5.4	13	11.4	2.20	3.3	0.04
D00006515	0.07	35.2	11.2	57	14.8	3.00	7.1	0.01
D00006516	0.11	32.6	11.3	44	16.3	2.68	7.2	0.02
D00006517	0.38	49.2	7.4	23	10.5	1.32	3.8	0.04
D00006518	0.15	43.1	11.7	37	15.1	3.07	6.9	0.01
D00006519	0.09	60.3	8.2	31	13.4	3.08	5.1	<0.01
D00006520	0.07	59.1	7.2	30	11.6	3.04	5.1	<0.01
D00006521	0.04	63.0	6.1	27	13.6	2.79	4.7	0.01
D00006522	0.07	30.6	10.2	42	10.8	3.26	6.4	<0.01
D00006523	0.08	49.5	6.8	16	7.8	2.95	3.6	<0.01
D00006524	0.04	45.2	5.0	17	6.7	2.36	3.6	<0.01
D00006525	0.03	43.1	5.2	23	6.2	2.90	4.2	<0.01
D00006526	0.10	34.5	17.5	75	17.8	6.03	8.1	<0.01
D00006527	0.05	57.2	2.9	10	5.5	2.08	2.9	<0.01
D00006528	0.03	39.0	3.0	7	5.3	1.95	2.1	<0.01
D00006529	0.04	44.0	3.1	6	8.9	1.94	1.5	0.01
D00006530	0.05	35.9	2.2	3	5.1	1.80	2.1	0.02
D00006531	0.09	46.2	4.4	6	11.3	2.25	2.1	<0.01
D00006532	0.06	37.2	3.9	9	7.9	2.28	2.4	0.02
D00006533	0.22	67.5	19.3	24	43.8	4.76	3.6	0.01
D00006534	0.07	74.5	5.7	7	9.4	2.38	2.2	0.02
D00006535	0.10	52.2	9.5	48	15.6	3.13	7.8	0.04
D00006536	0.06	278	9.9	18	20.6	4.49	4.7	0.02
D00006537	0.13	77.1	11.3	57	20.0	5.01	8.1	0.03
D00006538	0.06	37.1	3.8	5	6.4	1.49	3.2	0.02
D00006539	0.17	55.3	4.0	5	9.9	2.51	2.0	0.01
D00006540	<0.01	1.09	<0.1	<1	0.5	0.02	<0.1	<0.01
D00006541	0.10	24.8	3.8	2	14.4	2.36	1.2	0.02
D00006542	0.25	64.0	9.9	8	19.4	3.61	2.6	0.01
D00006543	0.19	55.1	9.5	6	13.2	3.14	2.1	0.06
D00006544	0.18	63.6	34.4	93	20.7	6.16	6.5	0.01
D00006545	0.20	79.5	30.5	59	37.9	4.77	4.9	0.01
D00006554	0.07	51.2	23.3	33	54.5	6.24	9.3	0.01
D00006555	0.09	80.7	8.3	17	13.5	2.85	3.4	<0.01
D00006556	0.32	38.0	6.1	22	15.8	2.21	4.2	0.03
D00006557	0.13	72.0	4.2	10	16.2	2.23	3.0	0.03

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006485	0.09	4.10	0.8	2	4.1	0.30	1.3	<0.01
*Rep D00006516	0.10	32.8	11.8	47	16.8	2.74	7.1	0.01
*Rep D00006538	0.05	37.3	3.9	6	5.8	1.50	3.1	0.03
*Std OREAS151B	0.60	14.9	11.0	30	1890	3.43	7.7	0.01
*Std OREAS902	0.02	30.6	974	25	3140	3.23	1.6	0.06
*Std OREAS920	0.05	65.8	13.4	45	107	3.73	6.7	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006474	0.23	23.5	0.07	1120	3.75	0.02	16.9	670
D00006475	0.09	21.0	0.18	551	1.50	0.01	10.0	440
D00006476	0.14	22.5	0.13	140	0.90	0.01	6.4	730
D00006477	0.21	46.1	0.16	117	2.49	0.01	5.9	370
D00006478	0.22	50.0	0.30	302	1.10	0.01	10.2	730
D00006479	0.20	33.2	0.33	476	1.53	0.01	9.9	600
D00006480	0.05	50.2	0.08	899	1.24	0.03	4.0	1300
D00006481	0.24	40.1	0.74	620	3.07	0.01	28.2	470
D00006482	0.27	39.6	0.40	264	1.46	0.02	11.4	760
D00006483	0.26	36.3	0.48	269	1.54	0.02	13.5	770
D00006484	0.05	10.3	0.12	85	0.39	0.04	2.9	760
D00006485	0.03	2.3	0.04	48	0.15	0.04	1.5	540
D00006486	0.18	18.9	0.58	224	1.07	0.01	15.8	610
D00006487	0.19	18.4	0.21	129	1.04	<0.01	5.3	310
D00006488	0.11	11.9	0.07	72	0.52	0.02	2.3	250
D00006489	0.05	8.4	0.08	45	0.45	0.02	2.8	370
D00006490	0.05	13.1	0.07	156	8.69	0.02	6.7	1450
D00006491	0.05	6.5	0.10	796	0.69	0.03	5.9	270
D00006492	0.04	10.8	0.12	1060	2.29	0.03	6.5	1960
D00006493	0.35	29.2	0.29	322	1.69	0.01	6.6	600
D00006494	0.35	33.5	0.21	239	1.59	0.01	6.2	710
D00006495	0.27	21.8	0.13	482	1.67	0.01	4.5	750
D00006496	0.13	16.0	0.12	304	1.08	0.01	9.0	760
D00006497	0.27	31.0	0.35	291	1.11	0.01	7.8	670
D00006498	0.22	32.7	0.20	353	1.42	0.01	7.7	790
D00006499	0.19	29.6	0.17	262	1.47	0.01	7.3	700
D00006500	0.19	30.1	0.23	340	1.33	0.01	8.4	890
D00006501	0.07	30.9	0.20	156	2.58	0.01	16.7	510
D00006502	0.07	27.7	0.13	51	4.22	0.01	14.8	1040
D00006503	0.05	33.6	0.71	163	1.24	0.01	24.1	1000
D00006504	0.07	35.3	0.26	46	0.77	0.01	10.4	970
D00006505	0.14	27.7	0.36	184	3.25	0.01	16.2	520
D00006506	0.10	24.5	0.27	77	2.08	0.01	10.8	450
D00006507	0.10	27.5	0.26	217	1.58	0.01	15.4	550
D00006508	0.10	26.0	0.25	339	1.82	0.01	13.7	390
D00006509	0.13	32.0	0.17	162	1.10	0.01	8.6	310
D00006510	0.17	78.9	0.15	214	2.59	0.01	24.0	850
D00006511	0.05	6.7	0.03	30	0.59	0.03	3.1	430
D00006512	0.17	23.9	0.14	111	0.80	0.02	7.2	1520
D00006513	0.21	22.3	0.58	323	1.24	0.02	17.8	850

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006514	0.31	29.5	0.23	585	1.90	0.02	9.7	1060
D00006515	0.33	18.7	0.94	434	0.88	0.02	25.3	890
D00006516	0.22	18.6	0.61	402	1.10	0.02	19.6	1550
D00006517	0.14	25.5	0.29	3600	0.65	0.03	11.3	590
D00006518	0.15	25.5	0.70	796	0.95	0.02	22.9	1070
D00006519	0.49	35.2	0.78	375	1.09	0.01	17.9	1050
D00006520	0.46	34.5	0.73	252	1.04	0.01	17.3	990
D00006521	0.51	42.0	0.62	164	1.18	0.01	19.2	840
D00006522	0.28	18.3	0.81	493	1.11	0.02	21.7	690
D00006523	0.31	27.5	0.34	217	1.38	0.01	9.4	780
D00006524	0.26	26.5	0.29	326	1.58	0.01	7.7	800
D00006525	0.29	26.3	0.43	240	1.37	0.01	10.6	810
D00006526	1.05	22.7	1.32	407	0.90	0.02	41.5	1550
D00006527	0.33	32.1	0.20	247	1.38	0.01	5.2	970
D00006528	0.27	21.2	0.16	247	1.37	0.01	5.2	860
D00006529	0.27	24.4	0.12	331	1.46	0.01	6.3	900
D00006530	0.27	19.3	0.07	185	1.63	0.01	3.1	380
D00006531	0.26	24.3	0.17	543	1.80	0.01	8.0	940
D00006532	0.27	20.0	0.17	584	1.64	0.01	7.0	820
D00006533	0.58	40.4	0.41	2970	2.11	0.01	39.8	1040
D00006534	0.28	38.8	0.19	351	1.73	0.01	8.1	980
D00006535	0.33	30.0	0.75	666	1.15	0.02	21.2	800
D00006536	0.50	180	0.53	656	4.25	0.01	21.3	660
D00006537	0.93	68.6	1.60	1740	2.44	0.02	28.5	620
D00006538	0.15	19.5	0.08	467	1.52	0.02	3.8	710
D00006539	0.35	34.0	0.12	120	2.18	0.01	5.0	590
D00006540	<0.01	0.6	<0.01	<2	<0.05	<0.01	<0.5	<50
D00006541	0.31	13.8	0.09	492	1.77	0.01	5.6	720
D00006542	0.35	33.7	0.23	1630	2.62	0.01	13.3	1160
D00006543	0.35	29.5	0.12	1860	3.61	0.01	10.0	560
D00006544	0.67	33.4	1.63	1790	1.76	0.01	69.8	1080
D00006545	0.79	43.9	0.73	1610	1.60	0.01	56.6	980
D00006554	1.25	27.0	1.38	591	1.27	0.01	21.7	1080
D00006555	0.39	49.1	0.36	624	1.86	0.01	15.0	760
D00006556	0.38	23.3	0.34	242	2.62	0.02	13.1	840
D00006557	0.36	38.1	0.15	181	2.51	0.01	9.1	600

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006485	0.03	2.3	0.04	53	0.15	0.04	1.5	550
*Rep D00006516	0.23	19.1	0.64	414	1.13	0.02	20.6	1590
*Rep D00006538	0.15	19.5	0.08	455	1.54	0.02	3.9	720
*Std OREAS151B	0.42	7.6	1.50	298	55.6	0.18	15.1	580
*Std OREAS902	0.29	17.0	2.28	491	11.8	0.02	170	700
*Std OREAS920	0.43	36.6	1.13	525	0.45	0.03	38.6	720
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006474	279	11.8	1.46	1.4	<0.3	21.5	14.6	<0.01
D00006475	58.5	13.7	0.33	0.9	<0.3	4.9	8.2	0.04
D00006476	24.4	17.1	0.27	0.6	<0.3	7.8	0.8	0.03
D00006477	14.3	20.6	0.07	1.2	<0.3	10.2	14.9	0.04
D00006478	18.7	24.5	0.30	1.6	<0.3	8.2	18.1	0.05
D00006479	24.8	21.2	0.33	1.6	0.4	10.2	5.3	0.08
D00006480	23.1	6.4	0.11	0.5	<0.3	10.9	0.4	0.02
D00006481	78.4	29.2	0.32	2.6	0.4	13.5	11.1	0.11
D00006482	15.5	24.9	0.41	1.7	0.3	10.9	4.6	0.08
D00006483	26.5	22.9	0.51	1.8	0.4	10.4	4.1	0.09
D00006484	4.7	5.8	<0.05	0.7	<0.3	10.8	0.8	0.02
D00006485	1.1	1.3	<0.05	0.3	<0.3	27.7	0.2	0.02
D00006486	21.3	28.1	0.20	2.8	0.4	8.1	6.3	0.11
D00006487	16.0	29.3	0.17	1.5	0.6	3.9	6.2	0.12
D00006488	8.2	19.7	0.07	0.7	<0.3	11.0	2.0	0.04
D00006489	19.0	9.7	<0.05	0.4	0.4	6.2	0.2	0.03
D00006490	71.2	5.9	0.18	0.3	<0.3	10.7	0.1	<0.01
D00006491	9.3	12.0	<0.05	0.6	<0.3	6.5	0.2	0.03
D00006492	13.6	7.4	0.12	0.5	<0.3	24.9	0.2	0.01
D00006493	14.7	31.7	0.15	2.4	<0.3	11.4	7.6	0.09
D00006494	12.1	34.2	0.20	1.5	<0.3	12.9	4.8	0.07
D00006495	120	26.3	<0.05	1.0	<0.3	16.5	2.7	0.03
D00006496	61.6	11.2	0.18	0.9	<0.3	10.2	6.3	0.03
D00006497	8.3	27.2	0.26	2.1	<0.3	7.8	6.0	0.07
D00006498	11.0	19.9	0.24	1.2	<0.3	11.0	1.6	0.04
D00006499	13.7	21.0	0.22	1.4	<0.3	7.5	3.7	0.04
D00006500	14.4	20.2	0.24	1.5	0.3	9.6	4.2	0.05
D00006501	37.5	7.9	1.53	1.2	0.3	12.9	10.4	0.03
D00006502	62.6	7.1	3.47	0.9	0.4	15.7	2.4	0.02
D00006503	79.3	5.7	1.30	1.8	<0.3	10.7	3.2	0.04
D00006504	78.3	8.8	1.14	0.8	0.4	9.5	0.6	0.03
D00006505	40.4	13.8	1.48	2.1	0.4	9.2	14.6	0.06
D00006506	34.0	9.5	0.77	1.4	<0.3	7.7	10.2	0.05
D00006507	133	10.7	0.67	1.9	<0.3	7.7	12.6	0.05
D00006508	25.0	14.4	0.62	1.4	0.5	5.9	4.3	0.04
D00006509	11.5	13.1	0.26	1.0	0.3	5.7	7.9	0.03
D00006510	37.0	14.3	0.27	1.6	<0.3	10.6	19.0	0.03
D00006511	3.8	3.9	0.06	0.4	<0.3	4.9	0.6	0.02
D00006512	11.5	15.4	0.21	1.0	<0.3	26.7	1.1	0.03
D00006513	13.4	24.5	0.18	2.7	0.8	9.7	6.1	0.11

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006514	11.2	27.9	0.20	1.3	<0.3	12.9	1.3	0.03
D00006515	10.8	38.4	0.13	3.7	1.1	11.6	5.2	0.18
D00006516	13.7	32.1	0.16	1.8	1.0	12.8	0.7	0.09
D00006517	8.1	11.4	0.06	2.0	0.3	13.4	1.6	0.06
D00006518	5.8	16.5	<0.05	3.4	0.8	13.2	1.5	0.10
D00006519	9.5	43.2	0.20	4.4	0.5	11.7	11.0	0.19
D00006520	9.1	40.5	0.20	4.2	0.5	12.6	10.7	0.19
D00006521	10.6	48.3	0.18	3.5	0.4	10.1	14.6	0.16
D00006522	10.8	29.6	0.11	3.5	0.9	11.5	6.1	0.16
D00006523	8.9	32.4	0.11	2.3	0.4	8.1	10.5	0.07
D00006524	8.8	27.1	0.13	1.9	0.5	10.1	6.8	0.05
D00006525	13.7	29.1	0.11	2.2	0.5	9.6	6.2	0.09
D00006526	12.3	100	0.08	8.8	0.5	17.0	7.3	0.39
D00006527	9.0	32.5	0.08	1.6	<0.3	9.0	7.4	0.05
D00006528	4.9	27.1	0.13	1.6	<0.3	8.0	7.3	0.03
D00006529	5.8	21.3	0.14	1.4	<0.3	6.2	10.3	0.02
D00006530	6.1	29.9	0.10	0.6	<0.3	1.8	1.9	0.04
D00006531	9.3	27.6	0.13	1.4	<0.3	6.9	8.3	0.05
D00006532	10.6	25.4	0.11	1.5	<0.3	9.1	4.3	0.03
D00006533	23.2	70.6	0.10	5.3	<0.3	14.6	12.3	0.14
D00006534	14.4	26.8	0.12	1.8	<0.3	7.3	14.5	0.05
D00006535	12.0	41.2	0.18	4.0	1.4	14.3	3.1	0.14
D00006536	25.7	39.0	0.11	3.5	<0.3	18.7	31.9	0.11
D00006537	14.6	82.2	0.08	7.8	0.5	25.8	12.7	0.26
D00006538	16.8	14.1	0.06	0.8	<0.3	9.4	4.6	0.04
D00006539	16.8	31.5	<0.05	1.8	<0.3	9.4	11.8	0.03
D00006540	0.3	<0.2	<0.05	<0.1	<0.3	0.6	0.4	<0.01
D00006541	10.6	29.2	<0.05	0.9	<0.3	10.6	2.6	0.02
D00006542	14.4	38.4	0.06	2.1	<0.3	12.4	13.8	0.07
D00006543	20.8	30.5	0.08	2.1	<0.3	7.3	5.7	0.02
D00006544	21.2	93.3	0.07	10.0	<0.3	16.6	9.5	0.37
D00006545	16.3	87.9	0.09	6.0	<0.3	19.3	10.8	0.25
D00006554	10.8	105	0.14	9.7	0.6	22.8	5.7	0.42
D00006555	19.1	48.1	0.13	3.4	<0.3	11.4	14.9	0.10
D00006556	21.6	47.9	0.17	2.8	0.4	17.3	3.4	0.05
D00006557	18.6	32.6	0.12	1.8	<0.3	10.5	6.4	0.03

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006485	1.1	1.3	<0.05	0.3	<0.3	27.7	0.2	0.02
*Rep D00006516	13.9	32.9	0.17	1.8	1.0	12.8	0.7	0.09
*Rep D00006538	16.7	13.7	0.05	0.8	<0.3	9.4	4.0	0.04
*Std OREAS151B	40.6	19.8	0.56	9.6	1.1	41.3	2.5	0.08
*Std OREAS902	10.4	10.0	0.86	2.8	<0.3	21.5	5.4	<0.01
*Std OREAS920	24.0	24.9	0.64	2.8	1.1	17.9	15.3	0.12
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006474	0.34	4.14	6	0.4	19.4	1170
D00006475	0.15	1.46	22	0.8	6.47	156
D00006476	0.17	1.72	20	0.3	9.11	105
D00006477	0.33	1.74	12	0.3	6.40	46
D00006478	0.21	1.32	20	0.4	12.9	98
D00006479	0.17	1.58	29	0.2	9.38	106
D00006480	0.10	2.61	24	<0.1	12.5	38
D00006481	0.39	3.33	34	0.2	10.2	610
D00006482	0.22	1.75	30	0.2	12.4	112
D00006483	0.22	1.72	31	0.2	12.0	134
D00006484	0.09	1.86	8	<0.1	4.35	17
D00006485	0.02	1.67	6	<0.1	0.93	5
D00006486	0.25	0.67	39	0.3	6.04	71
D00006487	0.22	0.63	36	0.2	3.58	38
D00006488	0.10	0.36	13	0.1	1.90	15
D00006489	0.11	0.68	14	0.1	1.97	21
D00006490	0.07	1.47	13	0.2	4.50	81
D00006491	0.07	0.23	15	<0.1	1.45	23
D00006492	0.09	1.02	24	0.2	3.51	45
D00006493	0.27	0.89	23	0.3	6.51	39
D00006494	0.27	0.95	17	0.3	6.45	49
D00006495	0.19	1.09	3	<0.1	9.71	48
D00006496	0.13	1.32	10	<0.1	5.73	52
D00006497	0.22	0.87	32	0.1	6.47	41
D00006498	0.18	1.04	24	0.2	6.44	40
D00006499	0.16	1.19	19	0.4	6.64	39
D00006500	0.17	1.29	23	0.2	7.31	41
D00006501	0.27	2.82	18	0.2	12.7	202
D00006502	0.36	2.65	22	0.2	8.32	109
D00006503	0.41	3.06	27	0.2	14.6	239
D00006504	0.44	4.28	13	0.2	14.1	122
D00006505	0.20	2.30	23	0.5	8.77	198
D00006506	0.12	1.01	19	0.3	5.12	69
D00006507	0.14	2.79	18	0.3	11.3	831
D00006508	0.15	2.12	25	0.3	5.09	237
D00006509	0.11	1.65	15	0.2	4.59	44
D00006510	0.16	2.31	14	0.2	19.6	79
D00006511	0.04	0.36	11	<0.1	1.43	13
D00006512	0.18	0.94	15	0.1	9.51	20
D00006513	0.17	0.95	40	0.4	7.33	46

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006514	0.21	1.65	16	0.1	11.0	39
D00006515	0.25	1.07	57	0.4	8.61	70
D00006516	0.25	1.52	55	0.4	9.29	52
D00006517	0.18	1.15	22	<0.1	14.8	30
D00006518	0.13	1.34	31	0.1	12.6	74
D00006519	0.31	1.00	44	0.2	10.4	62
D00006520	0.33	0.81	43	0.2	9.30	60
D00006521	0.41	1.28	30	0.4	11.2	67
D00006522	0.21	0.80	47	0.2	6.26	62
D00006523	0.23	1.20	19	0.1	10.4	36
D00006524	0.22	1.05	20	0.3	7.15	30
D00006525	0.23	0.72	25	0.2	7.68	39
D00006526	0.73	0.84	76	<0.1	14.4	151
D00006527	0.23	1.19	10	0.1	8.87	27
D00006528	0.17	1.03	11	<0.1	9.14	18
D00006529	0.14	1.26	9	0.2	15.5	20
D00006530	0.19	0.86	12	<0.1	2.44	23
D00006531	0.20	1.55	11	0.5	15.5	26
D00006532	0.16	1.16	14	0.1	9.54	24
D00006533	0.65	2.06	36	<0.1	44.7	63
D00006534	0.24	1.29	15	<0.1	11.3	39
D00006535	0.24	1.39	55	0.9	8.87	57
D00006536	0.28	2.24	25	<0.1	35.5	25
D00006537	0.55	3.66	62	<0.1	27.1	66
D00006538	0.11	1.58	19	<0.1	7.54	16
D00006539	0.23	1.82	10	<0.1	15.7	42
D00006540	<0.02	0.08	<1	<0.1	0.68	1
D00006541	0.19	2.98	3	<0.1	16.6	22
D00006542	0.34	2.07	14	<0.1	19.3	60
D00006543	0.27	2.09	11	<0.1	18.5	43
D00006544	0.82	1.92	73	<0.1	31.8	109
D00006545	0.67	1.12	47	<0.1	28.0	90
D00006554	0.78	0.74	148	0.1	10.6	85
D00006555	0.43	1.91	23	<0.1	21.5	48
D00006556	0.41	5.01	22	0.1	13.9	68
D00006557	0.33	3.06	13	<0.1	15.2	22

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Final : VC172759 Order: PO# BMC17-01012

Report File No.: 0000024727

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006485	0.02	1.68	5	<0.1	0.99	5
*Rep D00006516	0.25	1.49	56	0.4	9.52	55
*Rep D00006538	0.10	1.52	20	<0.1	7.31	16
*Std OREAS151B	0.14	0.65	147	0.7	11.0	248
*Std OREAS902	0.24	2.49	8	2.3	7.80	7
*Std OREAS920	0.16	2.17	25	0.6	18.3	109
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172760
[Report File No.: 0000024653]

Date: September 14, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01012
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006558	0.230	<5	0.17	1.39	10	254	0.38	0.45
D00006559	0.250	<5	0.16	0.42	4	105	0.34	0.17
D00006560	0.280	<5	0.17	0.47	5	96	0.38	0.13
D00006561	0.435	<5	0.19	0.25	2	102	0.81	0.23
D00006562	0.300	<5	0.14	0.58	5	172	0.50	0.33
D00006563	0.285	<5	0.23	0.81	2	212	0.54	0.58
D00006564	0.215	<5	0.14	1.77	15	338	0.40	0.42
D00006565	0.260	<5	0.03	1.19	5	148	0.26	0.17
D00006566	0.260	<5	0.05	1.49	9	52	0.34	0.06
D00006567	0.540	5	0.08	1.76	11	96	0.34	0.49
D00006568	0.375	<5	0.09	1.60	1	146	0.23	0.47
D00006569	0.195	<5	0.18	1.18	3	225	0.39	0.44
D00006570	0.375	<5	0.28	1.85	10	129	0.18	0.15
D00006571	0.415	5	0.18	1.97	16	89	0.21	0.37
D00006572	0.375	<5	0.06	1.04	10	74	0.23	0.23
D00006573	0.240	<5	0.28	1.06	2	156	0.38	0.10
D00006574	0.390	<5	0.14	1.23	6	95	0.17	0.31
D00006575	0.190	<5	0.10	1.31	5	202	0.20	0.46
D00006576	0.335	<5	0.22	1.39	8	166	0.23	0.25
D00006577	0.325	<5	0.08	1.30	7	82	0.37	0.07
D00006578	0.395	<5	0.43	1.65	13	118	0.37	0.44
D00006579	0.215	<5	0.15	1.24	10	109	0.40	0.68
D00006580	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00006581	0.175	5	0.28	1.73	23	71	0.18	0.75
D00006582	0.380	9	0.46	2.05	31	60	0.39	0.58
D00006583	0.380	5	0.22	1.30	11	110	0.20	0.53
D00006584	0.230	6	0.23	1.31	11	72	0.21	0.65
D00006585	0.405	<5	0.20	1.25	11	78	0.19	0.58
D00006586	0.290	<5	0.33	1.36	11	64	0.44	0.47
D00006587	0.310	<5	0.18	2.40	5	95	0.09	0.91
D00006588	0.395	6	0.08	1.36	19	64	0.17	0.27
D00006589	0.395	14	0.63	2.31	146	100	0.23	0.40
D00006590	0.520	<5	0.20	2.03	15	66	0.20	0.39
D00006591	0.355	5	0.27	2.11	19	79	0.34	0.33
D00006592	0.295	<5	0.25	1.50	9	134	0.19	0.49
D00006593	0.315	<5	0.31	1.22	6	105	0.17	1.08
D00006594	0.415	<5	0.34	1.39	12	99	0.30	0.51
D00006595	0.355	<5	0.39	1.65	12	125	0.23	1.05
D00006596	0.370	<5	0.15	1.47	7	95	0.26	0.45
D00006597	0.365	6	0.21	1.63	7	69	0.30	0.08

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006901	0.390	<5	0.10	0.65	9	76	0.19	0.22
D00006902	0.160	<5	0.14	0.78	14	114	0.23	0.56
D00006903	0.415	6	0.12	1.00	32	47	0.16	0.58
D00006904	0.585	<5	0.12	0.45	32	61	0.33	0.30
D00006905	0.205	<5	0.17	0.55	65	64	0.41	0.26
D00006906	0.095	<5	0.06	0.57	2	58	0.05	0.82
D00006907	0.510	8	0.07	0.66	21	55	0.16	0.51
D00006908	0.490	<5	0.08	0.72	9	93	0.26	0.36
D00006909	0.410	5	0.15	0.89	20	202	0.20	0.72
D00006910	0.180	<5	0.60	0.71	13	100	0.15	0.54
D00006911	0.215	<5	0.03	0.13	<1	11	<0.02	0.03
D00006912	0.210	<5	0.04	0.10	<1	15	<0.02	0.04
D00006913	0.290	<5	0.13	0.42	1	27	0.03	0.14
D00006914	0.395	<5	0.08	0.95	4	123	0.26	0.45
D00006915	0.180	6	0.13	1.36	12	116	0.30	0.21
D00006916	0.260	<5	0.31	0.97	10	73	0.14	0.52
D00006917	0.225	<5	0.27	0.27	<1	36	0.03	0.25
D00006918	0.080	<5	0.12	0.31	1	66	0.08	0.07
D00006919	0.385	<5	0.08	1.22	18	76	0.21	0.30
D00006920	0.110	<5	<0.01	0.01	1	<5	<0.02	<0.01
D00006921	0.205	<5	0.14	0.58	<1	44	0.06	0.46
D00006922	0.225	<5	0.07	0.50	<1	17	0.02	0.19
D00006923	0.435	6	0.07	1.80	11	112	0.24	0.33
D00006924	0.180	<5	0.02	0.16	<1	9	<0.02	0.03
D00006925	0.470	<5	0.27	1.80	28	76	0.21	0.12
D00006926	0.340	<5	0.21	1.66	8	164	0.15	0.38
D00006927	0.215	<5	0.23	1.40	9	170	0.15	0.94
D00006928	0.410	<5	0.32	1.92	13	158	0.17	0.74
D00006929	0.640	<5	0.21	2.57	21	108	0.17	0.56
D00006930	0.365	<5	0.17	0.34	<1	23	0.03	0.25
D00007809	0.375	<5	0.16	1.09	25	299	0.34	0.08
B00266352	0.410	<5	0.29	2.02	5	156	0.23	0.23
B00266353	0.455	<5	0.22	1.24	3	142	0.20	0.39
B00266354	0.345	<5	0.11	1.34	3	181	0.28	0.30
B00266355	0.690	<5	0.36	1.48	4	163	0.28	0.37
B00266356	0.435	<5	0.04	1.38	7	125	0.27	0.43
*Std OREAS151B		67						
*Std OXK119		3570						
*Std AMIS0282		160						
*Blk BLANK		<5						

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Final : VC172760 Order: PO# BMC17-01012

Report File No.: 0000024653

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00006581		0.28	1.65	22	71	0.18	0.73
*Rep D00006590		0.20	1.96	17	63	0.18	0.37
*Rep D00006923		0.07	1.88	10	113	0.24	0.32
*Std OREAS920		0.10	2.57	4	75	0.64	0.33
*Std OREAS151B		0.54	2.39	32	69	0.39	1.29
*Std OREAS902		0.29	0.51	601	15	8.57	3.99
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00006567	<5						
*Rep D00006905	<5						
*Rep B00266355	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006558	0.14	65.3	10.1	18	20.3	2.78	4.4	0.01
D00006559	0.27	135	3.7	4	7.9	1.20	2.3	0.02
D00006560	0.22	130	3.3	5	7.8	1.18	2.3	0.03
D00006561	0.06	219	3.7	<1	7.0	1.41	2.5	0.01
D00006562	0.06	73.2	3.0	3	3.9	1.35	2.5	0.04
D00006563	0.23	59.2	3.4	4	5.9	1.19	2.9	0.02
D00006564	0.09	63.6	18.1	26	12.6	3.74	5.8	0.02
D00006565	0.04	71.0	3.7	14	7.6	2.25	4.6	0.01
D00006566	0.18	59.2	6.6	22	11.2	3.44	6.6	0.01
D00006567	0.10	89.0	15.6	25	16.1	4.29	6.3	0.08
D00006568	0.25	157	16.4	5	17.6	4.78	7.0	0.07
D00006569	0.17	171	6.1	5	8.2	2.58	4.9	0.05
D00006570	0.47	60.8	12.2	24	18.6	3.94	5.1	0.01
D00006571	0.43	73.4	19.3	31	39.6	4.61	6.7	0.02
D00006572	0.23	91.9	9.9	11	15.1	2.85	3.3	0.01
D00006573	0.15	40.9	1.6	14	11.1	0.98	5.3	<0.01
D00006574	0.17	46.4	7.5	15	23.8	2.70	4.2	<0.01
D00006575	0.10	45.6	9.3	23	10.2	2.33	6.4	<0.01
D00006576	0.10	79.9	8.3	21	14.6	2.82	5.1	<0.01
D00006577	0.15	43.5	10.1	17	10.7	3.91	10.1	<0.01
D00006578	0.62	143	12.6	22	40.7	3.81	5.7	0.06
D00006579	0.17	32.5	5.1	17	11.5	3.36	6.2	<0.01
D00006580	<0.01	1.01	<0.1	<1	0.6	0.02	<0.1	<0.01
D00006581	0.30	79.0	29.4	19	39.5	5.10	5.9	0.01
D00006582	0.64	140	27.0	32	72.4	4.17	6.7	0.02
D00006583	0.49	69.0	12.0	16	21.8	2.71	4.7	0.02
D00006584	0.81	75.7	14.4	22	32.5	3.27	4.7	0.01
D00006585	0.41	53.6	12.7	25	23.0	3.22	4.6	0.02
D00006586	0.26	49.0	7.2	22	16.8	3.62	4.8	0.02
D00006587	0.33	36.9	18.3	36	27.6	5.91	9.2	0.01
D00006588	0.18	63.4	13.6	26	29.1	3.29	4.8	0.01
D00006589	0.24	63.3	23.4	40	57.3	5.34	7.9	0.05
D00006590	0.11	42.5	12.3	44	30.3	4.48	6.9	<0.01
D00006591	0.13	81.4	12.6	41	46.4	4.01	6.9	0.02
D00006592	0.19	42.5	13.5	25	27.5	3.06	5.1	0.02
D00006593	0.37	31.2	7.0	18	26.7	2.46	4.8	0.04
D00006594	0.26	31.4	9.2	19	16.0	3.14	6.2	0.02
D00006595	0.26	55.1	12.2	27	21.7	3.16	5.4	0.04
D00006596	0.58	77.5	10.6	26	25.4	3.00	5.5	0.01
D00006597	0.28	51.9	5.9	19	17.9	2.54	5.8	0.04

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006901	0.10	59.7	5.2	7	9.9	2.03	2.8	<0.01
D00006902	0.25	53.7	7.3	11	9.5	2.78	3.2	0.02
D00006903	0.23	74.6	14.6	19	15.1	4.79	3.9	0.04
D00006904	0.24	98.9	7.4	3	8.9	1.63	2.3	0.02
D00006905	0.26	73.0	8.0	1	13.7	2.71	2.3	0.03
D00006906	0.99	23.7	1.1	1	11.0	0.53	1.7	0.05
D00006907	0.14	88.9	11.1	6	11.1	3.52	3.0	0.02
D00006908	0.24	71.4	5.6	8	7.7	2.29	3.0	0.01
D00006909	0.17	39.2	4.2	8	7.6	2.03	3.7	0.02
D00006910	0.23	60.0	4.0	7	9.1	1.13	3.2	0.04
D00006911	0.11	1.87	0.5	1	1.1	0.22	0.6	<0.01
D00006912	0.19	1.58	0.4	<1	0.6	0.16	0.5	<0.01
D00006913	0.03	7.59	0.9	<1	2.8	0.38	1.7	0.01
D00006914	0.20	23.3	2.3	4	5.4	1.12	3.3	<0.01
D00006915	0.25	58.2	2.9	10	5.9	2.25	4.5	0.02
D00006916	0.13	21.8	2.1	3	7.8	1.03	2.9	0.03
D00006917	0.18	8.18	3.2	2	4.1	0.63	1.5	0.01
D00006918	0.18	11.6	0.6	5	3.7	0.43	1.7	0.11
D00006919	0.09	29.2	5.7	21	10.2	2.52	4.8	0.02
D00006920	<0.01	1.09	<0.1	<1	0.5	0.02	<0.1	<0.01
D00006921	0.18	14.1	2.0	3	5.6	0.52	2.1	0.01
D00006922	0.08	5.43	0.9	<1	2.0	0.32	1.8	<0.01
D00006923	0.41	70.5	14.1	32	30.6	3.32	5.7	<0.01
D00006924	0.02	0.80	0.8	<1	3.5	0.29	1.1	<0.01
D00006925	0.17	31.6	10.3	36	24.8	3.95	6.6	0.03
D00006926	0.08	32.3	7.9	29	15.8	2.81	5.2	0.02
D00006927	0.37	34.3	8.3	21	30.1	2.19	4.9	0.04
D00006928	0.27	38.8	12.8	35	36.6	3.64	6.1	0.02
D00006929	0.19	30.5	11.2	51	28.7	4.82	8.5	0.01
D00006930	0.06	5.12	2.4	<1	8.7	0.77	1.9	<0.01
D00007809	0.23	47.9	12.9	19	99.1	3.30	4.2	0.03
B00266352	0.45	39.8	7.5	31	10.7	3.16	8.4	0.03
B00266353	0.49	67.9	6.9	21	9.9	1.78	4.4	0.03
B00266354	0.08	31.4	7.7	33	13.4	2.27	6.4	0.02
B00266355	0.24	104	12.6	18	21.5	3.08	5.9	0.05
B00266356	0.10	34.3	7.5	39	16.1	2.67	7.0	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006581	0.29	79.0	28.4	18	38.9	4.76	5.6	0.02
*Rep D00006590	0.11	42.0	11.5	42	29.9	4.29	6.5	0.01
*Rep D00006923	0.38	70.0	14.8	34	32.0	3.36	6.1	0.01
*Std OREAS920	0.07	73.6	14.1	42	117	3.69	7.3	<0.01
*Std OREAS151B	0.60	15.0	11.0	25	1890	3.41	7.2	0.01
*Std OREAS902	0.03	29.3	994	22	3110	3.13	1.5	0.04
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006558	0.24	38.8	0.34	674	1.54	0.02	17.5	840
D00006559	0.14	55.2	0.09	227	1.41	0.01	6.3	810
D00006560	0.13	52.1	0.08	218	1.42	0.01	6.1	710
D00006561	0.17	98.3	0.03	313	1.61	0.01	3.7	860
D00006562	0.24	33.9	0.16	225	1.85	0.01	3.5	740
D00006563	0.12	30.9	0.11	255	1.45	0.02	4.7	880
D00006564	0.24	34.0	0.45	1610	3.46	0.01	17.0	1040
D00006565	0.20	34.5	0.32	76	2.45	0.01	7.9	440
D00006566	0.23	28.4	0.41	257	1.92	0.01	14.1	360
D00006567	0.89	46.6	0.99	687	1.30	0.01	23.3	1260
D00006568	0.60	77.3	0.83	743	1.96	0.01	9.7	1260
D00006569	0.28	88.1	0.28	642	2.00	0.02	5.7	680
D00006570	0.20	29.2	0.57	451	1.65	0.01	28.4	640
D00006571	0.13	30.7	0.94	576	1.86	0.01	38.9	1490
D00006572	0.26	35.6	0.36	538	1.57	0.01	18.2	1070
D00006573	0.08	22.7	0.12	109	1.18	0.01	5.9	1010
D00006574	0.21	23.8	0.56	354	2.15	0.01	16.1	1320
D00006575	0.12	20.8	0.52	1540	1.33	0.02	10.8	900
D00006576	0.23	40.5	0.51	610	1.39	0.01	17.6	800
D00006577	0.34	19.8	0.43	405	2.63	0.01	11.8	500
D00006578	0.17	65.7	0.72	916	1.29	0.01	29.3	930
D00006579	0.17	15.7	0.45	245	1.95	0.01	13.6	650
D00006580	<0.01	0.5	<0.01	<2	<0.05	0.01	<0.5	<50
D00006581	0.13	41.9	0.89	1200	1.79	0.01	42.2	1360
D00006582	0.07	73.1	1.49	1000	0.86	0.02	54.0	920
D00006583	0.13	27.8	0.58	813	1.34	0.02	22.1	1170
D00006584	0.10	44.5	0.82	870	0.97	0.02	33.9	1240
D00006585	0.11	28.3	0.66	467	1.03	0.01	29.0	980
D00006586	0.09	25.0	0.75	336	1.10	0.01	15.2	960
D00006587	0.11	31.2	1.40	789	0.94	0.02	20.8	1970
D00006588	0.05	19.4	0.68	481	1.27	0.01	32.8	870
D00006589	0.05	53.5	1.26	950	1.93	0.01	42.8	1020
D00006590	0.07	21.7	1.24	343	1.52	0.01	29.0	1210
D00006591	0.06	49.3	1.13	347	1.62	0.01	42.2	760
D00006592	0.04	26.2	0.67	784	2.65	0.02	21.9	900
D00006593	0.07	24.9	0.57	316	1.60	0.02	19.2	650
D00006594	0.06	14.8	0.51	373	1.76	0.01	16.6	800
D00006595	0.08	43.2	0.76	655	1.04	0.01	27.1	950
D00006596	0.21	38.8	0.85	370	1.18	0.01	22.4	1230
D00006597	0.15	27.5	0.54	234	1.10	0.01	12.8	650

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006901	0.20	28.3	0.27	334	1.01	<0.01	8.2	570
D00006902	0.17	31.9	0.24	597	1.37	0.01	10.7	1010
D00006903	0.09	42.6	0.48	1080	1.45	0.01	15.0	1750
D00006904	0.13	46.9	0.10	794	1.49	0.01	9.5	990
D00006905	0.16	40.9	0.12	919	1.90	0.02	6.1	610
D00006906	0.05	14.9	0.04	42	0.43	0.03	2.7	630
D00006907	0.11	48.1	0.20	781	1.33	0.01	12.4	1930
D00006908	0.16	31.5	0.24	719	1.15	0.01	8.3	880
D00006909	0.13	23.9	0.21	394	0.99	0.01	7.0	1270
D00006910	0.05	50.4	0.08	810	1.10	0.03	5.4	2330
D00006911	0.02	1.1	0.01	17	0.16	0.03	0.6	650
D00006912	0.02	1.2	0.02	18	0.10	0.03	<0.5	320
D00006913	0.02	5.5	0.04	96	0.24	0.04	1.3	530
D00006914	0.12	11.6	0.08	449	1.37	0.02	3.7	1750
D00006915	0.10	67.1	0.15	211	0.99	0.02	4.9	1600
D00006916	0.07	19.4	0.09	239	0.90	0.03	3.0	1610
D00006917	0.03	4.3	0.07	246	0.43	0.04	2.6	680
D00006918	0.05	7.9	0.04	43	0.80	0.02	2.3	1310
D00006919	0.10	15.6	0.55	157	0.61	0.01	12.8	730
D00006920	<0.01	0.6	<0.01	<2	0.08	0.01	<0.5	<50
D00006921	0.04	7.1	0.09	115	0.32	0.04	3.1	620
D00006922	0.02	2.5	0.04	38	0.11	0.04	1.1	480
D00006923	0.14	37.7	0.90	387	0.99	0.01	32.4	1040
D00006924	0.01	0.4	0.03	15	0.10	0.04	0.8	170
D00006925	0.05	17.1	0.71	309	1.39	0.01	26.7	550
D00006926	0.06	17.3	0.76	251	0.91	0.02	18.4	1100
D00006927	0.05	23.7	0.48	499	1.31	0.03	23.1	1180
D00006928	0.07	25.3	0.95	514	1.25	0.02	31.5	1130
D00006929	0.06	17.4	1.50	398	1.62	0.01	29.4	1940
D00006930	0.02	3.4	0.06	110	0.24	0.04	2.6	540
D00007809	0.10	24.0	0.42	1320	1.97	0.01	44.7	570
B00266352	0.10	26.5	0.73	358	1.68	0.02	13.4	1230
B00266353	0.10	41.3	0.32	675	1.57	0.02	12.7	1060
B00266354	0.11	18.4	0.55	566	1.19	0.02	17.7	990
B00266355	0.27	64.0	0.38	1950	2.00	0.02	15.8	920
B00266356	0.14	20.8	0.70	289	0.96	0.02	18.2	650

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006581	0.12	41.0	0.86	1100	1.74	0.01	40.5	1350
*Rep D00006590	0.07	20.6	1.18	325	1.43	0.01	27.0	1190
*Rep D00006923	0.14	38.0	0.92	405	1.07	0.01	32.8	1020
*Std OREAS920	0.43	35.2	1.16	579	0.39	0.03	40.2	750
*Std OREAS151B	0.40	7.4	1.42	287	57.3	0.17	15.5	520
*Std OREAS902	0.27	15.3	2.17	478	12.7	0.02	172	660
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006558	28.3	41.7	0.23	2.7	<0.3	18.3	3.8	0.05
D00006559	124	13.6	0.18	1.0	<0.3	11.5	13.8	0.01
D00006560	114	12.3	0.20	1.0	<0.3	9.8	11.4	<0.01
D00006561	36.4	10.5	0.10	0.8	<0.3	18.5	33.7	<0.01
D00006562	23.4	26.8	0.08	1.5	<0.3	20.3	10.6	0.02
D00006563	468	16.4	0.17	1.3	<0.3	17.6	9.0	0.01
D00006564	29.0	44.4	0.22	3.7	0.5	14.1	4.9	0.07
D00006565	15.1	27.3	0.15	2.1	0.5	6.3	11.2	0.06
D00006566	14.4	30.6	0.36	2.8	0.9	5.5	10.8	0.11
D00006567	27.6	82.7	0.16	8.1	0.3	19.4	15.8	0.21
D00006568	39.3	79.5	0.12	7.8	0.4	19.4	22.4	0.22
D00006569	76.4	39.9	0.10	2.5	<0.3	16.6	14.1	0.04
D00006570	22.2	28.6	0.32	3.1	0.4	8.6	9.4	0.07
D00006571	86.6	15.7	0.30	6.1	<0.3	13.0	10.0	0.05
D00006572	25.0	28.6	0.26	2.2	<0.3	9.6	13.2	0.06
D00006573	15.3	25.5	0.23	0.4	1.3	11.5	0.4	0.02
D00006574	17.1	23.9	0.15	2.8	<0.3	21.3	6.9	0.07
D00006575	14.1	20.0	0.10	3.5	0.4	18.8	2.4	0.06
D00006576	15.3	32.4	0.17	3.4	0.5	9.9	10.8	0.09
D00006577	13.5	45.7	0.17	2.7	0.9	5.0	4.2	0.20
D00006578	40.8	20.1	0.22	5.4	<0.3	17.5	19.1	0.04
D00006579	28.4	18.6	0.34	2.2	0.6	23.0	6.3	0.12
D00006580	0.5	<0.2	<0.05	<0.1	<0.3	0.6	0.3	<0.01
D00006581	24.6	15.5	0.12	3.8	<0.3	22.5	6.1	0.03
D00006582	37.7	10.5	0.19	3.9	<0.3	27.3	9.4	0.03
D00006583	24.0	16.5	0.18	2.2	<0.3	21.6	5.6	0.03
D00006584	30.3	12.2	0.18	3.1	<0.3	29.3	6.2	0.03
D00006585	19.7	12.7	0.18	3.3	<0.3	24.9	6.3	0.03
D00006586	93.2	10.0	0.15	3.0	<0.3	21.1	8.5	0.02
D00006587	25.4	10.7	0.20	13.6	<0.3	31.9	2.7	0.08
D00006588	21.2	6.0	0.41	2.8	<0.3	13.3	5.3	0.04
D00006589	51.0	10.2	0.32	6.2	<0.3	19.5	5.6	0.02
D00006590	37.6	8.4	0.20	5.4	<0.3	17.0	8.4	0.04
D00006591	21.4	8.2	0.18	3.9	<0.3	18.3	11.3	0.02
D00006592	36.0	7.5	0.14	2.7	<0.3	23.5	3.9	0.02
D00006593	12.8	11.7	0.15	2.7	<0.3	49.1	5.4	0.03
D00006594	38.4	12.5	0.24	2.7	0.5	23.8	3.2	0.05
D00006595	19.2	13.1	0.20	3.7	0.4	47.2	4.7	0.03
D00006596	21.9	24.7	0.12	3.3	<0.3	18.3	7.2	0.08
D00006597	19.6	17.3	0.14	1.3	0.4	5.5	0.7	0.04

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006901	14.2	21.8	0.17	1.8	<0.3	7.0	10.4	0.05
D00006902	15.6	17.4	0.19	2.0	<0.3	11.5	5.4	0.03
D00006903	11.7	9.7	0.13	3.6	<0.3	11.9	8.0	0.01
D00006904	34.2	13.4	0.10	0.8	<0.3	8.7	4.9	0.02
D00006905	35.6	14.3	0.11	1.6	<0.3	10.1	7.3	0.01
D00006906	4.0	3.9	0.09	0.5	<0.3	28.1	1.0	0.02
D00006907	9.5	12.5	0.12	2.3	<0.3	11.2	9.8	0.02
D00006908	13.1	18.9	0.14	1.6	<0.3	8.9	8.9	0.04
D00006909	12.0	23.6	0.16	1.3	<0.3	15.5	2.1	0.03
D00006910	11.9	9.5	0.17	0.9	<0.3	14.9	1.3	0.02
D00006911	1.3	1.0	<0.05	0.2	<0.3	3.6	<0.1	<0.01
D00006912	1.4	1.4	<0.05	0.2	<0.3	5.2	<0.1	0.01
D00006913	2.1	2.8	<0.05	0.3	<0.3	7.8	<0.1	0.02
D00006914	7.4	15.0	0.10	0.5	<0.3	12.0	0.9	0.01
D00006915	19.5	13.3	0.15	1.7	0.4	9.0	3.1	0.02
D00006916	7.8	8.7	0.09	0.6	<0.3	16.8	0.9	0.02
D00006917	2.7	3.3	<0.05	0.5	<0.3	12.9	0.3	0.03
D00006918	4.2	4.3	0.14	0.9	<0.3	5.8	0.3	0.02
D00006919	20.5	13.8	0.19	1.8	0.4	15.6	0.8	0.06
D00006920	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.2	<0.01
D00006921	3.7	5.3	0.05	0.6	<0.3	18.0	0.4	0.02
D00006922	1.7	0.8	<0.05	0.4	<0.3	12.7	<0.1	0.03
D00006923	29.6	17.8	0.31	4.7	0.4	14.3	11.3	0.09
D00006924	0.9	0.5	<0.05	0.1	<0.3	5.3	<0.1	0.02
D00006925	19.2	10.9	0.20	3.5	0.4	7.3	5.1	0.06
D00006926	11.5	8.6	0.17	3.3	<0.3	17.3	3.7	0.03
D00006927	9.1	6.5	0.27	2.7	<0.3	44.7	2.2	0.03
D00006928	12.9	10.3	0.25	4.3	<0.3	32.3	3.2	0.03
D00006929	36.2	7.5	0.22	5.4	<0.3	24.2	2.5	0.03
D00006930	2.3	0.9	<0.05	0.6	<0.3	16.7	0.3	0.04
D00007809	32.5	15.8	0.23	2.3	<0.3	14.6	2.8	0.03
B00266352	15.6	12.1	0.18	2.7	1.2	11.2	1.2	0.10
B00266353	13.6	16.2	0.18	1.3	0.5	13.7	1.0	0.08
B00266354	8.3	15.8	0.17	1.5	1.3	12.9	0.5	0.08
B00266355	12.7	28.4	0.23	3.3	0.6	14.4	3.2	0.09
B00266356	10.1	19.2	0.27	3.4	1.0	16.6	3.6	0.15

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006581	24.5	14.8	0.11	3.6	<0.3	22.0	6.0	0.03
*Rep D00006590	36.3	8.2	0.17	5.0	<0.3	16.4	8.1	0.04
*Rep D00006923	30.4	18.4	0.29	4.8	0.4	14.3	11.2	0.10
*Std OREAS920	20.7	24.2	0.57	3.0	1.0	16.8	16.4	0.12
*Std OREAS151B	39.8	19.6	0.49	9.5	1.1	38.7	2.6	0.08
*Std OREAS902	10.1	9.6	0.85	2.9	<0.3	21.2	5.2	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006558	0.39	4.14	29	0.2	22.5	79
D00006559	0.14	2.13	11	0.1	13.3	57
D00006560	0.14	2.26	11	0.3	14.0	57
D00006561	0.15	2.78	4	0.1	19.1	23
D00006562	0.26	2.02	18	<0.1	9.06	24
D00006563	0.15	1.64	13	0.1	9.42	88
D00006564	0.47	4.51	39	0.1	15.7	70
D00006565	0.23	1.27	27	0.2	6.98	37
D00006566	0.25	1.01	48	2.3	7.04	64
D00006567	0.84	3.64	79	<0.1	20.2	97
D00006568	0.88	4.15	88	0.1	24.2	162
D00006569	0.40	4.62	28	<0.1	18.6	78
D00006570	0.32	0.97	41	0.2	8.33	119
D00006571	0.28	1.17	67	0.1	11.4	454
D00006572	0.26	1.17	25	<0.1	11.7	74
D00006573	0.23	1.25	22	0.4	4.89	28
D00006574	0.23	0.86	39	0.1	8.53	98
D00006575	0.16	0.58	50	0.1	7.27	39
D00006576	0.28	1.33	33	0.4	9.37	67
D00006577	0.33	0.50	107	0.4	4.34	133
D00006578	0.21	1.05	36	0.1	27.1	217
D00006579	0.17	0.67	41	0.2	4.18	86
D00006580	<0.02	0.15	2	<0.1	0.70	1
D00006581	0.15	2.03	45	<0.1	19.3	77
D00006582	0.09	1.82	27	<0.1	20.3	193
D00006583	0.13	1.22	29	<0.1	8.79	129
D00006584	0.13	1.16	26	0.1	17.9	194
D00006585	0.12	1.19	32	0.2	10.7	184
D00006586	0.09	0.84	33	<0.1	6.78	166
D00006587	0.20	0.76	137	<0.1	19.4	190
D00006588	0.06	0.87	40	0.4	6.86	169
D00006589	0.09	1.93	56	0.1	26.8	141
D00006590	0.09	1.01	60	0.1	7.29	159
D00006591	0.06	2.03	37	<0.1	14.8	131
D00006592	0.08	1.81	37	0.2	10.7	148
D00006593	0.06	1.25	30	0.1	9.08	119
D00006594	0.08	0.58	45	0.2	6.56	130
D00006595	0.08	2.89	36	0.1	17.3	138
D00006596	0.16	2.30	38	0.1	15.8	258
D00006597	0.16	1.08	33	0.1	8.19	73

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006901	0.17	0.96	19	<0.1	7.35	53
D00006902	0.13	1.49	21	0.2	10.0	56
D00006903	0.09	2.27	34	0.1	20.1	68
D00006904	0.12	3.81	10	0.1	12.9	32
D00006905	0.12	7.02	10	<0.1	12.6	36
D00006906	0.03	0.71	8	<0.1	3.46	45
D00006907	0.12	1.41	17	0.1	19.7	40
D00006908	0.14	1.39	19	0.5	10.7	50
D00006909	0.14	0.99	22	0.1	8.08	34
D00006910	0.09	2.13	17	0.1	14.0	18
D00006911	<0.02	0.13	8	<0.1	0.34	5
D00006912	<0.02	0.16	7	<0.1	0.39	4
D00006913	0.03	0.28	10	<0.1	1.52	7
D00006914	0.10	0.74	14	0.1	4.76	17
D00006915	0.14	2.01	22	0.2	16.5	27
D00006916	0.08	3.10	11	<0.1	6.90	17
D00006917	0.04	0.32	19	<0.1	1.68	17
D00006918	0.10	1.08	7	<0.1	2.18	12
D00006919	0.16	0.74	38	0.2	5.87	67
D00006920	<0.02	0.09	2	<0.1	0.68	1
D00006921	0.08	0.51	12	<0.1	2.26	16
D00006922	0.04	0.19	10	<0.1	0.89	6
D00006923	0.20	1.52	47	0.2	12.0	185
D00006924	<0.02	0.10	11	<0.1	0.19	5
D00006925	0.14	0.69	53	0.2	4.81	90
D00006926	0.10	0.58	43	<0.1	5.52	86
D00006927	0.09	0.81	34	0.1	11.0	69
D00006928	0.08	1.19	50	0.1	11.4	111
D00006929	0.09	0.68	83	0.1	7.37	150
D00006930	0.02	0.19	26	<0.1	1.49	13
D00007809	0.20	1.54	31	0.2	5.06	140
B00266352	0.12	3.34	49	0.2	11.8	146
B00266353	0.14	2.25	26	0.2	15.2	99
B00266354	0.17	1.42	45	1.0	7.17	41
B00266355	0.20	4.54	41	0.2	32.5	50
B00266356	0.13	1.00	51	0.4	10.2	65

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Final : VC172760 Order: PO# BMC17-01012

Report File No.: 0000024653

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006581	0.13	2.03	43	<0.1	18.9	75
*Rep D00006590	0.08	0.97	58	0.1	6.89	155
*Rep D00006923	0.21	1.54	48	0.2	12.2	191
*Std OREAS920	0.16	2.22	26	0.5	18.2	116
*Std OREAS151B	0.14	0.64	152	0.5	10.6	247
*Std OREAS902	0.22	2.34	10	2.1	7.46	8
*Blk BLANK	<0.02	<0.05	1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172761
[Report File No.: 0000024921]

Date: September 26, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01012
Project No.: KZK
Samples: 71
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
71	G_LOG02	Pre-preparation processing, sorting, logging, boxing
71	G_WGH79	Weighing of samples and reporting of weights
71	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
71	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00266357	0.470	<5	0.02	1.44	4	115	0.27	0.23
B00266358	0.385	<5	0.03	0.18	<1	28	0.02	0.14
B00266359	0.545	<5	0.07	1.74	4	97	0.40	0.34
B00266360	0.110	<5	<0.01	<0.01	<1	<5	<0.02	<0.01
B00266361	0.515	<5	0.05	2.21	10	155	0.20	0.60
B00266362	0.315	<5	0.04	1.31	5	119	0.20	0.92
B00266363	0.680	<5	0.14	0.82	4	89	0.15	0.23
B00266364	0.450	<5	0.04	1.06	5	67	0.14	0.11
B00266365	0.505	<5	0.32	1.72	18	74	0.25	0.16
B00266366	0.720	<5	0.03	1.26	13	114	0.23	0.15
B00266367	0.555	<5	0.07	1.31	14	91	0.35	0.18
B00266368	0.435	<5	0.02	0.24	<1	10	<0.02	0.03
B00266369	0.685	10	0.07	0.63	7	34	0.31	0.02
B00266370	0.270	7	0.11	2.56	45	142	0.16	0.79
B00266371	0.445	6	0.56	0.93	63	126	0.36	0.55
B00266372	0.600	7	0.46	1.03	4	133	0.39	0.43
B00266373	0.455	8	0.14	1.82	44	123	0.22	0.60
B00266374	0.330	7	0.73	0.75	4	341	0.32	1.47
B00266375	0.535	<5	0.14	1.06	15	133	0.16	0.48
B00266376	0.510	14	0.33	0.91	10	85	0.26	0.75
B00266377	0.320	<5	0.18	0.87	12	110	0.34	0.37
B00266378	0.530	5	0.15	0.60	8	164	0.16	0.71
B00266379	0.300	<5	0.23	0.64	7	124	0.50	0.66
B00266380	0.375	<5	0.15	1.22	9	135	0.21	0.22
B00266381	0.535	<5	0.08	1.87	11	96	0.23	0.17
B00292955	0.285	<5	0.14	0.80	5	141	0.30	0.16
B00292956	0.575	<5	0.02	1.38	5	80	0.21	0.21
B00292957	0.560	<5	0.03	1.12	10	62	0.32	0.14
B00292958	0.335	8	0.06	1.30	5	149	0.29	0.39
B00292959	0.350	<5	0.06	0.44	2	50	0.07	0.12
B00292960	0.330	<5	0.07	0.54	2	56	0.06	0.13
B00292961	0.265	6	0.14	1.56	24	270	0.34	0.45
B00292962	0.395	7	0.05	1.28	5	72	0.21	0.18
B00292963	0.380	<5	0.08	1.21	6	318	0.45	0.26
B00292964	0.390	<5	0.05	1.23	9	128	0.42	0.25
B00292965	0.365	6	0.03	1.19	5	146	0.46	0.36
B00292966	0.440	<5	0.03	0.77	3	131	0.27	0.31
B00292967	0.260	<5	0.08	0.52	4	63	0.12	0.10
B00292968	0.200	<5	0.15	1.62	10	137	0.21	0.90
B00292969	0.510	<5	0.03	1.17	3	63	0.32	0.08

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
B00292970	0.540	<5	0.04	0.94	7	71	0.32	0.11
B00292971	0.580	<5	0.05	1.36	8	121	0.20	0.24
B00292972	0.555	<5	0.10	1.18	8	142	0.20	0.26
B00292973	0.465	12	0.14	2.24	190	245	0.18	0.30
B00292974	0.425	6	0.09	1.52	19	71	0.25	0.17
B00292975	0.480	<5	0.06	1.15	8	121	0.30	0.21
B00292976	0.555	<5	0.33	0.84	15	76	0.48	0.10
B00292977	0.505	<5	0.08	0.83	9	51	0.39	0.08
B00292978	0.505	<5	0.43	0.84	10	77	0.60	0.08
B00292979	0.510	6	0.67	0.47	65	162	0.51	0.05
B00292980	0.110	<5	<0.01	<0.01	1	<5	<0.02	<0.01
B00292981	0.530	6	1.78	0.82	77	1010	0.69	0.07
B00292982	0.460	6	1.22	0.86	46	541	0.71	0.05
B00292983	0.430	15	1.81	0.88	104	530	1.33	0.05
B00292984	0.395	6	1.10	0.75	78	280	0.55	0.03
B00292985	0.545	10	0.94	0.27	140	307	0.38	0.12
B00292986	0.475	62	5.62	0.47	292	261	0.50	0.05
B00292987	0.235	15	2.46	1.18	104	362	1.03	0.07
B00292988	0.260	<5	0.73	0.73	19	342	0.38	0.11
B00292989	0.445	7	0.05	0.86	12	61	0.42	0.05
B00292990	0.375	<5	0.33	1.01	8	179	0.35	0.11
B00292991	0.365	<5	0.13	1.27	10	144	0.34	0.16
B00292992	0.450	15	0.05	1.02	9	83	0.25	0.16
B00292993	0.590	9	0.26	0.68	10	127	0.18	0.09
B00292994	0.795	<5	0.28	1.52	10	217	0.33	0.29
B00292995	0.515	<5	0.14	1.58	4	124	0.28	0.28
B00292996	0.655	<5	0.08	1.55	8	186	0.32	0.27
B00292997	0.205	<5	0.38	1.65	8	179	0.32	0.17
B00292998	0.605	<5	0.08	1.83	7	141	0.23	0.34
B00292999	0.420	<5	0.09	0.66	2	43	0.11	0.07
B00293000	0.295	<5	0.04	0.35	<1	21	0.03	0.05
*Std OREAS151B		66						
*Std OXK119		3660						
*Std AMIS0282		197						
*Blk BLANK		<5						
*Blk BLANK		<5						
*Rep B00266375			0.14	1.17	16	133	0.16	0.50
*Rep B00292968			0.16	1.49	11	136	0.20	0.90
*Rep B00292990			0.31	0.97	10	179	0.35	0.11
*Std OREAS920			0.09	2.46	6	77	0.67	0.33

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Final : VC172761 Order: PO# BMC17-01012

Report File No.: 0000024921

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Std OREAS151B		0.55	2.53	35	70	0.38	1.36
*Std OREAS902		0.28	0.48	613	15	8.45	4.12
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep B00266363	<5						
*Rep B00292956	<5						
*Rep B00292996	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00266357	0.06	77.3	7.4	19	9.3	2.86	5.0	<0.01
B00266358	0.03	9.07	1.6	3	6.2	0.52	1.3	<0.01
B00266359	0.08	90.5	9.1	30	14.1	3.40	6.7	0.02
B00266360	<0.01	1.03	<0.1	1	0.7	0.02	<0.1	<0.01
B00266361	0.22	109	15.3	34	23.1	4.75	8.9	0.01
B00266362	0.21	34.5	3.6	24	9.6	2.47	7.1	<0.01
B00266363	0.17	88.1	3.0	9	9.6	1.93	3.7	0.01
B00266364	0.12	105	4.3	11	7.1	1.91	4.0	0.02
B00266365	0.16	50.9	8.7	25	13.2	3.66	6.3	0.02
B00266366	0.07	70.2	7.7	20	15.9	2.62	4.2	0.02
B00266367	0.13	58.8	7.7	27	13.4	3.01	6.2	0.01
B00266368	0.38	2.54	1.0	2	4.1	0.33	1.3	0.02
B00266369	0.08	56.3	4.6	7	9.5	2.08	5.4	0.04
B00266370	1.69	93.9	19.1	17	16.4	5.86	9.2	0.02
B00266371	2.51	87.2	13.4	9	29.0	3.44	3.5	0.07
B00266372	0.11	51.0	2.6	22	13.3	1.92	5.4	0.14
B00266373	0.66	88.2	14.0	15	15.7	4.30	6.8	0.02
B00266374	0.49	119	8.8	5	27.4	2.75	3.7	0.07
B00266375	0.10	86.6	16.5	12	18.8	3.06	3.9	0.01
B00266376	0.75	101	16.6	11	32.2	3.84	4.1	0.05
B00266377	0.35	120	15.1	10	16.3	2.58	3.6	0.04
B00266378	0.42	215	11.8	7	18.1	2.06	3.0	0.02
B00266379	0.30	48.9	5.5	3	11.7	3.22	2.4	0.04
B00266380	0.17	67.7	6.8	18	10.5	2.62	4.9	0.04
B00266381	0.14	53.2	8.6	26	18.5	3.33	5.7	0.02
B00292955	1.04	31.0	4.7	29	12.9	1.82	5.5	<0.01
B00292956	0.21	68.8	7.2	18	11.9	2.66	4.6	<0.01
B00292957	0.09	20.2	6.6	44	10.9	2.26	6.1	0.01
B00292958	0.26	63.4	6.0	27	11.1	2.29	6.7	0.02
B00292959	0.02	10.5	1.3	7	3.3	0.60	2.0	<0.01
B00292960	0.04	13.3	2.1	6	3.9	0.59	2.1	0.02
B00292961	0.25	56.1	5.5	33	13.4	2.51	6.5	0.03
B00292962	0.16	33.4	6.0	25	9.3	1.93	6.6	0.01
B00292963	0.24	39.4	5.5	25	12.1	2.70	6.1	0.02
B00292964	0.16	30.1	15.2	39	25.3	4.12	8.4	<0.01
B00292965	0.15	32.3	7.3	30	12.1	2.48	6.4	0.01
B00292966	0.16	48.1	4.2	25	11.3	1.93	6.2	0.01
B00292967	0.05	37.2	3.0	9	8.6	1.29	2.8	0.02
B00292968	0.24	56.5	10.7	17	17.9	3.20	5.4	0.03
B00292969	0.06	37.7	4.9	18	9.6	2.22	9.2	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
B00292970	0.13	57.5	7.4	21	9.5	2.39	5.1	0.03
B00292971	0.10	91.0	7.6	21	13.3	2.61	4.8	0.01
B00292972	0.08	111	6.5	18	14.9	3.17	5.1	0.02
B00292973	0.35	69.1	66.6	30	23.3	9.47	7.1	0.02
B00292974	0.37	51.0	12.6	20	18.8	4.11	5.2	0.02
B00292975	0.18	83.5	8.5	21	14.6	2.99	5.3	0.01
B00292976	0.21	71.0	3.5	14	14.6	1.56	3.2	0.03
B00292977	0.24	51.4	5.7	14	10.0	1.44	3.1	0.05
B00292978	1.72	60.8	7.5	12	20.0	1.45	2.9	0.06
B00292979	0.89	38.3	3.4	15	76.2	2.73	2.3	0.30
B00292980	<0.01	0.86	<0.1	<1	<0.5	0.02	<0.1	<0.01
B00292981	0.80	42.0	9.5	24	65.3	2.80	2.9	0.26
B00292982	0.46	38.4	6.2	19	44.3	2.11	3.1	0.13
B00292983	0.51	39.8	5.4	17	61.5	2.13	2.8	0.38
B00292984	0.52	56.2	4.5	16	39.1	2.24	2.3	0.16
B00292985	0.74	35.2	6.2	6	41.8	2.01	1.1	0.09
B00292986	1.10	33.7	4.4	9	52.5	1.91	1.6	0.53
B00292987	0.94	84.4	4.0	21	103	2.65	4.0	0.38
B00292988	0.70	69.1	4.2	16	14.0	1.45	2.8	0.09
B00292989	0.14	29.4	2.9	21	12.1	1.49	5.9	0.04
B00292990	0.50	38.6	5.7	29	11.3	1.83	3.9	0.04
B00292991	0.56	40.3	7.2	33	13.2	2.28	4.6	0.03
B00292992	0.29	21.0	5.9	32	10.4	2.07	5.2	<0.01
B00292993	2.64	37.9	18.5	12	41.8	2.80	2.0	0.08
B00292994	3.10	56.4	13.0	40	16.2	2.31	5.3	0.03
B00292995	0.43	26.5	6.4	45	9.6	2.03	6.2	0.01
B00292996	0.96	59.1	10.9	44	16.9	2.58	5.9	<0.01
B00292997	1.00	54.8	11.1	37	16.6	2.41	5.7	0.04
B00292998	0.63	43.6	9.9	52	13.4	2.86	6.7	<0.01
B00292999	0.14	15.3	3.3	17	4.9	1.06	3.1	<0.01
B00293000	0.05	7.00	1.3	6	2.6	0.52	1.5	<0.01
*Rep B00266375	0.12	88.0	17.4	14	19.4	3.14	4.1	0.02
*Rep B00292968	0.24	57.5	10.8	17	17.2	3.10	5.3	0.03
*Rep B00292990	0.52	39.4	5.6	27	11.4	1.83	3.7	0.04
*Std OREAS920	0.07	74.2	13.6	45	107	3.70	7.0	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Std OREAS151B	0.64	16.7	10.6	29	1710	3.33	7.2	<0.01
*Std OREAS902	0.02	30.6	968	23	2800	3.05	1.5	0.04
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00266357	0.42	37.7	0.57	479	1.32	0.01	11.7	630
B00266358	0.02	7.0	0.04	98	0.14	0.03	2.2	250
B00266359	0.57	47.0	0.75	401	1.44	0.01	18.8	1250
B00266360	<0.01	0.5	<0.01	<2	<0.05	<0.01	<0.5	<50
B00266361	0.96	48.2	0.86	913	1.29	0.02	23.9	1880
B00266362	0.24	20.9	0.50	462	1.59	0.02	7.4	700
B00266363	0.35	44.9	0.27	52	1.83	<0.01	4.5	790
B00266364	0.17	50.9	0.29	284	1.03	0.01	9.1	510
B00266365	0.23	25.2	0.68	343	1.61	0.01	18.8	800
B00266366	0.20	39.6	0.37	543	1.49	0.01	17.0	510
B00266367	0.25	27.8	0.62	468	1.75	0.01	18.3	530
B00266368	0.02	1.7	0.03	18	0.06	0.03	0.8	90
B00266369	0.25	26.2	0.19	183	1.58	<0.01	5.8	210
B00266370	1.49	47.8	1.41	912	1.72	0.01	8.3	1410
B00266371	0.28	48.1	0.35	1440	2.38	0.01	21.8	610
B00266372	0.11	30.4	0.36	47	1.46	0.01	10.1	680
B00266373	0.76	44.7	0.89	891	2.03	0.01	10.2	930
B00266374	0.20	73.0	0.30	826	2.95	0.01	18.2	810
B00266375	0.28	46.8	0.41	950	1.50	<0.01	13.4	1280
B00266376	0.20	51.4	0.45	847	2.19	0.01	34.3	1130
B00266377	0.23	62.1	0.32	1060	1.40	0.01	12.8	970
B00266378	0.15	67.6	0.13	943	1.62	<0.01	14.2	890
B00266379	0.22	25.3	0.21	1520	3.62	0.01	6.3	450
B00266380	0.08	43.2	0.38	214	1.24	<0.01	13.9	440
B00266381	0.06	27.7	0.66	294	0.82	<0.01	16.9	570
B00292955	0.13	15.9	0.40	199	1.14	0.01	12.8	650
B00292956	0.33	34.1	0.53	345	1.37	0.01	13.2	840
B00292957	0.20	9.7	0.62	209	1.06	0.01	16.8	460
B00292958	0.10	31.1	0.43	616	1.69	0.01	13.9	1040
B00292959	0.03	5.7	0.06	141	0.49	0.03	3.0	600
B00292960	0.02	7.3	0.07	412	0.34	0.03	2.7	640
B00292961	0.07	35.1	0.34	701	2.03	0.01	16.3	2810
B00292962	0.05	16.7	0.38	471	1.43	0.01	9.8	870
B00292963	0.06	20.0	0.16	1400	3.52	0.01	9.0	2300
B00292964	0.17	16.3	0.38	832	2.58	0.01	47.3	1120
B00292965	0.13	15.4	0.47	818	1.42	0.01	14.7	750
B00292966	0.18	26.0	0.32	219	1.21	0.01	10.2	390
B00292967	0.12	19.3	0.17	120	0.50	0.02	4.6	400
B00292968	0.58	36.2	0.50	861	1.47	0.02	10.4	1090
B00292969	0.51	19.3	0.49	164	1.21	0.01	7.4	190

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
B00292970	0.27	27.5	0.37	572	1.56	0.01	11.0	490
B00292971	0.20	53.0	0.51	308	1.11	0.01	17.2	860
B00292972	0.25	59.1	0.42	266	1.29	0.01	13.0	1000
B00292973	0.70	25.7	0.57	3120	2.12	<0.01	102	2010
B00292974	0.22	22.5	0.45	502	1.93	0.01	25.0	840
B00292975	0.23	31.3	0.50	518	1.51	0.01	18.6	590
B00292976	0.06	34.9	0.19	136	3.00	0.01	12.9	730
B00292977	0.04	27.1	0.19	173	2.21	0.01	11.8	590
B00292978	0.04	30.1	0.16	326	2.23	0.01	18.6	540
B00292979	0.06	18.8	0.09	86	6.25	0.01	18.4	770
B00292980	<0.01	0.4	<0.01	<2	0.10	<0.01	<0.5	<50
B00292981	0.12	24.5	0.21	163	8.44	0.01	53.6	1030
B00292982	0.08	19.7	0.19	118	5.23	0.01	33.3	880
B00292983	0.09	20.8	0.18	81	4.94	0.01	29.8	770
B00292984	0.09	29.9	0.13	92	5.03	0.01	26.3	710
B00292985	0.05	17.6	0.03	248	3.68	0.01	19.1	520
B00292986	0.09	17.3	0.09	197	3.87	0.01	15.2	370
B00292987	0.09	45.8	0.18	155	5.99	0.01	17.3	1230
B00292988	0.08	34.6	0.17	113	2.29	0.01	13.0	830
B00292989	0.08	13.8	0.17	97	1.25	0.01	8.5	450
B00292990	0.16	18.6	0.44	195	1.50	0.01	15.9	500
B00292991	0.16	19.1	0.52	264	1.31	0.01	20.1	770
B00292992	0.17	10.1	0.46	199	1.05	0.01	15.3	710
B00292993	0.11	18.0	0.16	780	2.20	0.01	29.5	680
B00292994	0.20	26.4	0.71	281	1.92	0.02	28.0	1030
B00292995	0.27	13.6	0.70	150	0.93	0.02	18.4	1060
B00292996	0.20	27.3	0.72	539	1.18	0.02	24.7	980
B00292997	0.18	27.4	0.54	669	1.96	0.03	20.2	1030
B00292998	0.20	19.9	0.92	291	1.40	0.02	23.4	1120
B00292999	0.06	6.5	0.25	116	0.50	0.02	6.9	330
B00293000	0.03	3.4	0.08	37	0.18	0.03	2.4	270
*Rep B00266375	0.30	48.2	0.42	959	1.56	<0.01	14.3	1330
*Rep B00292968	0.60	35.5	0.52	831	1.37	0.02	10.0	1030
*Rep B00292990	0.16	19.3	0.42	190	1.46	0.01	15.2	460
*Std OREAS920	0.43	36.7	1.02	532	0.41	0.03	38.1	710

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Std OREAS151B	0.40	7.3	1.33	288	57.2	0.17	14.8	540
*Std OREAS902	0.25	14.3	2.08	485	12.1	0.01	160	670
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00266357	10.9	42.5	0.15	3.8	0.4	7.4	10.6	0.13
B00266358	1.5	1.3	<0.05	0.4	<0.3	7.8	0.5	0.03
B00266359	16.2	59.4	0.16	4.6	0.6	10.6	14.4	0.21
B00266360	0.6	<0.2	<0.05	<0.1	<0.3	0.6	0.3	<0.01
B00266361	9.7	94.9	0.13	7.4	0.7	19.9	12.0	0.34
B00266362	8.6	30.6	0.10	4.7	1.3	22.0	4.0	0.14
B00266363	8.9	44.1	0.11	2.1	<0.3	7.3	13.4	0.06
B00266364	12.6	19.4	0.17	1.6	<0.3	6.8	17.5	0.04
B00266365	21.3	40.4	0.14	4.0	0.5	7.8	7.8	0.07
B00266366	13.6	29.1	0.27	2.6	0.4	7.7	10.7	0.07
B00266367	19.0	35.5	0.26	3.1	0.8	9.6	9.2	0.09
B00266368	6.6	0.8	0.08	0.3	<0.3	4.9	0.3	0.03
B00266369	14.6	29.8	0.25	2.1	0.5	3.9	11.1	0.10
B00266370	124	107	0.15	10.4	0.4	24.1	15.3	0.38
B00266371	192	33.1	0.36	3.2	<0.3	18.7	15.1	0.05
B00266372	39.2	17.6	0.13	1.9	0.9	16.0	2.7	0.03
B00266373	94.5	79.1	0.13	6.7	<0.3	19.6	15.4	0.24
B00266374	66.9	36.9	0.23	1.3	<0.3	52.8	8.6	0.05
B00266375	26.1	38.8	0.12	3.2	<0.3	13.3	10.5	0.07
B00266376	41.4	24.2	0.24	2.6	<0.3	21.4	9.3	0.04
B00266377	36.2	30.9	0.14	2.5	<0.3	13.5	11.6	0.04
B00266378	34.2	15.4	0.16	1.1	<0.3	26.2	6.4	0.02
B00266379	45.3	30.0	0.15	2.0	<0.3	17.0	11.1	0.02
B00266380	18.6	19.7	0.13	2.7	0.4	8.7	7.9	0.03
B00266381	22.4	9.8	0.13	4.1	0.3	6.0	9.8	0.03
B00292955	13.1	21.4	0.20	2.2	1.2	9.6	1.2	0.09
B00292956	16.6	36.2	0.26	3.4	0.4	8.6	11.7	0.12
B00292957	10.0	24.8	0.21	2.4	0.7	5.3	3.8	0.17
B00292958	13.4	23.1	0.30	1.1	1.1	13.4	0.6	0.05
B00292959	4.7	4.7	0.06	0.2	<0.3	6.9	<0.1	0.02
B00292960	3.3	3.2	0.06	0.3	<0.3	7.9	<0.1	0.02
B00292961	22.2	27.2	0.30	0.5	0.9	21.1	0.3	0.02
B00292962	16.3	11.8	0.18	0.7	0.9	9.8	0.3	0.05
B00292963	19.1	21.7	0.32	0.5	1.0	16.6	0.2	0.02
B00292964	32.7	49.3	0.25	2.0	0.8	10.8	0.9	0.10
B00292965	19.3	28.4	0.31	2.2	1.1	12.8	1.8	0.09
B00292966	7.6	29.1	0.19	1.8	1.0	10.2	3.7	0.12
B00292967	12.6	13.5	0.07	1.0	<0.3	6.4	0.7	0.05
B00292968	58.7	67.9	0.11	4.4	0.4	31.7	6.4	0.21
B00292969	5.7	55.0	0.13	3.9	1.6	5.6	8.3	0.26

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
B00292970	12.0	47.7	0.10	2.5	0.7	7.1	8.9	0.08
B00292971	18.1	23.8	0.14	3.0	0.4	11.9	11.1	0.08
B00292972	27.4	31.3	0.27	4.1	<0.3	11.7	14.9	0.09
B00292973	22.3	75.6	0.13	5.9	0.4	12.9	9.5	0.21
B00292974	18.9	30.9	0.19	2.9	0.4	8.4	8.7	0.07
B00292975	26.3	43.8	0.24	2.7	0.5	11.4	10.0	0.07
B00292976	45.2	7.0	0.99	1.3	<0.3	8.2	11.6	0.03
B00292977	29.3	6.1	0.70	0.9	<0.3	6.6	3.1	0.03
B00292978	47.6	6.2	0.84	1.4	<0.3	7.6	8.9	0.02
B00292979	94.4	5.4	4.30	1.1	<0.3	20.3	14.5	0.02
B00292980	0.4	<0.2	<0.05	<0.1	<0.3	<0.5	0.4	<0.01
B00292981	166	10.7	5.28	1.6	0.3	76.4	6.8	0.03
B00292982	102	9.8	2.97	1.1	0.3	35.2	3.3	0.02
B00292983	133	10.6	4.87	1.0	0.4	27.5	3.2	0.02
B00292984	103	9.7	3.43	0.9	<0.3	24.9	4.5	0.02
B00292985	59.6	4.7	1.84	0.6	<0.3	9.2	5.5	<0.01
B00292986	266	6.2	15.2	0.8	<0.3	11.5	10.9	0.02
B00292987	251	16.6	6.29	0.7	0.5	15.0	1.7	0.02
B00292988	38.0	8.5	1.05	1.0	0.4	8.5	1.5	0.02
B00292989	18.8	9.6	0.45	1.3	1.2	6.1	1.9	0.10
B00292990	68.4	17.7	0.55	2.1	0.6	6.8	4.4	0.07
B00292991	28.4	21.3	0.48	2.4	0.6	8.8	5.0	0.08
B00292992	11.9	17.9	0.31	2.0	0.6	7.8	1.8	0.11
B00292993	51.1	10.8	0.43	1.6	<0.3	5.7	7.8	0.02
B00292994	112	23.5	0.41	4.3	0.7	12.8	8.6	0.10
B00292995	20.0	25.0	0.17	3.4	0.9	9.9	3.2	0.12
B00292996	21.7	22.3	0.24	3.6	0.7	12.0	5.9	0.11
B00292997	39.0	22.7	0.28	2.4	0.6	10.7	1.6	0.07
B00292998	11.1	18.4	0.13	3.8	0.9	12.0	2.7	0.15
B00292999	3.7	5.9	0.08	1.0	<0.3	6.2	0.4	0.05
B00293000	2.5	2.1	<0.05	0.3	<0.3	4.1	<0.1	0.02
*Rep B00266375	26.9	42.2	0.12	3.3	<0.3	13.7	10.7	0.07
*Rep B00292968	57.7	67.6	0.10	4.5	0.3	30.9	6.5	0.20
*Rep B00292990	68.0	17.4	0.52	2.1	0.6	7.2	5.0	0.07
*Std OREAS920	19.9	24.3	0.54	3.0	1.0	16.4	16.7	0.13

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Std OREAS151B	39.5	20.1	0.52	9.8	1.0	36.5	2.7	0.07
*Std OREAS902	10.1	8.9	0.77	2.8	<0.3	20.8	5.4	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
B00266357	0.35	0.87	33	0.1	9.90	51
B00266358	0.02	0.25	16	<0.1	3.41	10
B00266359	0.47	1.17	38	0.1	12.5	71
B00266360	<0.02	0.09	1	<0.1	0.64	1
B00266361	0.68	1.17	64	0.2	24.9	90
B00266362	0.14	7.04	24	0.2	10.8	97
B00266363	0.38	0.82	21	<0.1	10.4	42
B00266364	0.17	1.20	15	0.1	9.63	36
B00266365	0.27	1.00	46	0.1	7.02	93
B00266366	0.29	1.13	23	0.1	9.32	54
B00266367	0.24	1.12	33	0.2	6.70	57
B00266368	0.02	0.11	15	<0.1	0.33	45
B00266369	0.22	0.99	39	0.2	4.48	46
B00266370	0.79	3.31	121	<0.1	19.9	365
B00266371	0.40	3.62	21	<0.1	28.1	1010
B00266372	0.34	0.95	24	0.2	10.2	60
B00266373	0.67	3.20	64	<0.1	17.1	266
B00266374	0.34	13.0	13	<0.1	17.6	97
B00266375	0.37	1.82	33	<0.1	22.9	46
B00266376	0.24	2.51	28	0.2	18.5	125
B00266377	0.30	2.31	26	<0.1	24.4	73
B00266378	0.14	3.65	14	<0.1	22.0	47
B00266379	0.33	4.38	6	<0.1	17.1	165
B00266380	0.13	0.72	27	0.1	7.60	126
B00266381	0.15	0.63	38	<0.1	7.59	123
B00292955	0.11	1.38	36	5.1	7.09	87
B00292956	0.31	1.11	33	0.2	9.78	90
B00292957	0.14	0.87	43	0.3	4.88	59
B00292958	0.12	1.79	34	0.3	11.6	70
B00292959	0.05	0.50	14	<0.1	1.58	11
B00292960	0.08	0.54	14	<0.1	1.98	11
B00292961	0.19	2.96	39	0.3	12.8	45
B00292962	0.09	1.69	34	0.2	5.01	33
B00292963	0.20	1.89	40	0.3	6.35	40
B00292964	0.36	1.13	71	0.4	7.95	76
B00292965	0.14	1.02	38	0.3	6.72	75
B00292966	0.13	1.03	33	0.3	7.38	51
B00292967	0.11	0.75	27	<0.1	4.86	31
B00292968	0.51	1.82	47	<0.1	18.6	106
B00292969	0.29	0.68	49	0.2	4.69	44

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
B00292970	0.21	0.97	32	0.2	5.16	47
B00292971	0.21	1.23	27	0.1	12.4	65
B00292972	0.45	1.79	33	0.2	18.6	68
B00292973	0.75	0.60	73	<0.1	13.6	177
B00292974	0.29	1.17	30	0.2	8.23	136
B00292975	0.28	1.19	26	0.1	7.88	93
B00292976	0.11	5.42	18	0.4	11.3	116
B00292977	0.14	2.48	18	0.4	8.12	138
B00292978	0.14	4.52	14	0.3	19.8	637
B00292979	0.27	5.50	27	0.4	9.32	267
B00292980	<0.02	0.09	2	<0.1	0.56	<1
B00292981	0.85	4.08	29	0.5	11.2	280
B00292982	0.49	3.48	23	0.4	9.68	205
B00292983	0.53	3.94	20	0.3	10.5	219
B00292984	0.46	4.64	21	0.2	10.5	266
B00292985	0.26	2.50	6	0.1	7.94	241
B00292986	0.32	2.57	10	0.1	6.44	326
B00292987	0.57	5.62	25	0.3	18.9	260
B00292988	0.19	4.07	16	0.3	12.9	229
B00292989	0.12	1.09	40	1.6	3.66	45
B00292990	0.15	1.50	28	0.3	6.50	189
B00292991	0.17	1.45	39	0.3	7.56	223
B00292992	0.15	0.86	40	0.4	4.72	64
B00292993	0.21	3.51	14	0.1	20.1	825
B00292994	0.24	3.26	47	0.3	14.4	1650
B00292995	0.23	1.15	44	0.4	6.37	129
B00292996	0.18	2.19	53	0.4	11.7	209
B00292997	0.22	3.21	44	0.3	12.7	222
B00292998	0.17	2.05	58	0.3	9.60	359
B00292999	0.05	0.74	22	0.2	3.10	43
B00293000	0.05	0.52	14	<0.1	1.39	12
*Rep B00266375	0.37	1.84	34	<0.1	24.4	48
*Rep B00292968	0.49	1.78	46	<0.1	18.4	106
*Rep B00292990	0.16	1.47	27	0.3	5.88	186
*Std OREAS920	0.17	2.31	22	0.5	19.2	114

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Final : VC172761 Order: PO# BMC17-01012

Report File No.: 0000024921

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Std OREAS151B	0.13	0.64	145	0.6	11.4	254
*Std OREAS902	0.23	2.39	9	2.1	7.81	7
*Blk BLANK	<0.02	<0.05	1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172765
[Report File No.: 0000024652]

Date: September 14, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01008
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007501	0.385	<5	0.04	2.57	32	150	0.21	0.32
D00007502	0.385	<5	0.06	1.44	12	99	0.43	0.21
D00007503	0.375	<5	0.04	1.86	17	112	0.42	0.32
D00007504	0.445	<5	0.02	1.78	16	101	0.23	0.30
D00007505	0.455	<5	0.02	1.68	17	100	0.25	0.31
D00007506	0.445	<5	0.02	1.37	15	99	0.25	0.23
D00007507	0.445	6	0.03	1.39	17	103	0.50	0.29
D00007508	0.455	6	0.03	1.60	16	86	0.32	0.22
D00007509	0.405	<5	0.06	1.23	24	83	0.34	0.09
D00007510	0.445	<5	0.03	0.92	12	67	0.29	0.08
D00007511	0.715	7	0.26	1.18	6	120	0.33	0.35
D00007512	0.505	<5	0.28	1.00	7	81	0.41	0.30
D00007513	0.460	5	0.05	1.08	9	61	0.31	0.13
D00007514	0.865	<5	0.09	1.54	7	186	0.25	0.33
D00007515	0.430	7	0.07	1.58	5	113	0.22	0.28
D00007516	0.395	<5	0.12	0.80	8	78	0.50	0.15
D00007517	0.485	<5	0.14	2.48	11	243	0.19	0.45
D00007518	0.405	<5	0.11	1.29	11	185	0.34	0.28
D00007519	0.390	<5	0.15	1.92	11	180	0.30	0.51
D00007520	0.565	8	0.10	0.83	33	207	0.26	0.90
D00007521	0.485	9	0.08	1.38	71	85	2.45	0.31
D00007522	0.360	7	0.03	1.76	18	170	0.15	0.29
D00007523	0.535	<5	0.05	1.89	21	176	0.20	0.19
D00007524	0.505	<5	0.02	1.57	15	104	0.14	0.25
D00007525	0.500	<5	0.05	1.79	18	113	0.17	0.22
D00007526	0.495	<5	0.02	2.03	15	95	0.15	0.27
D00007527	0.470	18	0.04	2.54	19	196	0.14	0.41
D00007528	0.680	<5	0.03	1.35	47	106	0.38	0.24
D00007529	0.570	<5	0.07	2.02	11	174	0.37	0.29
D00007530	0.780	<5	0.02	1.90	28	111	0.16	0.38
D00007531	0.620	<5	0.06	1.44	16	85	0.17	0.23
D00007532	0.425	<5	0.07	1.43	18	83	0.42	0.12
D00007533	0.180	<5	0.21	1.82	26	261	0.27	0.20
D00007534	0.515	<5	0.06	1.40	25	116	0.35	0.16
D00007535	0.395	12	0.06	0.89	23	58	1.07	0.12
D00007536	0.505	10	0.04	2.08	13	120	0.36	0.37
D00007537	0.550	<5	0.06	2.37	60	304	0.39	0.70
D00007538	0.375	12	0.54	3.21	5	495	0.29	0.86
D00007539	0.375	<5	0.05	1.15	33	68	0.51	0.21
D00007540	0.485	<5	0.04	1.25	35	71	0.53	0.21

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007541	0.315	<5	0.03	1.45	41	41	0.52	0.15
D00007542	0.355	8	0.03	1.75	10	101	0.13	0.27
D00007543	0.435	11	0.03	1.68	26	76	0.16	0.28
D00007544	0.455	<5	0.05	1.88	50	110	0.32	0.24
D00007545	0.555	<5	0.03	1.64	18	88	0.16	0.30
D00007546	0.490	5	0.10	1.43	35	99	0.27	0.17
D00007547	0.445	<5	0.04	1.78	24	99	0.25	0.21
D00007548	0.185	<5	0.02	0.47	<1	22	0.04	0.08
D00007549	0.395	8	0.04	3.27	32	251	0.25	0.53
D00007550	0.585	<5	0.02	1.46	16	86	0.14	0.27
D00007551	0.605	<5	0.03	1.60	19	93	0.15	0.30
D00007552	0.600	10	0.02	2.44	12	211	0.20	0.44
D00007553	0.675	<5	0.02	1.82	15	118	0.15	0.40
D00007554	0.475	5	0.02	1.59	19	80	0.21	0.29
D00007555	0.545	7	0.03	2.07	20	80	0.25	0.26
D00007556	0.570	<5	0.06	1.64	44	105	0.33	0.34
D00007557	0.630	<5	0.04	1.48	19	76	0.20	0.30
D00007558	0.505	<5	0.03	1.19	28	104	0.22	0.25
D00007559	0.570	<5	0.06	4.14	19	238	0.24	0.68
D00007560	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00007561	0.525	<5	0.06	2.09	136	192	0.43	0.59
D00007562	0.490	10	0.06	3.46	54	234	0.25	0.96
D00007563	0.300	8	0.11	3.80	79	208	0.37	0.99
D00007564	0.180	<5	0.22	2.49	137	214	0.64	0.72
D00007565	0.165	<5	0.74	2.17	147	308	0.99	0.91
D00007566	0.355	<5	0.26	2.76	46	214	0.72	0.74
D00007567	0.525	<5	0.12	2.16	27	182	0.57	0.44
D00007568	0.355	<5	0.03	1.28	18	104	0.48	0.38
D00007569	0.370	<5	0.19	1.94	11	198	0.44	0.61
D00007570	0.400	9	0.42	3.35	43	427	0.43	0.74
D00007571	0.345	8	0.48	3.23	34	309	0.94	0.67
D00007572	0.245	6	0.43	3.59	21	329	0.87	0.76
D00007573	0.255	7	0.28	2.39	85	268	1.48	0.47
D00007574	0.445	<5	0.30	2.81	33	352	0.42	0.88
D00007575	0.220	<5	0.29	2.12	92	257	1.20	0.70
D00007576	0.545	<5	0.51	1.63	44	169	0.50	1.03
*Rep D00007511		7						
*Std OREAS151B		67						
*Std OXK119		3470						
*Std AMIS0282		193						

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Final : VC172765 Order: PO# BMC17-01008

Report File No.: 0000024652

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Blk BLANK	<5						
*Rep D00007522		0.02	1.68	17	150	0.15	0.25
*Rep D00007558		0.03	1.15	29	105	0.24	0.25
*Std OREAS920		0.10	2.25	5	86	0.67	0.34
*Std OREAS151B		0.54	2.51	34	70	0.41	1.40
*Std OREAS902		0.30	0.50	626	15	8.76	4.13
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007545	<5						
*Rep D00007576	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007501	0.11	46.5	16.5	50	18.7	4.22	9.4	<0.01
D00007502	0.09	30.4	10.0	27	16.0	2.76	6.3	<0.01
D00007503	0.22	52.3	13.6	43	20.8	3.27	7.1	<0.01
D00007504	0.12	39.4	13.0	40	18.5	3.20	6.9	<0.01
D00007505	0.15	45.6	12.3	37	18.4	3.10	6.2	<0.01
D00007506	0.18	40.5	9.3	28	15.4	2.43	5.8	<0.01
D00007507	0.19	41.6	10.3	29	16.3	2.50	5.2	<0.01
D00007508	0.16	44.8	9.3	33	18.6	2.66	6.1	<0.01
D00007509	0.20	40.3	8.1	27	16.9	2.77	6.6	<0.01
D00007510	0.08	30.2	5.4	24	10.8	1.69	5.6	<0.01
D00007511	1.77	113	12.7	21	26.4	2.72	4.4	<0.01
D00007512	0.64	65.0	8.5	19	21.0	2.56	4.8	0.01
D00007513	0.37	34.4	4.5	19	10.8	2.06	5.8	<0.01
D00007514	0.27	62.8	9.5	28	22.7	2.94	6.3	<0.01
D00007515	0.15	70.0	10.2	22	14.7	3.35	7.0	0.01
D00007516	0.58	33.7	6.1	12	27.4	1.63	3.7	0.01
D00007517	0.22	25.4	17.6	63	30.2	4.41	9.3	0.02
D00007518	1.77	58.3	15.8	25	62.7	3.14	4.7	0.01
D00007519	0.30	31.2	17.5	50	54.6	4.19	6.7	<0.01
D00007520	0.61	23.1	15.6	61	41.5	1.99	3.7	<0.01
D00007521	0.25	39.5	15.3	27	21.1	2.96	4.8	<0.01
D00007522	0.14	39.0	12.7	64	19.5	3.16	6.6	<0.01
D00007523	0.11	36.8	21.4	84	20.5	3.22	6.6	<0.01
D00007524	0.08	32.0	11.9	67	16.8	2.51	5.3	<0.01
D00007525	0.09	38.2	11.8	67	20.3	3.02	6.7	<0.01
D00007526	0.08	36.6	14.1	89	25.0	2.89	6.2	<0.01
D00007527	0.09	46.7	20.8	104	33.8	4.08	8.1	<0.01
D00007528	0.12	57.9	8.3	21	18.5	2.83	5.5	<0.01
D00007529	0.20	77.1	14.4	62	33.8	2.83	7.1	0.02
D00007530	0.11	47.0	12.7	48	18.2	3.26	6.5	<0.01
D00007531	0.13	41.9	8.0	27	11.7	2.58	5.7	0.02
D00007532	0.13	44.1	7.9	25	13.3	2.56	6.1	<0.01
D00007533	0.18	60.4	9.1	33	18.1	3.23	7.5	0.06
D00007534	0.27	40.2	8.5	22	11.3	2.85	6.4	0.01
D00007535	0.18	34.7	6.7	16	10.4	2.06	4.5	0.01
D00007536	0.11	34.6	15.6	54	21.6	3.84	7.2	<0.01
D00007537	0.38	30.0	18.0	69	46.1	4.26	8.8	<0.01
D00007538	0.56	72.9	136	53	279	11.7	11.7	<0.01
D00007539	0.13	38.4	6.2	24	12.0	2.15	4.4	0.02
D00007540	0.13	41.8	6.3	24	13.1	2.25	4.5	0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007541	0.07	30.7	10.3	52	19.4	3.07	9.0	0.01
D00007542	0.14	38.8	13.3	27	13.7	3.41	7.2	<0.01
D00007543	0.21	40.0	11.3	45	16.6	2.99	5.5	<0.01
D00007544	0.18	60.2	11.8	30	18.5	3.31	6.9	0.01
D00007545	0.11	44.2	9.8	22	12.9	3.17	5.9	<0.01
D00007546	0.12	65.2	9.7	29	16.7	3.00	6.2	<0.01
D00007547	0.12	60.7	11.0	29	15.0	3.03	6.8	0.01
D00007548	0.06	10.1	1.5	1	5.4	0.69	2.0	<0.01
D00007549	0.16	59.9	25.9	123	36.3	5.37	8.7	<0.01
D00007550	0.19	54.5	10.2	28	13.1	2.80	5.4	<0.01
D00007551	0.24	50.7	11.3	27	16.1	2.91	5.9	<0.01
D00007552	0.19	42.7	18.9	67	22.7	4.31	7.2	<0.01
D00007553	0.18	53.5	13.9	36	15.5	3.49	6.0	<0.01
D00007554	0.29	39.7	10.5	31	17.7	2.95	5.6	0.02
D00007555	0.21	44.3	12.8	35	17.2	3.94	7.5	<0.01
D00007556	0.19	70.2	10.7	32	14.6	3.28	5.4	<0.01
D00007557	0.15	61.8	9.7	37	13.3	2.80	5.3	0.01
D00007558	0.10	66.0	8.3	32	10.0	2.69	4.8	<0.01
D00007559	0.13	57.2	32.0	106	31.9	8.69	16.9	<0.01
D00007560	<0.01	1.14	0.1	<1	0.9	0.02	<0.1	<0.01
D00007561	0.10	84.2	26.9	53	17.1	6.96	8.1	0.01
D00007562	0.12	58.7	24.0	80	20.9	6.62	9.8	<0.01
D00007563	0.20	60.4	25.0	70	24.8	7.15	10.8	0.02
D00007564	0.14	90.5	16.0	50	15.9	5.55	8.7	0.03
D00007565	0.42	122	22.0	46	43.1	6.96	8.3	0.07
D00007566	0.19	45.3	19.4	58	25.9	5.92	8.9	0.02
D00007567	0.38	80.0	17.6	54	46.0	4.93	7.4	<0.01
D00007568	0.25	34.0	7.9	24	24.7	3.01	6.3	<0.01
D00007569	1.48	42.6	26.6	43	72.4	3.57	6.5	<0.01
D00007570	1.98	43.9	28.7	91	91.0	7.71	10.9	<0.01
D00007571	2.41	86.9	26.1	79	119	6.86	10.6	0.02
D00007572	2.08	55.2	30.5	75	120	6.70	10.6	0.02
D00007573	0.23	92.6	20.1	46	98.7	6.11	8.8	0.01
D00007574	1.37	41.1	26.2	43	78.1	6.50	10.3	<0.01
D00007575	0.90	117	20.2	40	86.2	5.74	8.3	0.03
D00007576	1.23	56.1	12.2	32	153	4.30	6.0	0.04

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007522	0.15	38.7	12.3	62	18.3	3.05	6.2	<0.01
*Rep D00007558	0.10	69.8	9.1	33	10.1	2.87	4.8	<0.01
*Std OREAS920	0.06	69.2	14.2	41	116	3.45	7.4	<0.01
*Std OREAS151B	0.58	16.3	11.2	28	1980	3.56	7.6	0.02
*Std OREAS902	0.03	30.7	984	21	3170	3.13	1.5	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007501	0.81	29.2	1.46	526	1.06	0.02	25.6	1260
D00007502	0.37	18.0	0.71	315	0.89	0.02	14.8	1020
D00007503	0.48	31.1	1.08	431	1.17	0.01	26.1	1130
D00007504	0.47	23.4	1.02	440	1.08	0.01	23.9	1110
D00007505	0.44	26.0	0.97	393	1.02	0.01	24.5	1090
D00007506	0.30	22.3	0.71	298	0.94	0.01	19.7	820
D00007507	0.32	22.5	0.70	320	0.99	0.01	21.1	1000
D00007508	0.30	25.5	0.76	246	1.01	0.02	21.6	860
D00007509	0.12	22.2	0.42	430	1.82	0.01	17.0	870
D00007510	0.13	14.8	0.34	289	1.22	0.02	13.2	620
D00007511	0.24	36.2	0.65	571	1.61	0.01	39.0	1520
D00007512	0.21	31.7	0.59	277	2.21	0.01	30.6	1210
D00007513	0.06	20.1	0.27	246	1.36	0.01	12.5	690
D00007514	0.43	41.8	0.74	375	1.25	0.01	19.6	1090
D00007515	0.84	38.2	0.81	480	1.31	0.01	14.0	1030
D00007516	0.07	19.2	0.23	171	1.38	0.02	13.9	880
D00007517	0.12	16.0	1.77	769	0.96	0.01	41.6	1200
D00007518	0.13	30.3	0.55	564	2.61	0.01	51.9	1410
D00007519	0.28	15.2	1.35	521	1.52	0.01	44.2	1420
D00007520	0.11	14.0	0.48	250	2.28	0.02	59.3	3420
D00007521	0.46	17.6	0.81	430	1.33	0.01	18.6	1050
D00007522	0.67	22.8	1.11	371	0.70	0.02	31.6	960
D00007523	0.23	20.1	1.29	902	1.16	0.01	42.0	820
D00007524	0.21	19.3	1.01	307	0.75	0.02	32.8	870
D00007525	0.27	22.0	1.14	410	0.85	0.02	35.4	750
D00007526	0.19	20.9	1.32	285	0.69	0.02	45.5	960
D00007527	0.71	29.5	1.89	486	0.70	0.01	54.4	1150
D00007528	0.10	33.0	0.64	287	0.86	0.01	21.2	870
D00007529	0.22	43.0	1.21	254	0.51	0.02	33.4	920
D00007530	0.45	24.4	1.13	440	0.72	0.01	27.3	1080
D00007531	0.36	23.9	0.73	252	1.11	0.02	18.1	880
D00007532	0.28	26.8	0.59	273	1.34	0.02	16.1	590
D00007533	0.28	33.7	0.59	384	2.01	0.02	20.6	1140
D00007534	0.36	21.8	0.56	261	1.45	0.01	14.2	600
D00007535	0.17	18.9	0.32	222	1.55	0.01	12.5	480
D00007536	0.28	20.8	1.20	424	1.25	0.02	29.0	1280
D00007537	0.34	17.3	1.51	587	1.79	0.02	46.3	2140
D00007538	0.68	37.3	2.53	3940	5.14	0.01	172	2660
D00007539	0.14	22.4	0.48	187	1.31	0.01	15.8	720
D00007540	0.16	24.4	0.47	192	1.44	0.02	17.0	750

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007541	0.19	13.8	1.07	346	0.91	0.01	25.1	480
D00007542	0.67	21.0	0.86	460	1.03	0.02	19.6	1050
D00007543	0.53	21.1	0.84	351	0.96	0.01	23.4	1100
D00007544	0.49	32.4	0.79	460	1.41	0.02	22.4	1010
D00007545	0.59	27.0	0.83	323	1.01	0.02	15.6	1110
D00007546	0.39	32.4	0.67	396	1.57	0.01	19.1	870
D00007547	0.48	34.8	0.89	403	1.02	0.01	18.5	940
D00007548	0.04	6.5	0.06	32	0.19	0.04	1.8	530
D00007549	1.18	40.0	2.48	963	1.02	0.02	41.7	1060
D00007550	0.49	30.9	0.81	351	1.06	0.02	17.9	940
D00007551	0.48	29.2	0.80	408	1.21	0.01	21.0	1060
D00007552	1.28	27.5	1.64	645	0.94	0.02	27.6	1410
D00007553	0.67	35.6	1.01	461	1.26	0.02	18.7	1160
D00007554	0.22	22.7	0.67	344	1.49	0.02	24.3	1100
D00007555	0.62	21.3	0.96	414	1.13	0.01	22.2	930
D00007556	0.45	37.2	0.82	397	1.03	0.02	22.8	1170
D00007557	0.24	28.4	0.82	305	0.91	0.01	23.9	940
D00007558	0.26	32.2	0.63	277	1.16	0.01	19.6	680
D00007559	0.99	28.0	2.58	1480	1.02	0.01	50.9	2510
D00007560	<0.01	0.6	<0.01	<2	<0.05	<0.01	<0.5	<50
D00007561	0.92	42.0	1.28	1100	2.55	0.01	31.6	1730
D00007562	1.39	33.5	2.13	1090	1.27	0.02	38.5	1810
D00007563	1.30	44.2	2.35	1250	1.50	0.02	34.1	1470
D00007564	0.64	78.4	1.07	766	2.47	0.02	23.8	980
D00007565	0.33	57.1	0.80	1650	4.93	0.02	33.9	2440
D00007566	0.71	25.6	1.61	845	2.54	0.01	29.2	1440
D00007567	0.35	52.7	1.28	530	2.30	0.01	44.0	1450
D00007568	0.18	13.7	0.53	294	2.53	0.01	19.2	570
D00007569	0.25	27.4	1.35	427	1.47	0.01	35.7	1540
D00007570	0.54	30.4	2.25	828	2.99	0.01	67.7	1650
D00007571	0.46	60.4	2.05	1040	2.35	0.01	66.9	1580
D00007572	0.61	39.2	2.31	1340	1.80	0.02	65.3	1190
D00007573	0.87	52.6	1.45	1670	3.17	0.02	25.0	740
D00007574	1.02	26.1	1.81	1250	1.29	0.02	38.6	1790
D00007575	0.71	69.7	1.16	1250	3.26	0.02	24.8	830
D00007576	0.39	99.7	0.87	522	2.20	0.02	37.4	1630

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007522	0.61	22.5	1.05	365	0.66	0.02	29.9	960
*Rep D00007558	0.27	33.7	0.62	272	1.23	0.01	19.7	690
*Std OREAS920	0.50	39.4	1.19	559	0.40	0.03	39.0	730
*Std OREAS151B	0.42	7.8	1.48	297	54.7	0.18	16.4	550
*Std OREAS902	0.26	15.3	2.17	479	11.4	0.02	176	700
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007501	12.7	91.2	0.26	6.2	0.8	14.2	5.9	0.22
D00007502	10.1	36.6	0.17	2.8	0.5	11.7	2.1	0.13
D00007503	22.6	51.4	0.32	4.1	0.7	15.2	8.2	0.18
D00007504	9.7	46.5	0.28	3.5	0.6	14.7	6.3	0.17
D00007505	9.7	44.5	0.29	3.9	0.6	15.4	8.9	0.17
D00007506	9.8	32.9	0.26	2.7	0.6	12.4	5.9	0.12
D00007507	9.2	32.3	0.28	3.1	0.5	14.4	9.0	0.12
D00007508	10.3	32.1	0.26	3.0	0.5	12.0	6.4	0.12
D00007509	12.9	20.3	0.49	1.2	0.8	9.1	0.9	0.09
D00007510	9.4	18.6	0.27	0.9	0.7	8.5	0.7	0.09
D00007511	44.2	21.4	0.20	2.7	<0.3	18.7	12.9	0.08
D00007512	27.0	19.3	0.37	2.0	0.3	22.4	7.0	0.08
D00007513	33.3	10.3	0.48	1.8	0.6	9.8	4.1	0.07
D00007514	43.9	38.8	0.39	3.8	0.5	15.7	7.6	0.15
D00007515	24.8	62.8	0.16	3.6	0.6	13.2	9.3	0.20
D00007516	95.6	9.0	0.42	0.8	0.3	14.1	0.8	0.04
D00007517	10.6	16.3	0.18	3.7	0.6	23.5	3.3	0.14
D00007518	66.1	14.7	0.61	2.5	0.4	21.0	5.3	0.05
D00007519	11.8	27.8	0.20	3.1	0.5	24.3	3.3	0.16
D00007520	7.8	13.0	0.24	1.8	0.5	24.6	1.9	0.12
D00007521	29.8	44.6	0.19	3.0	0.5	14.5	7.6	0.14
D00007522	7.2	50.4	0.15	3.8	0.5	13.6	6.1	0.18
D00007523	8.8	27.2	0.21	3.2	0.5	12.4	3.4	0.11
D00007524	6.6	24.1	0.16	2.5	0.4	13.1	3.3	0.10
D00007525	7.8	28.1	0.19	2.6	0.5	12.4	2.3	0.12
D00007526	5.3	20.6	0.17	2.5	0.3	13.8	2.8	0.11
D00007527	8.2	60.7	0.13	4.5	0.4	17.4	7.3	0.21
D00007528	8.5	11.9	0.26	2.6	<0.3	13.8	10.5	0.05
D00007529	11.4	23.5	0.26	4.2	0.4	13.5	14.0	0.11
D00007530	9.1	46.8	0.15	3.1	0.5	17.0	7.5	0.16
D00007531	8.8	35.1	0.26	2.7	0.6	11.9	6.9	0.11
D00007532	12.1	30.2	0.32	2.8	0.6	7.9	4.3	0.11
D00007533	15.8	39.5	0.52	3.7	0.8	14.2	2.6	0.09
D00007534	10.3	41.3	0.35	3.0	0.7	11.9	5.7	0.14
D00007535	13.6	22.7	0.38	1.7	0.6	8.4	4.1	0.07
D00007536	8.1	29.3	0.31	3.7	0.5	15.5	5.6	0.14
D00007537	11.3	31.4	0.27	5.2	0.7	26.0	5.0	0.16
D00007538	12.2	57.1	0.60	6.9	0.5	35.3	4.3	0.14
D00007539	16.5	18.8	0.39	2.2	0.5	15.1	4.5	0.07
D00007540	17.1	20.4	0.41	2.4	0.5	15.0	6.4	0.07

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007541	13.1	20.2	0.22	2.5	0.8	8.5	7.2	0.28
D00007542	10.4	68.4	0.22	5.5	0.8	15.7	7.2	0.20
D00007543	12.4	46.0	0.23	3.6	0.5	11.2	7.4	0.17
D00007544	18.2	48.0	0.32	3.4	0.6	12.1	10.4	0.15
D00007545	8.4	52.3	0.21	2.9	0.5	12.4	9.5	0.15
D00007546	14.1	37.4	0.27	3.8	0.6	11.5	6.3	0.08
D00007547	12.4	45.3	0.22	3.2	0.6	12.1	7.5	0.11
D00007548	2.3	3.0	<0.05	0.4	<0.3	7.0	0.2	0.03
D00007549	15.5	116	0.12	7.8	0.6	20.0	7.5	0.25
D00007550	9.6	44.3	0.24	3.3	0.5	11.6	10.7	0.15
D00007551	11.0	49.6	0.34	3.5	0.6	13.6	11.0	0.14
D00007552	8.0	121	0.23	5.4	0.5	14.7	7.5	0.26
D00007553	8.5	58.1	0.29	3.4	0.6	17.5	9.7	0.22
D00007554	11.1	23.7	0.55	3.4	0.6	16.2	5.5	0.10
D00007555	18.1	67.0	0.39	5.9	0.7	11.4	6.3	0.21
D00007556	22.4	47.7	0.36	4.9	0.6	16.2	13.3	0.14
D00007557	11.2	25.9	0.37	4.0	0.6	16.3	10.9	0.10
D00007558	11.7	32.8	0.30	4.0	0.5	13.4	10.9	0.09
D00007559	12.8	122	0.19	22.9	0.6	18.9	5.3	0.32
D00007560	0.4	<0.2	<0.05	0.1	<0.3	0.6	0.3	<0.01
D00007561	19.8	61.1	0.08	14.7	0.7	23.0	17.4	0.11
D00007562	17.4	173	0.07	8.5	0.7	33.4	11.5	0.32
D00007563	33.0	195	0.11	9.6	0.7	35.2	10.6	0.34
D00007564	37.2	115	0.16	9.1	0.8	36.0	13.6	0.09
D00007565	81.8	64.8	0.37	7.7	0.9	35.5	5.3	0.07
D00007566	37.4	91.9	0.18	9.8	0.7	24.2	8.6	0.23
D00007567	33.7	42.2	0.25	6.7	0.6	17.6	11.3	0.14
D00007568	19.7	22.0	0.21	2.1	0.5	14.1	3.7	0.11
D00007569	41.9	31.7	0.08	4.5	<0.3	22.4	5.7	0.13
D00007570	59.2	48.6	0.16	8.5	0.4	25.8	6.8	0.18
D00007571	117	43.3	0.23	8.1	0.5	25.5	11.5	0.15
D00007572	73.3	61.8	0.13	6.9	0.4	26.5	6.4	0.21
D00007573	47.6	113	0.12	8.6	1.0	29.0	16.1	0.26
D00007574	55.8	72.8	0.13	6.5	0.4	27.5	4.7	0.26
D00007575	55.7	81.1	0.17	8.4	0.7	33.1	12.6	0.17
D00007576	49.4	41.3	0.21	6.9	0.4	37.2	4.0	0.11

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007522	7.0	50.1	0.14	3.7	0.5	12.3	6.0	0.17
*Rep D00007558	12.8	33.6	0.28	4.2	0.6	13.9	11.0	0.10
*Std OREAS920	18.0	26.7	0.56	3.1	1.3	17.9	16.7	0.15
*Std OREAS151B	41.5	20.9	0.53	10.0	1.1	39.4	2.5	0.08
*Std OREAS902	10.2	9.0	0.85	3.0	<0.3	21.8	5.0	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007501	0.64	1.25	92	0.3	11.1	85
D00007502	0.30	1.42	60	0.3	7.87	54
D00007503	0.38	1.55	57	0.3	11.7	84
D00007504	0.37	1.09	57	0.3	9.39	72
D00007505	0.34	1.28	54	0.3	10.5	72
D00007506	0.26	1.34	40	0.2	9.67	62
D00007507	0.25	1.39	42	0.2	10.2	64
D00007508	0.26	1.43	42	0.2	9.84	61
D00007509	0.16	1.71	49	0.4	8.28	56
D00007510	0.12	1.14	32	0.3	5.86	35
D00007511	0.29	1.65	36	0.3	14.9	536
D00007512	0.20	1.15	38	0.4	8.19	189
D00007513	0.12	0.77	43	0.4	5.05	66
D00007514	0.40	1.57	58	0.2	18.2	197
D00007515	0.48	1.14	51	0.1	12.0	111
D00007516	0.13	1.20	31	0.3	7.10	204
D00007517	0.23	0.93	67	0.2	7.33	163
D00007518	0.21	2.31	44	0.3	12.8	1240
D00007519	0.30	1.20	63	0.2	6.53	138
D00007520	0.14	2.10	68	1.1	6.72	150
D00007521	0.34	2.38	52	0.3	9.02	75
D00007522	0.33	1.87	54	0.2	10.3	62
D00007523	0.22	1.04	49	0.3	8.11	65
D00007524	0.19	0.89	41	0.2	8.77	49
D00007525	0.21	1.33	46	0.6	11.1	57
D00007526	0.18	0.96	41	0.2	6.34	59
D00007527	0.40	0.95	65	0.2	10.5	79
D00007528	0.11	1.22	24	0.3	8.64	65
D00007529	0.17	1.84	47	0.3	13.3	69
D00007530	0.33	1.43	45	0.4	8.98	72
D00007531	0.26	1.82	43	0.2	10.5	55
D00007532	0.23	2.36	47	0.3	11.5	57
D00007533	0.29	4.39	58	0.4	21.1	65
D00007534	0.31	2.12	53	0.3	9.08	51
D00007535	0.18	1.69	30	0.4	6.96	37
D00007536	0.27	1.03	65	0.3	7.98	79
D00007537	0.37	1.34	127	0.4	8.33	237
D00007538	0.91	1.74	165	0.2	31.9	137
D00007539	0.17	1.46	36	0.3	7.34	50
D00007540	0.18	1.63	35	0.3	8.21	52

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007541	0.12	0.63	63	0.4	3.99	53
D00007542	0.49	1.78	65	0.2	11.4	58
D00007543	0.33	1.50	54	0.2	9.26	56
D00007544	0.38	2.65	52	0.3	13.9	72
D00007545	0.37	1.58	53	0.2	11.1	62
D00007546	0.29	2.81	48	0.3	12.8	61
D00007547	0.34	1.78	44	0.2	11.6	63
D00007548	0.03	0.37	18	<0.1	2.43	10
D00007549	0.67	1.64	101	0.3	13.2	85
D00007550	0.29	2.15	46	0.2	12.8	58
D00007551	0.35	2.13	51	0.3	13.0	67
D00007552	0.60	1.77	89	0.3	14.7	77
D00007553	0.39	1.23	59	0.6	9.41	70
D00007554	0.21	1.33	49	0.4	9.06	67
D00007555	0.39	1.56	75	0.3	10.3	62
D00007556	0.32	2.20	52	0.2	12.9	64
D00007557	0.19	1.46	45	0.2	10.1	58
D00007558	0.27	2.48	36	0.1	12.9	41
D00007559	0.69	0.76	248	0.2	15.0	116
D00007560	<0.02	0.11	1	<0.1	0.69	1
D00007561	0.59	10.2	102	0.1	40.8	77
D00007562	0.84	3.16	110	0.2	24.6	104
D00007563	1.07	5.44	124	0.2	28.3	132
D00007564	0.70	5.96	77	0.1	40.9	76
D00007565	0.47	12.9	93	0.3	40.6	149
D00007566	0.62	4.14	115	0.2	13.7	133
D00007567	0.37	7.03	73	0.1	25.4	231
D00007568	0.16	2.26	52	0.1	7.87	135
D00007569	0.26	1.75	53	<0.1	11.1	544
D00007570	0.46	2.58	124	0.1	15.6	972
D00007571	0.34	2.80	89	0.1	26.2	1890
D00007572	0.46	2.71	95	<0.1	18.7	832
D00007573	0.73	3.85	85	0.1	24.0	143
D00007574	0.45	1.00	112	<0.1	14.8	386
D00007575	0.65	5.14	79	<0.1	30.4	224
D00007576	0.37	6.55	60	<0.1	69.4	662

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Final : VC172765 Order: PO# BMC17-01008

Report File No.: 0000024652

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007522	0.32	1.84	55	0.2	10.0	61
*Rep D00007558	0.28	2.65	39	0.2	14.0	42
*Std OREAS920	0.19	2.43	25	0.6	19.8	116
*Std OREAS151B	0.13	0.67	141	0.6	11.3	258
*Std OREAS902	0.23	2.37	9	2.5	7.50	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172766
[Report File No.: 0000024763]

Date: September 19, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01008
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007577	0.705	<5	0.20	2.72	19	290	0.43	0.66
D00007578	0.500	<5	0.03	2.42	12	125	0.24	0.36
D00007579	0.475	<5	0.03	2.49	13	139	0.18	0.72
D00007580	0.440	<5	0.02	2.64	13	130	0.18	0.69
D00007581	0.305	<5	0.14	1.60	31	106	0.44	0.18
D00007582	0.340	<5	0.06	3.12	58	132	0.50	0.27
D00007583	0.350	<5	0.06	2.29	54	75	1.66	0.18
D00007584	0.365	<5	0.02	3.39	26	132	0.13	0.45
D00007585	0.420	<5	0.06	3.01	101	150	0.30	0.67
D00007586	0.455	<5	0.04	2.30	52	97	0.77	0.12
D00007587	0.245	<5	0.17	2.34	298	139	1.35	0.26
D00007588	0.420	<5	0.04	2.15	35	92	0.43	0.21
D00007589	0.315	<5	0.02	1.51	21	134	0.34	0.22
D00007590	0.195	<5	0.15	1.25	19	115	0.15	0.59
D00007591	0.640	<5	0.27	2.31	22	155	0.35	0.80
D00007592	0.230	<5	0.30	2.86	9	341	0.72	0.70
D00007593	0.500	<5	0.09	2.20	34	163	0.50	0.48
D00007594	0.455	<5	0.14	2.06	7	344	0.35	0.64
D00007595	0.275	<5	0.21	1.69	14	357	0.39	0.89
D00007596	0.365	<5	0.23	3.00	30	342	0.70	0.85
D00007597	0.405	<5	0.53	2.95	16	370	0.26	0.75
D00007598	0.335	<5	0.22	2.30	13	136	0.28	0.37
D00007599	0.385	<5	0.29	1.86	19	448	0.14	0.99
D00007600	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00007601	0.335	<5	0.28	1.79	8	113	0.72	0.29
D00007602	0.380	<5	0.08	1.35	7	106	0.28	0.14
D00007603	0.550	<5	0.02	1.26	8	111	0.25	0.15
D00007604	0.435	<5	0.02	2.36	16	155	0.13	0.52
D00007605	0.385	<5	0.38	1.69	11	355	0.66	0.37
D00007606	0.320	<5	0.21	1.60	11	119	0.37	0.33
D00007607	0.480	<5	0.21	2.10	20	155	0.33	0.51
D00007608	0.325	7	0.36	1.66	11	165	0.21	0.60
D00007609	0.220	<5	0.25	3.13	15	686	0.17	1.06
D00007610	0.175	<5	0.24	2.11	10	398	0.20	0.70
D00007611	0.555	<5	0.51	1.91	12	329	0.54	0.66
D00007612	0.315	<5	0.33	2.22	9	554	0.58	0.63
D00007613	0.265	<5	0.22	1.79	17	483	0.45	0.82
D00007614	0.330	<5	0.09	1.67	6	157	0.28	0.57
D00007615	0.255	<5	0.14	0.72	4	128	0.33	0.15
D00007616	0.300	<5	0.03	1.32	13	103	0.21	0.20

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007617	0.300	<5	0.19	2.16	19	153	0.37	0.36
D00007618	0.255	<5	0.04	2.73	7	170	0.15	0.46
D00007619	0.185	<5	0.36	2.34	17	357	0.30	0.89
D00007620	0.300	<5	0.35	1.90	12	432	0.58	0.45
D00007621	0.280	<5	0.12	1.19	5	136	0.20	0.32
D00007622	0.280	<5	0.23	2.22	13	177	0.34	0.40
D00007623	0.370	<5	0.12	2.55	10	164	0.33	0.37
D00007624	0.270	<5	0.27	1.68	9	153	0.19	0.33
D00007625	0.315	<5	0.12	1.23	6	117	0.38	0.18
D00007626	0.400	<5	0.23	2.50	10	153	0.39	0.33
D00007627	0.255	<5	0.18	0.70	2	44	0.10	0.16
D00007628	0.335	<5	0.27	1.71	8	121	0.63	0.34
D00007629	0.385	<5	0.19	2.82	35	264	0.19	0.85
D00007630	0.340	<5	0.10	2.38	13	157	0.22	0.61
D00007631	0.460	<5	0.06	1.13	9	79	0.19	0.10
D00007632	0.345	<5	0.06	1.08	13	219	0.20	0.28
D00007633	0.560	<5	0.06	2.30	12	120	0.27	0.40
D00007634	0.370	<5	0.05	2.09	9	79	0.24	0.27
D00007635	0.320	<5	0.95	2.23	23	310	0.78	0.88
D00007636	0.290	<5	0.27	1.17	6	129	0.30	0.30
D00007637	0.370	<5	0.20	1.41	10	161	0.56	0.33
D00007638	0.480	<5	0.08	2.22	11	253	0.26	0.29
D00007639	0.105	<5	0.13	1.12	8	147	0.22	0.28
D00007640	0.550	<5	0.05	1.96	15	133	0.25	0.24
D00007641	0.360	<5	0.11	0.69	5	401	0.19	0.19
D00007642	0.540	<5	0.13	1.52	20	325	0.27	0.73
D00007643	0.290	<5	0.09	1.14	6	152	0.38	0.33
D00007644	0.340	<5	0.07	1.35	7	283	0.39	0.20
D00007645	0.455	<5	0.14	2.24	11	397	0.24	0.39
D00007646	0.180	<5	0.11	0.90	4	81	0.19	0.12
D00007647	0.230	<5	0.67	1.62	12	243	1.21	0.50
D00007648	0.390	<5	0.07	1.06	67	90	0.27	0.22
D00007649	0.280	<5	0.06	1.58	13	153	0.22	0.29
D00007650	0.255	<5	0.06	1.45	8	103	0.36	0.19
D00007651	0.345	<5	0.17	0.90	55	365	0.32	0.51
D00007652	0.285	<5	0.03	1.12	8	92	0.24	0.18
*Std OREAS151B		65						
*Std OXK119		3620						
*Std AMIS0282		195						
*Blk BLANK		<5						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Rep D00007582		0.06	2.95	57	138	0.51	0.27
*Rep D00007620		0.34	1.90	12	424	0.57	0.46
*Rep D00007635		0.92	2.19	21	300	0.73	0.86
*Std OREAS920		0.09	2.45	5	78	0.59	0.33
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007577	11						
*Rep D00007611	<5						
*Rep D00007640	<5						
*Std OREAS920		0.08	2.31	6	74	0.56	0.30
*Std OREAS920		0.08	2.52	5	79	0.75	0.33

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007577	3.31	66.8	20.5	159	113	4.54	9.3	<0.01
D00007578	0.24	71.0	12.0	49	34.1	4.26	8.6	<0.01
D00007579	0.18	49.4	15.5	80	23.0	4.71	8.7	<0.01
D00007580	0.18	47.4	15.0	74	22.9	4.49	8.3	<0.01
D00007581	0.39	58.3	8.5	36	19.1	3.52	6.9	0.02
D00007582	0.22	43.1	19.9	39	19.6	7.34	10.5	<0.01
D00007583	0.22	77.0	16.5	70	16.6	5.24	8.9	0.02
D00007584	0.07	29.1	21.0	48	21.7	6.50	9.0	<0.01
D00007585	0.06	59.3	20.1	68	20.3	5.97	9.3	0.01
D00007586	0.19	72.2	11.2	43	14.6	4.66	7.9	<0.01
D00007587	0.16	84.5	10.5	48	29.4	5.91	8.9	0.01
D00007588	0.26	37.8	9.7	45	17.7	4.02	8.5	<0.01
D00007589	0.11	44.3	4.6	25	9.9	2.56	7.4	<0.01
D00007590	0.65	21.1	6.3	28	25.0	1.91	4.2	0.02
D00007591	0.86	50.1	11.5	52	74.9	4.56	7.6	0.01
D00007592	0.71	88.6	19.1	54	55.6	5.86	10.2	0.04
D00007593	0.42	81.6	18.2	43	48.3	7.28	7.7	0.02
D00007594	0.45	84.3	11.8	33	26.9	4.36	7.7	0.03
D00007595	0.83	90.8	14.9	32	42.9	4.94	6.6	0.02
D00007596	1.63	51.9	21.3	73	58.3	6.54	9.3	0.01
D00007597	1.96	41.6	21.3	45	90.1	6.98	9.7	0.03
D00007598	0.50	99.6	18.9	51	73.1	5.46	7.4	0.02
D00007599	0.46	40.5	15.2	40	59.3	4.23	6.6	0.03
D00007600	<0.01	1.25	<0.1	<1	0.6	0.02	<0.1	<0.01
D00007601	0.52	40.5	11.1	28	27.6	4.26	7.2	0.03
D00007602	0.12	117	6.5	23	14.7	2.48	5.3	<0.01
D00007603	0.10	93.3	5.9	25	13.8	2.56	5.3	<0.01
D00007604	0.21	71.9	12.7	38	17.0	4.58	9.7	<0.01
D00007605	0.55	76.5	12.7	32	43.4	4.10	6.1	0.04
D00007606	1.54	41.8	10.1	32	34.6	3.61	6.1	0.02
D00007607	0.79	65.5	13.8	41	55.0	5.53	7.3	<0.01
D00007608	1.87	50.5	9.7	33	70.3	3.57	5.7	0.01
D00007609	1.17	28.4	22.0	72	60.2	6.43	9.7	0.02
D00007610	0.52	36.4	12.5	60	64.1	4.20	6.6	0.01
D00007611	1.10	94.6	17.6	36	71.1	4.80	6.8	0.02
D00007612	0.48	45.7	15.7	39	45.7	4.73	7.1	<0.01
D00007613	0.58	102	12.9	48	25.4	3.86	6.7	0.04
D00007614	0.34	257	10.7	23	22.3	3.71	7.4	0.02
D00007615	0.15	43.7	3.0	11	9.0	1.92	5.1	0.04
D00007616	0.24	102	5.7	18	11.0	2.87	6.8	0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007617	0.19	305	14.3	39	23.3	4.55	9.4	0.02
D00007618	0.17	73.5	16.3	27	14.6	5.69	9.5	0.02
D00007619	0.44	48.3	13.0	27	16.4	4.82	7.3	0.03
D00007620	0.74	61.2	11.4	35	34.6	4.02	6.0	0.01
D00007621	0.30	15.3	5.5	18	14.4	2.42	4.4	<0.01
D00007622	0.31	26.4	10.9	58	51.3	4.38	7.9	0.01
D00007623	0.26	29.3	14.0	78	52.6	5.31	8.3	<0.01
D00007624	0.22	23.3	6.6	36	16.9	3.26	7.5	0.02
D00007625	0.42	31.8	5.9	25	17.3	2.62	6.0	0.01
D00007626	0.22	33.4	11.7	53	39.2	4.58	8.0	<0.01
D00007627	0.12	16.7	2.3	7	7.0	1.10	3.0	<0.01
D00007628	0.52	49.8	7.9	23	31.8	3.74	6.5	0.01
D00007629	0.51	53.5	19.7	55	25.0	5.45	7.8	0.03
D00007630	0.60	227	16.7	33	19.2	5.32	10.2	0.04
D00007631	0.10	61.1	6.1	22	14.3	2.32	4.9	0.02
D00007632	0.32	197	8.9	20	14.1	2.05	4.9	0.02
D00007633	0.15	192	15.7	36	15.8	4.31	9.5	0.05
D00007634	0.25	43.1	12.7	26	11.0	4.04	8.4	0.02
D00007635	2.02	83.9	18.2	52	51.2	4.44	7.6	0.05
D00007636	1.42	36.4	6.1	19	13.4	2.14	6.0	0.02
D00007637	0.78	37.6	8.2	24	24.6	2.87	5.8	<0.01
D00007638	0.55	37.3	15.2	35	41.7	3.93	6.5	0.01
D00007639	0.76	33.1	11.3	23	13.1	2.56	4.7	0.01
D00007640	0.43	38.5	11.8	37	29.6	3.64	6.5	<0.01
D00007641	0.78	42.6	9.4	10	12.5	1.45	4.0	0.02
D00007642	0.87	48.8	15.1	40	33.3	3.17	5.3	<0.01
D00007643	0.45	36.2	5.7	17	14.3	2.41	6.0	0.01
D00007644	0.31	41.5	7.4	18	15.9	3.15	7.0	<0.01
D00007645	0.45	57.6	18.5	77	67.1	4.27	6.7	<0.01
D00007646	0.52	19.1	5.5	12	9.6	1.89	4.7	0.02
D00007647	1.09	74.9	10.2	21	37.2	3.48	6.9	0.02
D00007648	0.28	118	7.6	21	14.8	2.85	5.5	0.02
D00007649	0.17	66.7	11.9	29	15.9	3.74	6.7	0.03
D00007650	0.27	64.8	6.7	23	14.1	2.57	5.9	0.04
D00007651	0.22	33.9	19.7	19	15.5	5.24	2.8	0.02
D00007652	0.12	67.6	5.1	17	11.0	2.27	4.5	0.04

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007582	0.24	43.0	20.0	40	20.4	7.53	10.7	0.01
*Rep D00007620	0.76	61.9	11.4	34	35.7	4.04	6.2	<0.01
*Rep D00007635	1.82	82.0	17.6	50	51.3	4.36	7.7	0.03
*Std OREAS920	0.05	75.6	13.4	43	112	3.49	6.9	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	2	<0.5	<0.01	<0.1	<0.01
*Std OREAS920	0.06	70.7	13.9	45	105	3.52	6.7	<0.01
*Std OREAS920	0.06	73.0	14.5	44	111	3.56	6.9	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007577	0.46	34.5	1.90	467	4.24	0.02	83.6	1990
D00007578	0.60	37.6	1.42	457	2.00	0.02	31.1	1160
D00007579	0.76	22.8	1.69	551	1.39	0.01	30.4	1270
D00007580	0.67	21.2	1.55	517	1.48	0.02	30.2	1250
D00007581	0.24	26.4	0.76	325	2.49	0.02	19.5	1100
D00007582	1.03	19.5	1.72	889	2.40	0.02	18.2	790
D00007583	0.43	30.3	1.31	841	1.69	0.02	29.3	1000
D00007584	1.54	12.6	2.45	786	0.85	0.02	23.0	930
D00007585	1.03	37.1	1.99	952	2.06	0.02	28.7	1200
D00007586	0.20	38.8	0.83	460	1.78	0.02	21.4	680
D00007587	0.18	56.5	0.76	753	3.46	0.02	22.8	2140
D00007588	0.21	18.5	0.97	391	1.63	0.02	18.1	850
D00007589	0.12	22.3	0.49	227	1.67	0.02	13.3	690
D00007590	0.15	14.7	0.54	579	1.24	0.04	19.3	1020
D00007591	0.39	35.2	1.34	460	5.99	0.01	37.9	2770
D00007592	0.92	60.6	1.82	955	2.49	0.02	27.4	1030
D00007593	0.54	44.4	1.33	839	3.77	0.02	26.4	1080
D00007594	0.65	39.2	1.13	635	1.27	0.02	17.6	1010
D00007595	0.53	59.3	1.09	682	2.46	0.02	26.1	1090
D00007596	0.92	29.8	2.12	858	2.56	0.02	45.8	1830
D00007597	0.68	18.5	2.06	1010	11.0	0.02	64.8	2780
D00007598	0.23	25.5	1.57	863	3.93	0.01	56.3	1180
D00007599	0.29	26.5	1.30	818	1.45	0.01	34.0	950
D00007600	<0.01	0.6	<0.01	<2	<0.05	0.01	<0.5	<50
D00007601	0.77	19.0	1.04	615	1.42	0.02	13.1	870
D00007602	0.13	48.7	0.41	421	1.89	0.02	19.5	510
D00007603	0.14	40.0	0.39	445	1.73	0.02	17.3	480
D00007604	0.91	31.0	1.29	753	2.31	0.02	15.1	920
D00007605	0.65	33.9	0.93	582	1.60	0.02	19.7	960
D00007606	0.24	16.4	1.06	517	1.33	0.01	24.9	780
D00007607	0.30	42.8	1.28	547	2.04	0.01	38.6	1610
D00007608	0.11	34.0	0.87	454	2.43	0.02	33.8	1710
D00007609	0.61	13.6	2.44	1140	3.39	0.02	65.6	1660
D00007610	0.22	22.8	1.42	518	1.45	0.01	46.3	940
D00007611	0.31	39.7	1.28	810	2.90	0.01	49.6	1670
D00007612	0.94	21.7	1.54	647	1.31	0.01	23.6	650
D00007613	0.74	55.9	0.98	659	1.77	0.02	27.4	840
D00007614	0.58	86.4	0.74	867	2.22	0.02	22.1	1140
D00007615	0.20	20.7	0.18	217	2.09	0.01	6.7	720
D00007616	0.24	47.4	0.45	341	1.90	0.01	12.1	970

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007617	0.70	76.9	1.25	841	2.17	0.02	26.1	660
D00007618	1.51	29.4	1.48	890	1.21	0.01	13.0	830
D00007619	1.29	26.4	1.47	776	1.57	0.02	10.7	1030
D00007620	0.55	34.4	1.18	578	1.20	0.02	18.5	930
D00007621	0.27	9.4	0.62	265	1.03	0.03	8.7	770
D00007622	0.11	16.6	1.17	633	2.99	0.02	40.0	1410
D00007623	0.17	17.7	1.74	634	2.54	0.02	48.3	1190
D00007624	0.20	12.4	0.76	517	1.67	0.02	11.9	1170
D00007625	0.10	16.5	0.50	563	1.98	0.01	13.0	850
D00007626	0.27	19.2	1.37	522	1.71	0.02	31.1	1150
D00007627	0.08	9.2	0.21	116	0.42	0.04	3.2	760
D00007628	0.48	26.4	1.09	391	1.31	0.02	16.3	940
D00007629	1.30	26.9	1.99	873	1.05	0.02	25.4	1370
D00007630	1.24	71.2	1.34	1070	1.54	0.02	17.6	1380
D00007631	0.13	29.1	0.38	260	1.44	0.01	17.2	450
D00007632	0.15	52.2	0.33	637	1.63	0.01	17.5	690
D00007633	0.88	66.9	1.24	656	1.78	0.01	21.0	880
D00007634	1.07	19.8	1.17	482	1.44	0.01	11.7	600
D00007635	0.86	42.7	1.48	758	1.48	0.01	30.3	880
D00007636	0.45	21.0	0.53	295	1.28	0.01	7.5	740
D00007637	0.17	22.5	0.76	440	1.77	0.01	14.3	1110
D00007638	0.27	19.7	1.22	532	2.88	0.01	27.5	910
D00007639	0.08	19.4	0.38	1160	3.88	0.02	10.1	2130
D00007640	0.21	19.0	0.98	550	2.62	0.01	26.9	1070
D00007641	0.17	15.6	0.21	2390	3.00	0.02	7.3	910
D00007642	0.46	23.8	0.96	715	2.55	0.01	33.4	1760
D00007643	0.22	19.8	0.45	533	1.99	0.01	8.3	790
D00007644	0.29	21.1	0.56	690	1.69	0.01	9.7	790
D00007645	0.36	28.1	1.44	408	1.97	0.01	51.0	740
D00007646	0.39	8.9	0.42	388	1.12	0.02	6.0	560
D00007647	0.60	39.9	0.87	492	1.76	0.02	14.5	810
D00007648	0.26	39.3	0.45	277	1.56	0.01	16.9	460
D00007649	0.58	20.5	0.83	340	1.32	0.01	21.0	540
D00007650	0.19	29.5	0.45	227	1.61	0.01	18.9	710
D00007651	0.20	17.4	0.21	1070	1.40	0.01	18.5	1450
D00007652	0.15	31.8	0.35	228	1.15	0.01	14.9	670

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007582	1.07	18.7	1.79	933	2.13	0.02	19.0	780
*Rep D00007620	0.56	34.4	1.14	582	1.25	0.02	18.2	900
*Rep D00007635	0.82	41.9	1.44	709	1.38	0.01	29.4	900
*Std OREAS920	0.45	36.3	1.14	530	0.36	0.03	41.4	730
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Std OREAS920	0.42	35.6	1.14	560	0.40	0.03	41.1	710
*Std OREAS920	0.43	36.2	1.10	569	0.36	0.03	39.3	730

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007577	32.0	47.6	0.27	8.5	0.7	21.3	9.3	0.26
D00007578	19.9	64.6	0.21	6.0	0.7	13.9	11.3	0.20
D00007579	12.8	79.5	0.12	8.0	0.7	20.5	9.5	0.25
D00007580	12.4	74.0	0.14	7.8	0.6	20.2	8.8	0.23
D00007581	24.1	39.5	0.26	3.5	0.7	11.7	2.7	0.08
D00007582	30.3	123	0.15	7.3	0.7	13.9	8.6	0.39
D00007583	40.1	58.3	0.27	6.5	0.8	10.3	10.7	0.20
D00007584	9.1	191	0.11	4.0	0.5	14.0	3.1	0.47
D00007585	22.0	188	0.08	9.3	0.7	26.7	10.1	0.24
D00007586	35.6	32.9	0.25	4.5	0.8	10.4	5.2	0.11
D00007587	58.4	29.4	0.31	3.9	0.8	23.5	2.1	0.05
D00007588	18.4	27.8	0.30	4.1	0.9	15.1	1.2	0.14
D00007589	33.1	20.4	0.26	1.4	0.8	13.5	0.8	0.05
D00007590	8.1	17.2	0.09	1.8	<0.3	21.6	0.7	0.06
D00007591	24.3	40.8	0.13	6.4	0.5	24.4	8.4	0.12
D00007592	80.6	89.1	0.11	7.5	0.6	30.0	10.4	0.26
D00007593	49.2	54.4	0.22	6.2	0.5	19.3	11.9	0.20
D00007594	45.2	58.2	0.11	4.8	0.4	27.4	8.4	0.21
D00007595	34.1	68.4	0.20	7.3	0.4	44.0	11.6	0.11
D00007596	31.1	102	0.13	8.0	0.9	27.8	6.7	0.26
D00007597	73.3	57.9	0.35	4.7	0.4	25.4	3.7	0.21
D00007598	30.8	33.0	0.25	5.8	<0.3	20.0	4.7	0.10
D00007599	11.9	33.9	0.23	4.6	<0.3	34.4	3.2	0.10
D00007600	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.2	<0.01
D00007601	83.0	65.5	0.30	4.3	0.7	17.3	4.5	0.34
D00007602	15.2	19.2	0.52	1.9	0.4	11.8	3.7	0.05
D00007603	9.3	22.1	0.48	1.7	0.5	9.7	2.9	0.07
D00007604	9.5	102	0.26	3.5	1.0	32.1	8.6	0.32
D00007605	94.2	51.2	0.30	3.2	0.4	29.8	7.6	0.21
D00007606	39.5	29.9	0.28	2.9	0.4	19.3	4.2	0.21
D00007607	53.6	36.2	0.16	6.3	0.4	19.1	8.8	0.09
D00007608	28.8	18.4	0.16	3.1	<0.3	20.9	1.4	0.05
D00007609	34.3	45.1	0.17	5.6	<0.3	30.4	3.7	0.21
D00007610	23.5	26.9	0.19	3.8	<0.3	26.1	3.2	0.12
D00007611	60.7	32.4	0.22	4.4	0.3	34.9	9.2	0.13
D00007612	35.2	58.3	0.17	3.5	0.4	35.0	7.0	0.30
D00007613	24.3	83.2	0.20	5.0	0.4	32.1	12.3	0.22
D00007614	11.4	66.5	0.31	4.7	0.5	21.5	21.2	0.20
D00007615	13.8	36.2	0.29	1.0	0.7	8.9	1.0	0.07
D00007616	25.7	35.2	0.38	1.8	0.6	12.3	3.6	0.10

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007617	31.1	65.3	0.39	5.6	0.6	22.9	13.7	0.24
D00007618	14.1	107	0.16	6.0	0.6	20.1	8.1	0.37
D00007619	109	104	0.23	3.2	0.4	30.9	6.5	0.31
D00007620	44.1	50.9	0.14	3.0	<0.3	24.5	5.1	0.17
D00007621	12.8	22.5	0.09	1.4	<0.3	15.9	0.7	0.13
D00007622	21.8	18.3	0.18	1.9	0.5	17.7	0.4	0.09
D00007623	26.6	20.7	0.19	3.4	0.4	18.3	2.1	0.17
D00007624	31.5	42.1	0.17	2.3	1.0	16.3	0.5	0.22
D00007625	26.5	23.2	0.22	1.1	0.6	11.3	0.6	0.11
D00007626	34.6	29.0	0.19	2.9	0.5	17.3	2.6	0.25
D00007627	13.1	8.2	0.06	0.6	<0.3	10.0	0.4	0.05
D00007628	42.2	42.8	0.13	2.9	0.5	23.1	4.9	0.15
D00007629	16.3	94.2	0.15	6.0	0.3	32.4	7.5	0.31
D00007630	14.2	108	0.17	6.8	0.9	28.0	17.2	0.32
D00007631	15.1	18.4	0.53	1.8	0.5	9.9	2.1	0.07
D00007632	9.6	25.1	0.37	2.2	0.4	16.5	8.0	0.05
D00007633	25.2	80.4	0.24	4.5	0.7	23.0	12.7	0.27
D00007634	18.8	91.1	0.14	3.8	0.6	9.8	8.4	0.31
D00007635	59.3	83.8	0.17	6.5	0.4	50.0	11.5	0.24
D00007636	20.6	51.1	0.11	2.0	0.7	16.2	2.0	0.12
D00007637	41.6	22.6	0.18	1.1	0.4	18.6	0.7	0.06
D00007638	18.5	33.2	0.25	2.6	0.4	15.1	2.6	0.14
D00007639	19.4	20.3	0.17	0.5	0.4	16.1	0.2	0.03
D00007640	13.2	27.1	0.16	1.6	0.4	12.9	0.8	0.11
D00007641	19.3	51.6	0.24	0.4	0.6	12.4	0.1	0.03
D00007642	24.4	45.8	0.09	4.4	0.5	21.6	6.7	0.18
D00007643	24.0	45.1	0.17	1.3	0.6	17.2	0.9	0.09
D00007644	24.4	44.6	0.18	1.5	0.6	13.5	1.5	0.12
D00007645	18.0	36.1	0.14	3.7	0.3	20.3	6.7	0.23
D00007646	16.9	41.9	0.10	0.9	0.3	8.2	0.4	0.10
D00007647	87.5	67.1	0.17	3.2	0.5	31.9	6.0	0.18
D00007648	15.4	29.3	0.39	2.8	0.4	12.2	12.7	0.14
D00007649	14.0	66.8	0.30	4.5	0.5	15.8	6.9	0.28
D00007650	23.0	31.9	0.46	2.4	0.6	12.7	6.7	0.11
D00007651	67.7	21.3	0.11	7.5	0.3	25.5	2.6	<0.01
D00007652	19.5	23.7	0.39	1.5	0.4	11.5	3.2	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007582	30.6	114	0.13	7.4	0.7	14.6	8.8	0.39
*Rep D00007620	42.1	51.4	0.14	3.0	<0.3	23.3	5.0	0.20
*Rep D00007635	56.2	81.4	0.17	6.2	0.4	49.4	11.6	0.23
*Std OREAS920	18.2	25.5	0.59	2.8	1.1	17.3	15.3	0.13
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Std OREAS920	18.1	23.5	0.54	3.0	1.0	16.4	16.6	0.11
*Std OREAS920	18.6	25.0	0.58	3.2	1.0	17.0	17.1	0.11

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007577	0.49	6.35	121	0.2	18.1	545
D00007578	0.44	2.62	95	0.2	19.1	178
D00007579	0.49	1.94	110	0.2	9.64	97
D00007580	0.50	1.93	102	0.2	9.14	100
D00007581	0.34	2.74	61	0.3	11.9	100
D00007582	0.58	1.70	144	0.2	8.43	103
D00007583	0.38	1.45	84	0.2	10.6	75
D00007584	0.77	0.50	145	0.4	7.28	83
D00007585	0.89	8.22	116	0.2	30.5	89
D00007586	0.32	2.45	62	0.3	14.9	71
D00007587	0.47	22.5	74	0.2	29.3	137
D00007588	0.29	1.45	91	0.2	6.84	75
D00007589	0.17	1.77	46	0.2	9.15	46
D00007590	0.14	3.42	31	<0.1	11.6	156
D00007591	0.41	7.57	118	0.2	19.9	397
D00007592	0.61	3.52	114	0.1	27.4	333
D00007593	0.41	5.48	73	0.1	23.6	266
D00007594	0.45	1.66	71	<0.1	15.5	265
D00007595	0.48	2.13	67	0.1	26.7	235
D00007596	0.84	2.02	128	0.2	20.9	402
D00007597	0.77	1.87	147	0.4	10.6	1020
D00007598	0.29	1.63	67	0.2	12.9	263
D00007599	0.24	1.60	63	<0.1	14.6	160
D00007600	<0.02	0.09	<1	<0.1	0.74	2
D00007601	0.50	0.91	90	0.2	7.34	520
D00007602	0.20	1.07	34	0.5	8.59	66
D00007603	0.16	0.95	39	0.5	8.63	58
D00007604	0.63	1.36	74	0.2	10.9	101
D00007605	0.45	1.51	55	0.1	10.1	254
D00007606	0.23	1.02	52	0.1	6.40	274
D00007607	0.34	2.00	62	0.3	20.1	495
D00007608	0.20	1.79	50	0.4	19.1	347
D00007609	0.44	1.28	115	0.1	7.71	372
D00007610	0.26	1.42	59	0.1	11.0	349
D00007611	0.31	2.78	48	0.5	17.5	411
D00007612	0.47	1.20	73	0.2	8.39	242
D00007613	0.66	2.27	55	0.3	19.9	115
D00007614	0.55	1.90	44	0.3	28.3	137
D00007615	0.20	1.01	30	0.2	6.99	45
D00007616	0.32	1.41	34	0.3	12.9	77

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007617	0.44	1.81	72	0.4	23.2	113
D00007618	0.68	1.44	141	0.1	11.5	132
D00007619	0.87	1.86	78	0.1	11.8	184
D00007620	0.39	1.51	58	0.1	10.5	225
D00007621	0.19	0.53	41	<0.1	3.89	80
D00007622	0.24	1.52	77	0.2	8.88	179
D00007623	0.25	1.79	77	0.1	8.00	236
D00007624	0.22	1.09	59	0.2	5.35	79
D00007625	0.14	1.11	45	0.2	4.86	90
D00007626	0.31	1.33	71	0.1	7.56	193
D00007627	0.08	0.60	21	<0.1	2.95	37
D00007628	0.35	1.10	52	0.1	7.45	242
D00007629	0.70	1.40	105	0.1	11.7	266
D00007630	0.72	2.14	86	0.2	22.8	262
D00007631	0.18	1.21	40	0.4	7.37	63
D00007632	0.20	1.42	30	0.4	11.5	79
D00007633	0.54	1.61	67	0.2	14.8	99
D00007634	0.61	0.66	86	0.3	7.70	96
D00007635	0.76	1.97	70	<0.1	16.4	418
D00007636	0.28	0.98	41	0.1	5.85	154
D00007637	0.19	1.39	40	0.1	7.80	142
D00007638	0.37	1.22	60	0.3	6.02	195
D00007639	0.14	1.81	44	0.2	5.71	58
D00007640	0.26	1.36	49	0.1	6.67	134
D00007641	0.22	0.88	31	0.1	4.51	72
D00007642	0.32	1.91	55	0.2	15.1	167
D00007643	0.25	1.18	37	0.1	7.13	107
D00007644	0.27	1.03	47	0.2	7.63	111
D00007645	0.37	1.73	63	0.1	6.19	217
D00007646	0.25	0.57	37	<0.1	2.70	71
D00007647	0.59	2.09	49	0.1	12.8	328
D00007648	0.26	1.22	44	0.7	8.86	71
D00007649	0.49	0.87	60	0.3	6.13	81
D00007650	0.29	0.94	37	0.3	6.26	68
D00007651	0.23	2.15	29	0.2	21.6	75
D00007652	0.23	1.08	27	0.3	6.60	67

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007582	0.61	1.79	150	0.2	8.63	102
*Rep D00007620	0.40	1.40	58	0.1	10.2	215
*Rep D00007635	0.73	1.90	67	0.1	15.9	392
*Std OREAS920	0.17	2.16	22	0.6	18.6	112
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Std OREAS920	0.17	2.21	22	0.5	16.8	106
*Std OREAS920	0.17	2.31	22	0.5	18.2	108

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Certificate of Analysis
Work Order : VC172767
[Report File No.: 0000025287]

Date: October 16, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01008
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
75	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007653	0.390	5	0.07	1.12	11	164	0.32	0.27
D00007654	0.260	<5	0.27	1.33	35	172	0.58	0.31
D00007655	0.365	6	0.49	1.61	18	139	0.72	0.69
D00007656	0.275	13	0.11	1.52	16	137	0.44	0.29
D00007657	0.125	19	0.29	0.75	9	122	0.45	0.22
D00007658	0.080	<5	0.10	0.15	<1	46	0.03	0.10
D00007659	0.370	55	0.14	0.80	7	76	0.43	0.13
D00007660	0.275	5	0.17	0.45	2	65	0.21	0.11
D00007661	0.090	<5	0.45	0.70	12	148	0.22	0.27
D00007662	0.340	14	0.08	1.25	7	61	0.32	0.20
D00007663	0.170	<5	0.27	1.64	33	227	0.29	1.12
D00007664	0.540	7	0.11	2.07	48	151	0.37	0.58
D00007665	0.315	<5	0.39	0.34	3	40	0.22	0.77
D00007666	0.470	7	0.10	1.19	7	81	0.63	0.13
D00007667	0.425	6	0.27	1.31	9	86	0.31	0.19
D00007668	0.380	5	0.35	1.32	16	153	0.22	0.40
D00007669	0.180	7	0.35	2.32	23	99	0.15	1.40
D00007670	0.430	<5	0.14	2.21	8	122	0.19	0.47
D00007671	0.515	<5	0.11	1.76	12	189	0.31	0.51
D00007672	0.435	<5	0.13	1.61	3	133	0.45	0.43
D00007673	0.360	<5	0.14	1.18	9	126	0.38	0.22
D00007674	0.475	5	0.08	1.11	9	89	0.28	0.29
D00007675	0.285	<5	0.22	1.51	8	170	0.29	0.27
D00007676	0.375	6	0.31	0.49	24	92	0.35	0.17
D00007677	0.385	<5	0.40	0.60	25	79	0.52	0.15
D00007678	0.320	7	0.28	0.89	34	66	0.52	0.15
D00007679	0.350	9	0.44	0.29	305	33	0.67	0.06
D00007680	0.110	<5	<0.01	0.01	<1	<5	<0.02	0.03
D00007681	0.445	<5	0.19	0.67	28	76	0.61	0.12
D00007682	0.290	<5	0.38	0.57	19	56	0.66	0.08
D00007683	0.125	<5	0.16	0.63	8	122	0.46	0.14
D00007684	0.175	<5	0.19	1.39	14	151	0.26	0.21
D00007685	0.325	<5	0.06	1.35	6	113	0.23	0.31
D00007686	0.215	<5	0.19	0.81	178	82	0.46	0.42
D00007687	0.260	<5	0.09	1.64	8	217	0.39	0.44
D00007688	0.415	22	1.45	0.16	75	33	1.23	0.02
D00007689	0.230	6	0.76	0.56	27	113	1.25	0.08
D00007690	0.155	8	0.87	1.43	25	183	0.36	0.35
D00007691	0.095	15	0.50	1.04	5	275	0.21	0.79
D00007692	0.055	49	8.23	1.40	120	630	1.51	0.46

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007693	0.375	<5	0.15	1.73	5	233	0.30	0.36
D00007694	0.365	<5	0.08	0.68	7	133	0.26	0.09
D00007695	0.450	6	0.63	1.14	11	106	0.97	0.17
D00007696	0.160	15	2.03	1.11	38	189	0.55	0.36
D00007697	0.310	9	0.19	1.99	21	230	0.22	0.87
D00007698	0.345	<5	0.02	1.34	3	108	0.17	0.44
D00007699	0.225	5	0.73	0.55	42	56	0.60	0.11
D00007700	0.215	<5	0.66	0.51	37	49	0.56	0.10
D00007701	0.320	<5	0.07	1.42	8	83	0.43	0.27
D00007702	0.305	<5	0.10	0.77	2	85	0.25	0.15
D00007703	0.230	<5	0.09	1.06	7	84	0.25	0.23
D00007704	0.350	<5	0.05	1.37	2	67	0.10	0.28
D00007705	0.135	<5	0.19	3.00	5	339	0.14	0.55
D00007706	0.190	<5	0.23	1.06	11	185	0.70	0.23
D00007707	0.350	<5	0.13	0.67	13	78	0.40	0.11
D00007708	0.250	<5	0.14	1.00	8	162	0.29	0.24
D00007709	0.230	<5	0.10	0.74	5	131	0.29	0.06
D00007710	0.175	<5	1.32	1.05	17	146	0.99	0.15
D00007711	0.345	8	0.18	0.67	46	122	0.35	0.12
D00007712	0.455	<5	0.07	1.11	8	91	0.33	0.18
D00007713	0.220	I.S.	0.28	1.07	9	135	0.25	0.15
D00007714	0.535	10	0.30	1.05	7	98	0.51	0.25
D00007715	0.080	28	5.23	1.15	16	344	0.32	0.14
D00007716	0.525	<5	0.17	1.46	3	134	0.36	0.32
D00007717	0.405	<5	0.16	1.45	7	159	0.29	0.42
D00007718	0.320	<5	0.16	2.57	18	147	0.24	0.52
D00007719	0.360	<5	0.07	2.29	20	78	0.19	0.35
D00007720	0.110	<5	<0.01	<0.01	<1	<5	<0.02	<0.01
D00007721	0.260	<5	0.26	1.83	11	123	0.70	0.16
D00007722	0.310	5	0.63	1.00	13	138	0.32	0.51
D00007723	0.420	<5	0.25	0.93	9	80	0.25	0.55
D00007724	0.280	8	0.58	1.10	10	98	0.33	0.68
D00007725	0.415	<5	0.23	1.62	9	137	0.32	0.35
D00007726	0.385	<5	0.19	1.47	8	113	0.29	0.35
D00007727	0.400	<5	0.13	1.66	5	93	0.29	0.48
D00007728	0.440	<5	0.16	1.72	24	110	0.24	0.44
*Rep D00007664		<5						
*Std OREAS151B		69						
*Std OXK119		3750						
*Std OREAS151B		68						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Blk BLANK	<5						
*Rep D00007676		0.31	0.48	23	89	0.32	0.17
*Rep D00007709		0.11	0.72	5	129	0.28	0.06
*Std OREAS920		0.12	2.40	4	83	0.65	0.38
*Std OREAS151B		0.59	2.50	30	71	0.41	1.42
*Std OREAS902		0.33	0.52	573	16	9.00	4.35
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007695	13						
*Rep D00007714	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007653	0.35	161	9.7	17	14.8	2.68	4.6	0.03
D00007654	0.76	139	10.5	24	21.5	3.25	5.4	0.05
D00007655	1.43	96.4	12.2	21	73.9	3.34	5.5	0.03
D00007656	0.58	58.6	10.3	24	23.6	3.21	6.1	0.02
D00007657	4.06	51.3	7.8	8	14.2	1.81	3.6	0.04
D00007658	0.67	3.47	1.6	2	2.3	0.35	0.7	0.01
D00007659	1.09	34.1	5.0	19	18.8	1.83	4.0	0.02
D00007660	1.15	19.0	3.1	8	9.2	1.02	3.1	0.01
D00007661	1.48	27.6	10.7	10	12.7	1.41	2.9	0.03
D00007662	0.23	19.8	8.0	31	8.9	2.46	7.3	<0.01
D00007663	1.67	44.1	9.9	26	48.1	2.69	4.9	0.06
D00007664	0.15	61.8	15.7	42	24.2	4.36	7.3	<0.01
D00007665	0.40	94.3	18.8	4	46.9	4.22	1.7	0.02
D00007666	0.16	50.7	9.0	23	31.9	3.20	4.7	0.05
D00007667	0.49	33.1	12.1	25	40.7	3.57	4.4	0.04
D00007668	0.63	48.8	16.9	29	61.0	4.25	4.3	0.06
D00007669	0.42	29.2	28.9	75	87.8	4.91	7.1	0.04
D00007670	0.17	29.3	13.9	48	41.5	4.09	8.2	0.02
D00007671	0.20	38.7	11.4	50	37.5	3.63	7.0	<0.01
D00007672	0.44	38.5	7.1	37	27.4	2.43	6.2	0.03
D00007673	0.53	49.1	8.0	30	21.7	2.04	4.6	0.02
D00007674	0.51	50.9	8.8	31	24.2	2.13	4.0	0.03
D00007675	0.32	33.1	9.3	50	16.7	2.52	7.1	0.04
D00007676	0.52	61.0	5.2	13	16.8	1.21	1.9	0.08
D00007677	0.33	37.5	5.6	21	18.6	1.60	2.3	0.07
D00007678	0.51	40.5	6.1	19	41.8	1.82	3.4	0.08
D00007679	0.37	31.5	2.1	8	25.3	2.16	2.0	0.05
D00007680	<0.01	0.88	0.1	<1	0.7	0.03	<0.1	<0.01
D00007681	0.60	53.3	4.9	14	50.8	1.64	2.6	0.03
D00007682	0.26	65.8	2.2	7	14.0	2.24	2.5	0.06
D00007683	1.28	46.3	7.7	11	8.7	1.43	3.4	0.03
D00007684	0.42	40.4	10.6	25	15.6	2.46	5.6	0.02
D00007685	0.14	44.0	9.0	39	16.3	2.42	5.2	0.01
D00007686	0.60	68.9	27.3	26	61.4	3.25	2.4	0.03
D00007687	0.15	68.9	15.5	45	20.6	3.39	5.6	0.03
D00007688	0.07	30.3	1.5	2	31.5	1.84	0.7	0.43
D00007689	0.07	87.4	5.8	8	24.0	2.47	2.4	0.07
D00007690	0.69	44.8	8.6	38	32.7	2.81	5.3	0.12
D00007691	1.30	44.9	8.3	22	29.4	1.70	4.3	0.08
D00007692	7.75	207	97.0	32	69.5	4.97	5.7	0.70

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007693	0.26	39.6	11.2	48	24.7	2.85	6.3	0.03
D00007694	0.26	33.5	5.7	13	40.5	1.69	2.7	0.03
D00007695	0.24	53.1	5.0	27	38.3	1.68	4.5	0.06
D00007696	2.10	57.7	17.3	31	31.5	2.86	5.0	0.16
D00007697	2.30	31.6	16.2	97	18.3	3.28	7.2	0.04
D00007698	0.23	27.1	10.8	43	18.1	2.46	5.0	0.01
D00007699	0.45	24.5	4.8	17	74.9	2.71	2.6	0.11
D00007700	0.34	23.8	2.9	16	65.6	2.56	2.8	0.13
D00007701	0.91	67.9	9.3	35	18.7	2.55	5.3	0.01
D00007702	0.20	21.0	4.5	23	11.6	1.57	4.7	0.04
D00007703	0.20	20.6	7.9	37	14.9	2.37	5.7	0.03
D00007704	0.16	22.3	8.3	17	11.0	2.59	5.1	0.02
D00007705	1.55	56.1	17.7	31	18.8	5.66	10.7	0.02
D00007706	1.21	177	8.7	17	19.4	2.69	4.9	0.05
D00007707	0.35	30.4	4.9	23	13.9	2.00	3.5	0.03
D00007708	0.68	30.4	6.2	23	12.4	1.93	5.3	0.05
D00007709	0.21	38.3	1.4	9	5.6	0.65	5.0	0.04
D00007710	0.43	26.4	4.4	19	36.8	2.22	3.8	0.15
D00007711	0.39	75.4	6.7	16	20.6	1.95	3.2	0.08
D00007712	0.21	30.5	6.6	29	11.6	2.04	5.2	0.03
D00007713	0.31	41.4	7.3	35	15.6	2.22	6.6	0.07
D00007714	0.39	45.6	5.1	31	25.0	1.24	3.8	0.13
D00007715	8.16	147	5.5	31	59.1	1.56	3.1	2.37
D00007716	0.89	49.3	7.8	43	20.9	2.06	5.5	0.06
D00007717	0.38	45.4	11.1	43	31.9	2.78	5.2	0.02
D00007718	0.22	44.2	20.5	52	36.6	5.42	10.6	<0.01
D00007719	0.21	31.7	18.2	55	56.4	4.99	8.8	<0.01
D00007720	<0.01	0.86	<0.1	<1	0.6	0.02	<0.1	<0.01
D00007721	0.55	51.2	21.1	40	69.6	4.59	5.5	0.04
D00007722	0.96	48.2	22.1	22	76.0	5.69	3.7	0.08
D00007723	0.36	58.8	12.9	21	39.8	3.96	3.4	0.05
D00007724	0.42	49.5	13.7	25	57.8	4.39	4.0	0.10
D00007725	0.65	61.1	20.8	40	46.6	5.52	6.1	0.04
D00007726	0.52	40.8	8.8	53	27.7	2.65	6.1	0.01
D00007727	0.57	49.3	11.3	45	37.9	2.75	6.4	0.02
D00007728	0.20	50.1	16.1	49	28.4	4.15	6.6	0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007676	0.52	60.0	4.6	12	16.7	1.17	1.8	0.09
*Rep D00007709	0.21	36.9	1.4	10	5.1	0.65	4.9	0.03
*Std OREAS920	0.07	71.3	14.6	45	121	3.70	7.1	<0.01
*Std OREAS151B	0.60	15.1	11.3	27	1910	3.36	7.6	0.02
*Std OREAS902	0.02	30.9	974	22	3210	3.19	1.6	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007653	0.28	71.9	0.49	568	1.73	0.01	15.4	840
D00007654	0.49	52.6	0.65	535	1.53	0.01	15.4	920
D00007655	0.59	48.8	1.20	615	1.13	0.01	24.1	1440
D00007656	0.40	35.4	0.84	573	1.54	0.01	13.7	920
D00007657	0.25	23.8	0.46	1790	1.92	0.01	6.8	630
D00007658	0.05	2.0	0.02	467	0.68	0.03	1.0	940
D00007659	0.15	19.7	0.45	310	1.44	0.01	9.1	540
D00007660	0.10	11.4	0.18	425	1.29	0.02	4.0	500
D00007661	0.09	16.8	0.18	1670	2.63	0.02	5.7	2170
D00007662	0.19	11.7	0.81	286	1.61	<0.01	11.1	540
D00007663	0.25	38.7	0.69	465	1.95	0.02	20.0	910
D00007664	0.72	43.5	1.24	397	3.31	0.01	21.1	1190
D00007665	0.03	54.5	0.22	1060	1.12	0.01	39.3	970
D00007666	0.06	26.9	0.50	449	1.22	0.01	22.3	750
D00007667	0.06	18.5	0.42	535	4.63	0.01	31.6	970
D00007668	0.07	41.7	0.52	956	2.96	0.01	47.3	1080
D00007669	0.04	16.2	1.76	1120	1.52	0.01	56.7	1220
D00007670	0.11	16.9	1.44	421	1.38	0.01	32.2	1340
D00007671	0.30	23.3	1.20	254	1.33	0.02	29.1	1250
D00007672	0.17	22.5	0.94	235	0.81	0.01	21.2	950
D00007673	0.17	27.9	0.57	318	1.21	0.02	17.0	860
D00007674	0.18	28.0	0.62	319	1.24	0.01	23.9	830
D00007675	0.24	19.6	0.85	431	1.39	0.02	26.0	900
D00007676	0.10	34.6	0.20	254	2.24	0.01	12.6	430
D00007677	0.11	21.1	0.31	223	3.52	0.01	13.9	420
D00007678	0.12	22.8	0.36	266	1.75	0.01	14.2	540
D00007679	0.06	18.1	0.09	95	4.35	0.01	5.3	350
D00007680	<0.01	0.5	<0.01	<2	<0.05	0.01	<0.5	<50
D00007681	0.10	29.6	0.22	271	2.44	0.01	13.0	520
D00007682	0.14	36.1	0.18	90	5.69	0.01	5.0	770
D00007683	0.22	23.6	0.28	778	2.97	0.01	7.2	610
D00007684	0.22	19.2	0.60	536	1.65	0.02	13.7	890
D00007685	0.23	27.1	0.76	258	1.08	0.02	20.9	1060
D00007686	0.21	38.1	0.37	1520	4.55	0.01	55.9	700
D00007687	0.38	29.7	0.87	589	1.56	0.01	31.6	800
D00007688	0.07	16.9	0.02	54	9.42	<0.01	1.6	200
D00007689	0.22	48.0	0.12	130	6.51	0.02	10.4	610
D00007690	0.24	27.2	0.72	265	2.24	0.02	24.0	920
D00007691	0.12	29.8	0.44	450	0.98	0.03	20.6	1390
D00007692	0.13	98.8	0.44	9750	8.87	0.02	39.8	1740

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007693	0.33	25.8	0.96	391	1.03	0.02	25.8	1180
D00007694	0.10	18.5	0.26	322	1.21	0.01	18.2	440
D00007695	0.10	37.6	0.46	147	2.68	0.01	15.9	600
D00007696	0.11	40.1	0.48	1240	3.00	0.02	18.9	1020
D00007697	0.22	15.0	1.33	918	1.36	0.02	43.1	1030
D00007698	0.35	14.7	0.88	338	0.65	0.02	23.9	1430
D00007699	0.14	14.3	0.25	285	4.67	0.01	8.2	720
D00007700	0.11	13.7	0.21	114	4.72	0.01	7.8	660
D00007701	0.20	25.2	0.67	501	1.44	0.02	20.0	910
D00007702	0.19	14.0	0.35	126	1.15	0.01	10.8	480
D00007703	0.17	11.2	0.58	234	1.24	0.02	17.7	860
D00007704	0.40	10.3	0.74	318	0.88	0.03	6.5	880
D00007705	0.73	38.6	1.56	866	1.57	0.02	13.8	1330
D00007706	0.17	87.7	0.26	569	6.19	0.02	14.8	990
D00007707	0.12	16.8	0.32	163	3.19	0.01	12.1	380
D00007708	0.12	17.5	0.39	265	1.14	0.02	12.9	720
D00007709	0.07	22.5	0.06	61	1.39	0.01	4.1	530
D00007710	0.11	15.4	0.17	261	3.65	0.02	11.1	1160
D00007711	0.07	40.5	0.19	358	3.13	0.01	14.8	370
D00007712	0.13	19.6	0.44	218	1.25	0.01	14.2	730
D00007713	0.14	24.0	0.47	372	3.52	0.01	13.3	680
D00007714	0.13	26.0	0.51	119	0.87	0.01	16.5	760
D00007715	0.05	85.8	0.09	350	2.10	<0.01	9.9	1720
D00007716	0.23	27.5	0.79	212	0.50	0.02	23.7	970
D00007717	0.25	28.7	0.87	350	1.00	0.02	32.0	1240
D00007718	0.26	17.2	1.30	992	1.52	0.01	31.6	850
D00007719	0.05	15.2	1.33	483	2.25	0.01	44.4	1310
D00007720	<0.01	0.5	<0.01	<2	<0.05	<0.01	<0.5	<50
D00007721	0.06	21.5	0.80	1020	1.93	0.01	48.4	870
D00007722	0.07	40.1	0.33	1380	4.09	0.01	61.0	1450
D00007723	0.04	35.7	0.33	614	1.86	0.01	28.7	820
D00007724	0.07	33.1	0.48	1020	2.46	0.01	32.0	1000
D00007725	0.10	30.3	0.74	956	2.30	0.01	34.2	1060
D00007726	0.11	22.6	0.77	1130	0.97	0.01	36.1	990
D00007727	0.10	30.3	0.86	485	1.17	0.01	33.9	1290
D00007728	0.12	25.9	0.96	628	1.67	0.01	31.0	1250

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007676	0.10	34.3	0.18	235	2.28	0.01	12.0	410
*Rep D00007709	0.06	21.8	0.06	63	1.29	0.01	4.2	520
*Std OREAS920	0.48	39.3	1.18	544	0.46	0.03	37.9	770
*Std OREAS151B	0.43	7.8	1.56	290	56.6	0.18	14.0	570
*Std OREAS902	0.28	16.6	2.36	497	12.4	0.02	162	730
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007653	42.0	39.3	0.32	2.6	0.4	15.1	10.7	0.09
D00007654	98.8	70.5	0.29	3.7	0.5	19.3	23.2	0.19
D00007655	54.4	63.0	0.17	4.4	0.4	38.6	18.4	0.16
D00007656	35.8	56.4	0.20	2.4	0.4	17.0	3.6	0.12
D00007657	35.8	38.8	0.13	1.2	0.3	15.0	3.8	0.09
D00007658	2.3	3.7	<0.05	0.2	<0.3	6.7	0.2	0.01
D00007659	24.1	22.1	0.21	0.8	0.3	9.4	0.3	0.06
D00007660	14.1	13.6	0.09	0.3	<0.3	6.8	<0.1	0.03
D00007661	57.7	15.8	0.16	0.2	<0.3	15.6	<0.1	<0.01
D00007662	10.2	22.8	0.09	3.3	0.6	7.5	1.1	0.17
D00007663	18.3	36.4	0.14	2.6	0.4	32.7	1.7	0.08
D00007664	22.6	85.2	0.13	6.4	0.7	21.1	13.1	0.19
D00007665	38.0	2.9	0.26	1.8	<0.3	23.5	12.1	<0.01
D00007666	63.6	8.6	0.36	1.2	0.5	5.7	1.7	0.04
D00007667	60.3	9.3	0.61	2.1	0.4	10.8	2.0	0.05
D00007668	23.5	9.4	0.44	3.4	0.4	15.0	3.8	0.04
D00007669	15.7	5.7	0.20	6.5	<0.3	56.6	1.7	0.06
D00007670	12.1	16.7	0.19	6.1	0.5	23.5	4.7	0.09
D00007671	23.6	29.7	0.18	4.8	0.9	18.3	9.3	0.19
D00007672	22.9	20.4	0.23	3.1	0.7	15.6	6.8	0.10
D00007673	24.5	21.3	0.50	2.3	0.6	9.8	5.0	0.09
D00007674	21.4	18.5	0.56	2.7	0.5	10.9	9.8	0.11
D00007675	18.6	25.7	0.36	2.7	0.9	11.2	3.0	0.14
D00007676	27.3	10.5	1.78	1.1	<0.3	7.9	9.7	0.03
D00007677	41.1	12.9	3.02	1.3	<0.3	6.9	12.9	0.06
D00007678	42.2	15.7	2.75	1.8	0.5	8.0	7.5	0.06
D00007679	78.7	10.6	2.62	0.6	0.3	3.9	4.6	0.02
D00007680	0.5	<0.2	0.10	<0.1	<0.3	0.5	0.3	<0.01
D00007681	36.5	13.5	0.85	1.1	0.4	8.7	6.3	0.04
D00007682	89.9	13.2	0.69	0.4	0.3	7.9	2.5	0.02
D00007683	26.3	41.0	0.35	1.0	0.4	9.6	1.9	0.06
D00007684	27.5	30.3	0.45	2.0	0.6	11.7	2.4	0.12
D00007685	15.3	26.8	0.18	2.5	0.6	11.7	2.7	0.12
D00007686	18.5	26.6	0.17	3.2	<0.3	11.3	17.0	0.07
D00007687	14.2	44.3	0.18	4.2	0.6	13.2	10.7	0.15
D00007688	249	5.4	15.0	0.4	0.3	7.8	24.4	<0.01
D00007689	57.3	14.6	2.44	0.9	<0.3	12.4	35.8	<0.01
D00007690	89.4	32.5	1.62	3.3	0.7	12.6	12.0	0.11
D00007691	24.2	17.9	0.43	1.3	0.4	31.2	2.0	0.07
D00007692	478	18.8	4.79	2.5	0.7	29.1	4.5	0.04

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007693	15.8	34.7	0.20	3.4	0.8	15.5	5.4	0.16
D00007694	29.9	10.5	0.57	1.5	<0.3	9.5	4.8	0.04
D00007695	66.3	12.0	2.29	1.9	0.6	9.2	3.9	0.07
D00007696	180	14.0	1.39	1.9	0.7	15.5	2.1	0.07
D00007697	43.6	36.4	0.88	2.7	0.9	21.1	2.7	0.18
D00007698	9.4	38.3	0.13	3.1	0.6	13.1	4.7	0.14
D00007699	427	15.6	3.25	0.9	0.5	15.9	3.5	0.05
D00007700	305	13.1	2.77	0.9	0.5	14.2	2.1	0.04
D00007701	21.2	26.1	0.24	2.8	0.8	9.0	3.6	0.13
D00007702	9.6	28.9	0.14	1.0	1.0	7.5	0.3	0.11
D00007703	20.4	21.9	0.60	2.4	0.7	11.2	2.4	0.13
D00007704	8.4	36.4	0.47	1.6	0.4	12.6	1.3	0.20
D00007705	20.0	127	0.26	4.5	0.9	19.5	3.7	0.38
D00007706	62.1	31.1	0.48	1.0	0.6	17.8	2.6	0.03
D00007707	42.6	16.6	0.84	1.6	0.5	5.8	5.7	0.08
D00007708	11.2	18.5	0.36	1.9	0.6	11.2	1.9	0.09
D00007709	9.3	15.2	0.28	0.7	0.8	6.0	1.0	0.02
D00007710	89.5	23.8	1.75	0.9	0.4	9.8	1.0	0.03
D00007711	30.5	9.2	1.64	1.2	0.3	11.3	5.0	0.04
D00007712	14.7	14.5	0.26	2.1	0.7	7.8	1.9	0.09
D00007713	18.6	13.9	0.46	2.3	0.8	7.5	4.2	0.13
D00007714	70.1	16.8	2.36	2.6	0.5	10.7	10.0	0.09
D00007715	79.4	5.6	3.19	1.9	0.3	7.6	2.7	0.02
D00007716	21.4	25.9	0.20	3.9	0.7	11.1	7.7	0.13
D00007717	15.7	25.4	0.25	4.5	0.5	17.1	9.3	0.11
D00007718	16.5	38.5	0.15	10.9	0.4	23.5	6.0	0.13
D00007719	14.0	6.4	0.28	5.7	<0.3	17.1	4.5	0.05
D00007720	0.3	<0.2	<0.05	<0.1	<0.3	<0.5	0.3	<0.01
D00007721	135	10.4	0.50	2.5	0.3	8.7	3.2	0.04
D00007722	27.8	10.0	0.29	3.6	0.3	18.7	3.5	0.03
D00007723	20.5	5.9	0.31	3.2	<0.3	17.1	7.7	0.02
D00007724	29.3	8.0	0.34	3.3	0.3	24.6	6.7	0.04
D00007725	28.7	17.6	0.29	4.6	0.5	14.0	8.2	0.07
D00007726	20.4	18.5	0.18	3.9	0.5	13.9	4.7	0.07
D00007727	22.8	15.8	0.18	4.2	0.6	16.6	7.1	0.08
D00007728	18.9	15.6	0.16	4.3	0.5	16.7	7.5	0.07

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007676	27.2	10.5	1.64	1.0	<0.3	7.7	9.8	0.03
*Rep D00007709	9.3	14.6	0.25	0.7	0.8	6.0	0.8	0.02
*Std OREAS920	24.4	26.9	0.61	3.0	1.2	17.9	16.9	0.16
*Std OREAS151B	43.7	20.6	0.56	9.1	1.1	39.4	2.6	0.08
*Std OREAS902	11.0	10.0	0.85	2.7	<0.3	22.3	5.4	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007653	0.38	2.43	29	0.4	13.4	79
D00007654	0.63	2.24	42	0.5	12.4	179
D00007655	0.57	1.75	43	<0.1	18.8	287
D00007656	0.42	2.10	49	0.1	12.3	161
D00007657	0.41	1.26	20	0.2	6.27	107
D00007658	0.04	0.25	7	<0.1	0.32	8
D00007659	0.13	1.14	32	<0.1	4.09	96
D00007660	0.07	0.81	21	0.1	2.61	47
D00007661	0.16	1.62	25	<0.1	3.80	58
D00007662	0.15	0.53	71	0.2	3.64	94
D00007663	0.29	13.5	43	<0.1	21.9	153
D00007664	0.53	11.5	77	0.2	22.1	91
D00007665	0.03	1.40	7	<0.1	29.9	70
D00007666	0.10	0.85	27	0.2	5.88	139
D00007667	0.13	1.42	39	0.3	6.49	314
D00007668	0.11	1.50	37	0.2	24.3	761
D00007669	0.10	0.81	72	<0.1	11.4	131
D00007670	0.18	0.86	77	0.2	8.47	115
D00007671	0.25	1.41	66	0.3	9.54	111
D00007672	0.22	1.03	37	0.2	8.70	157
D00007673	0.17	1.83	34	0.3	10.9	120
D00007674	0.17	1.38	35	0.3	9.38	137
D00007675	0.17	1.28	48	0.3	7.12	84
D00007676	0.30	2.79	14	0.4	13.0	148
D00007677	0.29	2.23	18	0.2	11.4	129
D00007678	0.16	1.74	29	0.8	6.34	140
D00007679	0.15	1.65	13	0.3	3.37	108
D00007680	<0.02	0.08	<1	<0.1	0.74	2
D00007681	0.15	2.22	20	0.2	6.17	218
D00007682	0.18	3.87	11	0.2	10.9	120
D00007683	0.28	1.81	24	0.1	7.80	117
D00007684	0.27	1.78	44	0.2	8.36	125
D00007685	0.28	1.34	43	0.2	9.26	58
D00007686	0.54	4.07	24	0.2	38.1	59
D00007687	0.37	2.64	54	0.3	15.6	74
D00007688	0.89	4.26	2	0.9	6.36	108
D00007689	0.57	3.74	9	0.2	9.07	25
D00007690	0.44	4.19	44	0.3	14.0	296
D00007691	0.18	1.85	35	0.2	20.0	133
D00007692	2.30	6.88	37	0.9	48.2	356

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007693	0.29	1.74	57	0.4	11.5	114
D00007694	0.13	1.26	19	0.1	5.35	165
D00007695	0.40	2.76	30	0.3	14.0	137
D00007696	0.31	2.31	39	0.3	22.3	242
D00007697	0.36	1.19	59	3.0	9.68	350
D00007698	0.24	0.82	50	0.2	7.69	62
D00007699	0.35	1.88	22	0.5	5.51	320
D00007700	0.32	1.81	24	0.5	4.92	260
D00007701	0.18	3.27	40	0.4	17.5	589
D00007702	0.13	1.37	40	1.1	6.62	39
D00007703	0.16	0.85	46	1.7	5.70	52
D00007704	0.25	0.65	61	0.2	5.09	59
D00007705	0.76	2.04	101	0.2	16.2	214
D00007706	0.27	10.8	23	0.3	37.2	225
D00007707	0.13	1.86	31	0.2	4.76	174
D00007708	0.11	1.49	44	0.6	7.03	157
D00007709	0.19	1.23	22	0.2	4.38	33
D00007710	0.24	3.96	31	0.2	9.94	165
D00007711	0.17	2.65	26	0.2	11.0	145
D00007712	0.15	1.15	44	0.3	7.04	65
D00007713	0.15	1.88	70	0.2	8.98	58
D00007714	0.20	1.58	31	0.3	10.8	123
D00007715	0.47	8.83	16	0.2	32.8	71
D00007716	0.21	1.88	46	0.2	10.5	205
D00007717	0.19	1.65	51	0.2	13.4	99
D00007718	0.32	0.76	113	<0.1	10.3	118
D00007719	0.08	0.73	92	0.1	7.63	144
D00007720	<0.02	0.10	1	<0.1	0.66	<1
D00007721	0.14	0.87	44	0.3	8.28	949
D00007722	0.15	2.39	31	0.1	21.2	282
D00007723	0.09	1.29	30	0.1	13.5	146
D00007724	0.16	1.79	33	0.1	13.1	143
D00007725	0.16	1.59	49	0.1	11.9	169
D00007726	0.12	0.96	46	0.1	10.7	135
D00007727	0.14	1.37	47	0.1	15.8	181
D00007728	0.14	1.15	56	0.1	9.23	107

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Final : VC172767 Order: PO# BMC17-01008

Report File No.: 0000025287

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007676	0.29	2.47	13	0.6	12.6	143
*Rep D00007709	0.17	1.17	21	0.3	4.18	32
*Std OREAS920	0.18	2.36	23	0.6	19.3	114
*Std OREAS151B	0.14	0.67	144	0.7	11.3	250
*Std OREAS902	0.24	2.46	8	2.5	7.90	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172768
[Report File No.: 0000024734]

Date: September 18, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01008
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007729	0.255	<5	0.18	1.19	17	92	0.54	0.38
D00007730	0.170	7	0.13	1.43	6	161	0.22	0.58
D00007731	0.320	<5	0.14	1.41	5	157	0.37	0.31
D00007732	0.380	<5	<0.01	1.15	9	101	0.27	0.26
D00007733	0.115	6	1.62	0.99	17	103	0.27	0.10
D00007734	0.335	19	0.12	0.31	23	45	0.41	0.02
D00007735	0.300	<5	0.14	0.79	20	78	0.27	0.11
D00007736	0.370	6	0.14	1.29	5	120	0.23	0.29
D00007737	0.250	<5	0.20	0.69	20	115	0.44	0.10
D00007738	0.295	6	0.26	1.40	25	266	0.28	0.23
D00007739	0.155	6	0.23	1.24	25	110	0.51	0.09
D00007740	0.165	5	0.03	0.65	7	53	0.15	0.07
D00007741	0.300	<5	0.06	0.63	9	59	0.19	0.07
D00007742	0.340	<5	0.17	0.68	25	103	0.27	0.08
D00007743	0.350	<5	0.27	1.38	62	151	0.61	0.06
D00007744	0.435	13	0.13	0.99	37	90	0.75	0.10
D00007745	0.360	6	0.48	0.56	168	89	1.70	0.04
D00007746	0.335	<5	0.03	0.53	18	38	0.26	0.01
D00007747	0.515	<5	0.14	0.78	59	152	0.35	0.18
D00007748	0.385	<5	0.08	0.64	18	82	0.44	0.05
D00007749	0.340	10	0.22	0.62	10	56	0.56	0.06
D00007750	0.195	6	0.25	0.77	27	113	0.98	0.19
D00007751	0.320	<5	0.20	0.92	18	187	0.56	0.24
D00007752	0.250	9	0.14	1.19	10	356	0.38	0.21
D00007753	0.190	7	0.45	0.54	13	126	0.47	0.07
D00007754	0.320	10	1.37	0.92	45	104	0.86	0.28
D00007755	0.360	7	0.14	0.90	10	214	0.54	0.07
D00007756	0.275	9	0.05	1.00	3	607	0.17	0.04
D00007757	0.305	<5	0.09	1.14	7	339	0.22	0.08
D00007758	0.220	<5	0.23	1.31	9	531	0.40	0.09
D00007759	0.510	<5	0.03	0.81	8	226	0.21	0.08
D00007760	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00007761	0.615	6	0.25	0.97	8	105	0.30	0.18
D00007762	0.330	<5	0.02	1.12	6	146	0.19	0.21
D00007763	0.370	<5	0.05	0.98	6	167	0.27	0.13
D00007764	0.150	<5	0.07	0.57	6	353	0.26	0.05
D00007765	0.120	<5	0.04	0.45	<1	1040	0.13	0.10
D00007766	0.430	5	0.05	0.84	6	171	0.29	0.07
D00007767	0.440	<5	0.09	0.48	5	239	0.40	0.10
D00007768	0.195	<5	0.08	0.31	3	138	0.51	0.12

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007769	0.415	<5	<0.01	0.89	6	358	0.26	0.11
D00007770	0.215	<5	0.05	1.47	3	874	0.33	0.10
D00007771	0.290	<5	0.05	0.40	2	154	0.10	0.05
D00007772	0.245	<5	0.13	0.33	2	64	0.11	0.03
D00007773	0.340	<5	0.05	0.81	4	150	0.31	0.08
D00007774	0.185	5	0.08	0.80	3	270	0.35	0.04
D00007775	0.430	8	0.02	0.83	4	154	0.24	0.05
D00007776	0.170	<5	0.32	0.89	14	407	0.34	0.33
D00007777	0.305	5	0.04	1.19	17	174	0.25	0.20
D00007778	0.415	<5	<0.01	1.18	4	425	0.33	0.16
D00007779	0.185	<5	0.08	1.07	3	247	0.22	0.12
D00007780	0.180	7	0.13	1.16	3	324	0.25	0.16
D00007781	0.615	<5	0.41	0.87	64	115	0.48	0.14
D00007782	0.330	7	0.02	0.64	11	49	0.28	0.06
D00007783	0.295	<5	0.14	0.75	11	76	0.26	0.12
D00007784	0.320	<5	0.53	0.79	14	73	0.45	0.12
D00007785	0.345	<5	0.21	0.75	10	64	0.33	0.08
D00007786	0.270	<5	0.25	0.78	11	99	0.41	0.05
D00007787	0.270	<5	0.28	0.56	19	83	0.35	0.10
D00007788	0.240	<5	0.22	0.68	8	73	0.43	0.12
D00007789	0.440	6	0.46	0.61	24	116	0.77	0.20
D00007790	0.325	<5	0.22	0.69	20	98	0.98	0.14
D00007791	0.355	<5	0.44	2.47	101	202	0.38	0.30
D00007792	0.370	9	0.05	0.92	8	127	0.26	0.10
D00007793	0.350	6	0.18	0.82	15	367	0.28	0.13
D00007794	0.480	8	0.09	0.94	8	422	0.17	0.22
D00007795	0.225	5	0.12	0.81	2	449	0.21	0.26
D00007796	0.470	6	0.15	0.88	<1	439	0.41	0.12
D00007797	0.385	<5	0.10	0.48	3	267	1.35	0.04
D00007798	0.350	11	0.11	0.86	3	310	0.34	0.13
D00007799	0.285	5	0.11	1.09	21	280	0.18	0.05
D00007800	0.110	<5	0.01	0.01	1	<5	<0.02	<0.01
D00007801	0.320	<5	0.07	0.87	<1	297	0.13	0.13
D00007802	0.330	8	0.16	0.48	4	264	0.50	0.06
D00007803	0.345	<5	0.10	1.03	15	250	0.39	0.07
D00007804	0.345	5	0.05	1.27	9	137	0.19	0.11
*Rep D00007761		6						
*Std OREAS151B		69						
*Std OXK119		3710						
*Std AMIS0282		195						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00007732		0.01	1.09	8	98	0.25	0.24
*Rep D00007793		0.18	0.82	16	366	0.21	0.13
*Std OREAS920		0.07	2.53	5	84	0.64	0.35
*Std OREAS151B		0.58	2.66	35	73	0.43	1.42
*Std OREAS902		0.28	0.50	617	14	8.85	4.04
*Std OREAS920		0.09	2.44	4	78	0.76	0.34
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007781	<5						
*Rep D00007796	13						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007729	0.76	53.2	6.8	30	41.8	2.86	4.5	0.04
D00007730	0.35	43.3	16.7	41	20.1	2.46	5.9	0.03
D00007731	0.31	31.2	9.4	46	11.6	2.12	6.3	0.03
D00007732	0.26	42.6	7.7	31	12.1	2.18	4.1	0.01
D00007733	0.49	59.2	2.7	13	14.3	1.56	3.7	0.26
D00007734	0.14	28.2	1.8	7	9.1	0.87	2.7	0.03
D00007735	1.26	26.9	8.3	36	16.2	1.89	2.7	0.06
D00007736	0.42	26.9	7.1	41	11.1	2.29	6.1	0.03
D00007737	0.62	59.9	6.9	15	14.4	1.60	2.4	0.04
D00007738	0.57	46.9	17.2	46	33.7	3.40	4.4	0.08
D00007739	0.43	42.7	7.1	22	22.9	1.92	4.2	0.03
D00007740	0.21	19.0	2.5	6	12.0	0.75	2.0	0.02
D00007741	0.20	19.9	3.5	13	9.9	1.15	2.4	0.03
D00007742	0.17	42.2	3.6	12	12.6	1.63	2.4	0.03
D00007743	0.44	55.7	8.0	24	22.1	2.73	4.4	0.04
D00007744	0.44	42.1	6.4	23	19.2	1.78	3.3	0.04
D00007745	0.65	41.0	6.2	11	47.6	1.88	1.9	0.05
D00007746	0.32	63.0	6.7	3	8.2	1.21	1.5	0.06
D00007747	2.43	56.7	12.2	8	20.4	1.80	2.4	0.08
D00007748	1.15	42.7	4.3	11	12.8	1.28	2.8	0.05
D00007749	1.37	72.9	8.9	7	33.8	0.88	1.9	0.07
D00007750	3.78	108	5.2	8	49.1	1.97	2.6	0.07
D00007751	1.22	78.3	6.6	12	23.5	2.28	3.2	0.04
D00007752	0.86	76.0	10.2	14	12.5	2.68	4.5	0.03
D00007753	1.61	33.8	2.1	12	8.4	0.93	2.6	0.08
D00007754	0.86	50.2	9.4	61	39.3	2.33	2.8	0.13
D00007755	0.35	57.8	14.0	17	99.8	2.88	3.2	0.04
D00007756	0.10	49.4	16.3	18	81.1	2.59	4.1	0.05
D00007757	0.25	46.3	9.5	20	61.2	2.66	4.1	0.05
D00007758	0.16	57.9	11.6	25	58.1	2.80	5.3	0.10
D00007759	0.20	33.3	8.0	18	51.4	1.87	3.2	<0.01
D00007760	<0.01	0.87	<0.1	<1	0.6	0.02	<0.1	<0.01
D00007761	0.27	35.6	5.1	24	26.1	1.87	3.5	0.04
D00007762	0.23	34.6	9.0	30	38.3	2.14	3.8	<0.01
D00007763	0.14	34.8	9.2	22	45.1	2.36	3.6	<0.01
D00007764	0.11	30.8	3.8	11	35.6	1.36	3.1	0.04
D00007765	0.20	26.9	2.9	7	26.5	0.78	2.0	0.03
D00007766	0.15	34.5	7.5	19	42.1	2.03	3.6	<0.01
D00007767	0.13	30.9	4.6	11	33.2	1.73	2.2	0.01
D00007768	0.44	36.7	4.1	5	32.6	1.24	1.3	0.02

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007769	0.11	39.6	9.5	18	51.3	2.11	3.4	<0.01
D00007770	0.09	62.6	14.6	27	107	2.63	5.3	0.03
D00007771	0.06	12.7	1.8	5	12.0	0.61	1.7	0.02
D00007772	0.05	8.05	1.9	7	10.3	0.69	2.0	0.01
D00007773	0.12	39.3	7.0	12	31.3	2.05	2.7	<0.01
D00007774	0.19	32.9	7.1	17	44.7	1.81	3.6	0.04
D00007775	0.11	38.0	9.0	19	52.8	1.92	3.1	0.06
D00007776	0.12	59.2	13.6	18	61.2	2.74	3.5	0.05
D00007777	0.15	58.2	14.3	23	94.2	3.14	4.3	0.02
D00007778	0.13	56.2	14.1	24	89.1	2.60	4.3	0.01
D00007779	0.07	37.2	7.2	15	34.0	2.20	3.9	0.02
D00007780	0.08	46.4	9.4	19	39.6	2.47	4.1	0.03
D00007781	2.37	56.7	9.3	15	105	1.74	2.6	0.06
D00007782	0.19	38.1	3.3	15	11.0	1.40	2.8	0.03
D00007783	1.12	54.2	8.7	18	14.0	1.51	2.8	0.01
D00007784	4.47	118	8.2	12	17.4	1.39	3.4	0.25
D00007785	1.13	77.9	7.2	15	12.4	1.38	2.9	0.03
D00007786	0.39	62.7	4.4	12	12.7	1.37	3.1	0.01
D00007787	0.95	56.7	6.4	12	14.5	1.35	2.2	0.03
D00007788	0.56	51.2	3.3	14	10.2	1.04	2.6	<0.01
D00007789	5.59	181	12.8	20	27.9	1.73	3.6	0.03
D00007790	1.82	248	22.2	12	14.8	1.50	4.2	<0.01
D00007791	1.04	142	31.1	227	57.3	3.85	7.6	0.02
D00007792	0.32	59.2	17.5	20	72.7	2.93	3.8	0.04
D00007793	0.18	111	24.8	14	126	3.43	3.9	<0.01
D00007794	0.11	58.0	13.2	22	76.4	2.36	3.6	<0.01
D00007795	0.71	46.8	9.6	16	59.0	1.97	3.5	0.03
D00007796	0.10	52.2	11.8	21	72.2	2.23	3.9	0.03
D00007797	0.09	39.0	10.6	14	76.0	2.90	2.9	<0.01
D00007798	0.13	55.9	14.2	16	65.1	2.47	3.6	0.05
D00007799	0.18	61.9	12.9	23	80.5	2.68	4.4	0.03
D00007800	<0.01	0.93	0.1	3	0.7	0.02	<0.1	<0.01
D00007801	0.07	38.1	6.0	6	56.9	1.83	3.9	<0.01
D00007802	0.21	38.1	9.2	14	51.6	2.23	3.4	0.04
D00007803	0.10	43.2	6.9	16	43.1	2.29	3.4	<0.01
D00007804	0.27	34.3	11.5	27	40.9	2.77	4.9	0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007732	0.24	45.2	7.6	29	12.1	2.14	4.1	0.01
*Rep D00007793	0.17	113	24.2	14	131	3.65	3.9	<0.01
*Std OREAS920	0.06	68.3	13.6	45	105	3.57	6.8	<0.01
*Std OREAS151B	0.61	15.8	10.9	28	1910	3.48	7.9	<0.01
*Std OREAS902	0.02	28.4	986	21	3140	3.06	1.4	0.06
*Std OREAS920	0.06	67.9	13.6	44	99.4	3.78	7.2	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007729	0.11	29.6	0.63	804	1.16	0.01	26.0	1090
D00007730	0.15	22.6	0.74	1070	1.14	0.02	29.8	950
D00007731	0.25	18.5	0.76	452	0.78	0.02	21.9	730
D00007732	0.19	22.2	0.55	298	1.31	0.01	21.0	810
D00007733	0.09	33.3	0.16	104	1.77	0.03	8.9	1130
D00007734	0.07	14.6	0.04	55	1.93	0.01	4.8	340
D00007735	0.20	14.3	0.40	282	1.88	0.01	24.8	510
D00007736	0.16	17.1	0.72	238	0.94	0.02	18.3	1180
D00007737	0.10	31.2	0.22	401	2.33	0.01	14.4	440
D00007738	0.30	30.0	0.67	480	1.14	0.01	38.6	870
D00007739	0.10	23.2	0.36	237	2.63	0.02	23.8	680
D00007740	0.05	10.3	0.12	73	0.90	0.03	7.2	430
D00007741	0.08	10.8	0.21	126	1.37	0.02	10.0	530
D00007742	0.13	23.7	0.18	110	3.62	0.02	12.5	540
D00007743	0.16	30.8	0.33	364	4.55	0.02	20.8	680
D00007744	0.11	22.9	0.33	239	2.19	0.01	19.7	500
D00007745	0.08	22.4	0.12	175	4.32	0.01	27.3	450
D00007746	0.10	32.8	0.04	242	0.61	<0.01	19.5	300
D00007747	0.14	29.6	0.12	1210	1.98	0.01	21.4	550
D00007748	0.07	21.2	0.14	209	1.42	0.01	12.6	590
D00007749	0.07	35.4	0.09	814	1.64	0.01	9.9	540
D00007750	0.12	74.5	0.14	278	3.94	0.02	14.8	530
D00007751	0.18	42.5	0.24	351	4.94	0.01	13.1	720
D00007752	0.25	44.8	0.37	551	2.24	0.01	10.5	870
D00007753	0.07	20.2	0.06	87	2.18	0.01	7.8	1540
D00007754	0.05	30.5	0.65	390	3.75	0.01	36.9	1020
D00007755	0.11	28.0	0.38	1640	2.40	0.01	46.0	680
D00007756	0.13	22.3	0.38	1650	0.59	0.02	48.6	540
D00007757	0.28	23.7	0.52	1090	0.98	0.01	31.9	600
D00007758	0.15	32.7	0.42	1150	1.36	0.01	28.2	1060
D00007759	0.11	16.2	0.35	581	0.95	0.01	26.0	450
D00007760	<0.01	0.5	<0.01	<2	<0.05	0.01	<0.5	<50
D00007761	0.13	20.0	0.45	168	1.13	0.01	19.3	740
D00007762	0.17	18.8	0.59	454	0.88	0.01	28.6	810
D00007763	0.13	17.0	0.50	564	1.35	0.01	27.8	630
D00007764	0.05	20.5	0.13	224	1.25	0.02	14.6	970
D00007765	0.05	19.6	0.12	229	0.60	0.03	7.8	730
D00007766	0.10	15.7	0.34	590	1.49	0.01	25.6	660
D00007767	0.08	16.6	0.12	373	1.59	0.01	22.5	420
D00007768	0.08	18.7	0.07	379	1.33	<0.01	22.1	410

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007769	0.12	14.5	0.49	776	1.77	0.01	33.2	540
D00007770	0.11	30.7	0.82	904	0.89	0.02	53.6	630
D00007771	0.02	9.4	0.09	114	0.37	0.03	4.8	760
D00007772	0.04	4.0	0.08	103	0.39	0.03	6.9	340
D00007773	0.21	21.8	0.30	594	0.80	0.01	20.9	490
D00007774	0.09	13.2	0.36	502	1.23	0.02	23.4	930
D00007775	0.06	13.7	0.33	917	0.95	0.01	26.1	670
D00007776	0.08	33.3	0.24	1680	1.86	0.01	39.5	1200
D00007777	0.07	26.3	0.65	1540	1.62	0.01	53.0	920
D00007778	0.14	20.6	0.74	1040	1.55	0.01	48.0	750
D00007779	0.20	20.9	0.33	562	0.82	0.02	20.9	640
D00007780	0.22	28.5	0.40	776	0.94	0.02	24.4	750
D00007781	0.07	31.6	0.24	692	1.67	0.01	24.8	570
D00007782	0.04	20.1	0.19	135	1.21	0.01	12.6	410
D00007783	0.07	30.4	0.27	319	1.22	0.01	20.3	580
D00007784	0.06	53.5	0.20	963	1.65	0.01	18.1	590
D00007785	0.06	39.8	0.19	372	1.68	0.01	20.0	650
D00007786	0.07	33.4	0.16	151	2.19	0.01	12.3	560
D00007787	0.13	32.8	0.14	308	2.58	0.01	16.3	650
D00007788	0.08	30.3	0.16	181	1.09	0.02	12.7	660
D00007789	0.09	134	0.21	421	2.01	0.01	26.0	800
D00007790	0.05	134	0.17	813	2.27	0.01	27.7	790
D00007791	0.40	41.9	2.24	824	3.06	0.02	107	690
D00007792	0.08	23.1	0.31	2140	1.56	0.01	38.2	990
D00007793	0.11	45.1	0.38	2710	1.20	0.01	68.4	490
D00007794	0.14	22.5	0.56	1550	0.80	0.01	35.2	600
D00007795	0.13	16.6	0.50	566	0.75	0.01	35.7	680
D00007796	0.13	18.5	0.60	888	2.03	0.01	40.4	820
D00007797	0.10	13.8	0.13	730	2.31	0.01	48.5	710
D00007798	0.13	21.1	0.39	1780	1.50	0.01	30.5	730
D00007799	0.13	26.2	0.37	1470	1.30	0.01	37.5	620
D00007800	<0.01	0.5	<0.01	<2	0.09	0.01	1.8	<50
D00007801	0.12	17.8	0.21	1010	0.22	0.01	12.1	480
D00007802	0.05	13.1	0.18	1710	2.12	0.01	25.6	800
D00007803	0.24	24.6	0.34	555	0.96	0.02	23.6	590
D00007804	0.09	17.1	0.45	1110	1.38	0.02	29.4	840

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007732	0.19	23.3	0.55	295	1.24	0.01	19.8	760
*Rep D00007793	0.12	45.4	0.39	2680	1.18	0.01	69.0	480
*Std OREAS920	0.45	37.3	1.14	560	0.37	0.03	40.6	730
*Std OREAS151B	0.41	7.9	1.48	302	58.2	0.18	16.5	560
*Std OREAS902	0.24	15.0	2.20	491	11.6	0.02	171	680
*Std OREAS920	0.44	37.7	1.14	548	0.42	0.03	38.9	780
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50

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Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007729	41.4	17.3	0.16	3.1	0.5	14.0	10.3	0.06
D00007730	12.7	19.4	0.10	3.7	0.8	25.0	6.0	0.10
D00007731	14.5	35.2	0.10	3.7	1.0	13.4	6.6	0.13
D00007732	18.4	23.3	0.34	2.6	0.5	11.4	10.1	0.09
D00007733	24.4	10.7	0.44	0.7	<0.3	8.9	0.6	0.03
D00007734	28.6	8.6	5.57	0.5	0.7	3.4	1.0	0.04
D00007735	19.3	24.9	0.47	1.5	<0.3	5.5	2.4	0.08
D00007736	11.8	17.2	0.16	2.7	1.0	10.8	2.5	0.12
D00007737	30.2	14.2	0.70	1.3	<0.3	6.5	13.2	0.04
D00007738	19.0	39.7	0.48	4.6	0.4	10.0	9.2	0.13
D00007739	34.0	14.8	0.85	1.6	0.5	9.4	2.4	0.04
D00007740	10.3	5.2	0.25	0.6	<0.3	6.4	1.0	0.02
D00007741	12.5	8.9	0.50	0.9	<0.3	5.8	1.0	0.03
D00007742	23.7	11.1	1.11	1.0	<0.3	10.0	6.4	0.03
D00007743	53.1	19.7	1.45	1.3	0.6	14.3	3.8	0.04
D00007744	48.4	14.1	1.15	1.5	0.4	10.1	7.1	0.05
D00007745	220	8.1	3.56	0.8	<0.3	14.9	6.9	0.02
D00007746	13.2	14.3	0.73	0.6	<0.3	1.4	9.2	<0.01
D00007747	23.7	17.1	1.74	1.4	<0.3	7.0	10.8	<0.01
D00007748	16.6	11.6	1.24	0.6	<0.3	5.5	1.8	0.02
D00007749	101	7.9	0.98	0.6	<0.3	4.7	5.4	<0.01
D00007750	55.0	12.6	1.58	1.3	0.3	10.8	15.7	<0.01
D00007751	67.1	24.8	0.72	1.6	0.4	17.0	7.2	0.04
D00007752	32.1	48.0	0.51	2.5	0.5	14.8	6.0	0.08
D00007753	23.0	14.3	0.52	0.6	0.5	8.2	0.8	0.01
D00007754	308	6.4	2.44	3.1	<0.3	14.6	10.5	0.04
D00007755	41.3	14.3	0.30	2.3	<0.3	12.8	7.2	0.04
D00007756	5.4	21.9	0.18	2.1	<0.3	10.9	1.8	0.04
D00007757	15.2	29.6	0.11	1.8	<0.3	31.8	4.2	0.07
D00007758	26.0	23.1	0.18	1.4	0.4	27.6	0.6	0.04
D00007759	11.9	12.6	0.23	1.7	<0.3	12.1	3.1	0.05
D00007760	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.2	<0.01
D00007761	53.1	14.6	1.18	2.3	0.4	10.1	6.6	0.07
D00007762	10.2	17.6	0.25	2.6	0.4	14.0	5.8	0.08
D00007763	12.0	15.1	0.26	2.0	0.3	17.1	3.5	0.06
D00007764	10.1	8.0	0.10	0.4	<0.3	9.1	0.2	0.01
D00007765	3.3	6.9	0.06	0.4	<0.3	18.6	<0.1	0.02
D00007766	12.5	13.3	0.29	1.2	0.4	10.6	0.8	0.04
D00007767	19.0	10.2	0.22	1.1	<0.3	10.4	2.2	0.02
D00007768	26.7	9.4	0.09	0.9	<0.3	14.5	5.7	<0.01

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007769	12.1	18.0	0.20	1.7	<0.3	12.1	5.1	0.05
D00007770	11.4	20.6	0.28	1.9	<0.3	14.4	2.2	0.04
D00007771	3.4	3.3	<0.05	0.3	<0.3	6.1	0.1	0.01
D00007772	3.6	3.4	<0.05	0.3	<0.3	5.3	<0.1	0.02
D00007773	21.7	22.0	0.07	1.5	<0.3	25.2	4.2	0.06
D00007774	8.3	14.5	0.16	0.8	0.3	8.2	0.3	0.02
D00007775	7.7	8.3	0.26	0.8	<0.3	6.2	0.5	0.03
D00007776	20.6	16.4	0.21	3.1	<0.3	23.2	5.0	0.02
D00007777	17.7	11.7	0.11	2.1	<0.3	19.2	5.1	0.02
D00007778	12.4	19.1	0.16	2.0	<0.3	16.5	5.9	0.05
D00007779	14.8	26.5	0.06	1.2	<0.3	27.5	1.2	0.05
D00007780	17.7	28.3	0.10	1.6	<0.3	33.5	1.8	0.05
D00007781	349	8.8	4.73	2.2	<0.3	10.5	24.7	0.03
D00007782	13.3	6.5	0.85	0.7	<0.3	5.9	1.9	0.03
D00007783	18.3	7.9	0.84	1.6	<0.3	8.9	11.1	0.05
D00007784	30.1	7.9	1.71	1.8	<0.3	7.5	15.3	0.03
D00007785	40.6	7.5	1.14	1.1	<0.3	6.7	6.3	0.03
D00007786	37.1	8.1	0.84	0.7	<0.3	6.0	2.7	0.02
D00007787	51.1	12.7	0.44	0.8	<0.3	10.1	4.3	0.02
D00007788	16.3	8.2	0.28	0.6	<0.3	6.3	2.7	0.02
D00007789	42.2	9.0	0.78	2.5	0.4	12.5	18.1	0.02
D00007790	39.0	7.6	1.15	1.6	<0.3	8.5	17.9	0.02
D00007791	90.9	30.4	0.97	8.8	0.4	17.0	10.2	0.15
D00007792	11.3	9.4	0.38	1.7	<0.3	14.5	2.4	0.04
D00007793	22.1	13.7	0.13	3.0	<0.3	31.7	10.8	0.02
D00007794	11.7	16.0	0.10	2.7	<0.3	26.7	5.8	0.05
D00007795	9.9	17.8	0.10	1.2	<0.3	27.2	2.3	0.03
D00007796	18.2	22.7	0.11	1.4	<0.3	14.0	2.3	0.03
D00007797	25.5	16.0	0.16	1.1	<0.3	8.7	1.1	0.02
D00007798	13.8	17.7	0.15	1.3	<0.3	12.9	2.9	0.04
D00007799	13.4	15.4	0.34	1.4	<0.3	10.3	1.4	0.04
D00007800	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.2	<0.01
D00007801	18.5	14.8	<0.05	1.0	<0.3	22.2	1.8	0.02
D00007802	11.0	8.1	0.29	0.7	<0.3	6.6	0.4	0.02
D00007803	14.8	22.7	0.13	1.4	<0.3	31.6	3.0	0.06
D00007804	7.6	11.4	0.56	2.3	0.3	12.1	1.6	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007732	18.5	22.8	0.32	2.5	0.5	11.0	10.0	0.09
*Rep D00007793	25.4	13.9	0.16	3.0	<0.3	31.1	11.0	0.02
*Std OREAS920	20.1	27.3	0.57	3.2	1.2	17.4	16.7	0.15
*Std OREAS151B	42.3	21.1	0.51	9.6	1.1	40.7	2.8	0.08
*Std OREAS902	10.2	9.0	0.78	2.6	<0.3	21.3	5.3	<0.01
*Std OREAS920	18.5	25.3	0.55	2.8	1.0	17.2	16.4	0.13
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007729	0.13	1.18	33	0.7	10.8	356
D00007730	0.19	1.35	38	0.2	10.7	86
D00007731	0.24	1.00	43	0.3	8.40	69
D00007732	0.18	1.38	33	0.4	8.76	108
D00007733	0.24	4.29	19	0.2	14.3	77
D00007734	0.11	1.11	18	0.4	3.68	50
D00007735	0.26	1.53	26	0.2	6.12	179
D00007736	0.19	1.35	44	0.3	7.20	79
D00007737	0.22	2.94	17	0.3	10.9	191
D00007738	0.56	2.09	39	0.2	21.3	218
D00007739	0.24	2.79	27	0.4	9.27	189
D00007740	0.09	1.04	12	0.2	3.92	67
D00007741	0.12	1.23	19	4.2	3.10	68
D00007742	0.15	2.10	17	0.4	4.34	81
D00007743	0.30	5.07	28	0.3	6.89	195
D00007744	0.18	1.85	24	0.3	5.53	141
D00007745	0.21	2.87	18	0.3	5.78	274
D00007746	0.13	1.62	4	0.2	8.24	267
D00007747	0.30	3.27	10	0.4	18.9	645
D00007748	0.12	2.14	17	0.4	5.84	216
D00007749	0.15	4.26	8	0.2	14.6	294
D00007750	0.25	9.09	9	0.2	44.0	1110
D00007751	0.32	4.03	24	0.3	20.7	441
D00007752	0.44	3.17	44	0.2	20.9	203
D00007753	0.15	2.23	20	0.4	7.73	123
D00007754	0.38	2.60	24	0.3	14.2	362
D00007755	0.27	1.92	22	0.2	7.88	178
D00007756	0.19	1.22	25	0.2	4.84	110
D00007757	0.28	1.41	25	<0.1	5.72	104
D00007758	0.30	1.71	34	0.2	9.54	90
D00007759	0.16	1.06	24	0.4	4.90	102
D00007760	<0.02	0.09	<1	<0.1	0.68	1
D00007761	0.20	1.67	24	0.2	7.94	163
D00007762	0.17	1.15	32	0.2	8.18	81
D00007763	0.16	1.10	29	0.2	5.46	87
D00007764	0.10	1.03	20	0.1	5.38	44
D00007765	0.07	1.14	14	<0.1	7.73	27
D00007766	0.15	1.10	29	0.3	4.62	74
D00007767	0.13	1.35	17	0.1	4.88	86
D00007768	0.12	1.81	9	<0.1	4.03	78

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007769	0.16	0.84	21	0.2	5.41	83
D00007770	0.15	1.26	28	0.2	7.03	127
D00007771	0.06	0.54	8	0.1	3.10	14
D00007772	0.04	0.32	14	<0.1	1.24	16
D00007773	0.24	1.25	17	0.1	5.61	78
D00007774	0.12	1.08	22	0.3	4.12	70
D00007775	0.11	0.92	24	0.2	3.15	63
D00007776	0.26	1.85	23	0.2	15.6	103
D00007777	0.18	1.39	24	0.1	9.66	118
D00007778	0.16	1.09	24	<0.1	6.26	111
D00007779	0.26	1.22	20	<0.1	4.70	66
D00007780	0.27	1.39	24	<0.1	7.06	78
D00007781	0.16	5.78	17	0.2	25.2	606
D00007782	0.11	1.39	21	0.3	5.02	70
D00007783	0.12	2.11	21	0.2	11.0	680
D00007784	0.12	4.00	15	0.3	27.1	1930
D00007785	0.12	3.05	17	0.2	13.4	637
D00007786	0.13	3.17	18	0.2	12.0	155
D00007787	0.20	2.75	18	0.3	13.8	177
D00007788	0.12	2.00	12	0.2	11.7	159
D00007789	0.19	3.10	15	0.3	38.7	690
D00007790	0.38	4.00	15	0.4	47.4	360
D00007791	1.45	2.75	81	0.2	16.6	673
D00007792	0.16	1.37	27	0.2	6.19	172
D00007793	0.30	1.54	20	<0.1	8.80	190
D00007794	0.16	0.97	24	<0.1	8.71	74
D00007795	0.10	0.80	15	<0.1	2.93	144
D00007796	0.13	0.88	19	<0.1	2.83	90
D00007797	0.15	1.52	21	0.1	4.08	118
D00007798	0.16	1.23	20	<0.1	6.83	72
D00007799	0.22	1.05	27	0.3	3.93	85
D00007800	<0.02	0.08	<1	<0.1	0.62	2
D00007801	0.12	0.62	11	<0.1	7.17	82
D00007802	0.11	0.94	25	0.2	3.03	70
D00007803	0.33	1.09	19	<0.1	4.49	72
D00007804	0.15	0.89	37	0.4	4.63	93

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Final : VC172768 Order: PO# BMC17-01008

Report File No.: 0000024734

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007732	0.19	1.32	32	0.2	8.20	105
*Rep D00007793	0.29	1.56	19	<0.1	8.98	192
*Std OREAS920	0.18	2.36	24	0.6	20.0	113
*Std OREAS151B	0.15	0.66	143	0.7	11.4	257
*Std OREAS902	0.25	2.39	7	2.2	7.43	6
*Std OREAS920	0.15	2.25	22	0.5	17.4	109
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172769
[Report File No.: 0000025230]

Date: October 12, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01008
Project No.: KZK
Samples: 66
Received: Aug 28, 2017
Pages: Page 1 to 12
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
66	G_LOG02	Pre-preparation processing, sorting, logging, boxing
66	G_WGH79	Weighing of samples and reporting of weights
66	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
66	GE_IMS14B	Aqua Regia digestion/ICP-MS package
41	GE_ISE15V	Paste pH on Soils and/or Sediments sample

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007805	0.390	8	0.21	0.85	8	406	0.39	0.04
D00007806	0.455	14	4.78	0.38	45	80	0.78	0.05
D00007807	0.420	7	0.11	0.73	3	866	0.16	0.07
D00007808	0.215	<5	0.15	1.19	8	365	0.22	0.12
D00007810	0.325	7	0.15	1.13	13	339	0.41	0.07
D00007811	0.455	7	1.59	1.28	50	127	0.48	0.31
D00007812	0.470	<5	0.74	0.39	77	72	0.75	0.05
D00007813	0.285	<5	0.27	0.45	13	91	0.74	0.10
D00007814	0.340	<5	0.17	0.23	4	53	0.55	0.05
D00007815	0.525	<5	0.37	0.74	30	115	0.54	0.16
D00007816	0.375	5	0.07	0.36	10	45	0.48	0.02
D00007817	0.555	<5	0.52	0.86	14	95	0.87	0.08
D00007818	0.395	<5	0.09	0.73	8	48	0.30	0.07
D00007819	0.490	<5	0.27	0.83	12	73	0.37	0.11
D00007820	0.475	6	0.28	0.88	12	70	0.36	0.11
D00007821	0.515	<5	0.21	0.73	16	61	0.46	0.04
D00007822	0.545	<5	0.75	0.81	24	98	0.49	0.06
D00007823	0.530	<5	0.87	0.82	51	531	0.53	0.06
D00007824	0.415	<5	0.61	0.47	75	513	0.32	0.04
D00007825	0.245	7	1.23	0.84	141	300	0.41	0.29
D00007826	0.445	14	1.28	0.93	85	232	0.74	0.05
D00007827	0.240	6	1.29	0.86	30	87	0.38	0.05
D00007828	0.420	<5	0.25	0.98	6	43	0.43	0.08
D00007829	0.565	10	0.84	1.14	26	301	0.49	0.15
D00007830	0.530	7	0.25	1.62	18	90	0.22	0.31
D00007831	0.240	<5	0.47	0.35	4	78	0.16	0.07
D00007832	0.665	<5	0.33	1.99	14	137	0.39	0.33
D00007833	0.175	7	2.23	2.42	25	263	0.44	0.20
D00007834	0.230	6	0.95	1.55	23	210	0.40	0.55
D00007835	0.450	6	0.81	2.21	20	376	0.50	0.49
D00007836	0.705	<5	0.18	1.17	9	92	0.31	0.52
D00007837	0.235	<5	1.01	1.01	9	181	0.26	0.61
D00007838	0.305	<5	0.39	1.07	13	96	0.33	0.38
D00007839	0.310	<5	0.37	1.30	15	117	0.33	0.61
D00007840	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00007841	0.180	6	0.38	1.15	15	190	0.41	0.85
D00007842	0.280	<5	0.48	1.64	16	285	0.32	0.86
D00007843	0.290	7	0.46	1.50	18	328	0.30	0.98
D00007844	0.260	<5	0.41	1.45	26	310	0.32	0.83
D00007845	0.560	8	0.79	1.36	19	63	0.54	0.22

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007846	0.485	11	0.45	2.12	17	468	0.49	0.40
D00007847	0.500	7	0.27	2.05	25	246	0.68	0.34
D00007848	0.530	13	0.83	1.60	23	132	0.56	0.27
D00007849	0.420	32	1.92	1.71	57	392	1.02	0.49
D00007850	0.610	76	1.12	1.26	39	308	0.70	0.39
D00007851	0.430	15	1.20	1.53	33	392	0.66	0.62
D00007852	0.290	<5	0.73	2.03	18	441	0.43	0.95
D00007853	0.410	12	3.03	1.61	67	369	1.02	0.87
D00007854	0.410	16	2.65	2.04	133	404	1.05	0.88
D00007855	0.255	28	2.61	1.10	79	284	1.57	0.90
D00007856	0.330	18	1.07	1.42	66	330	1.00	0.93
D00007857	0.520	16	0.38	0.83	16	144	1.70	0.18
D00007858	0.340	23	0.21	0.62	26	130	0.91	0.42
D00007859	0.260	9	0.80	1.42	28	280	0.71	0.85
D00007860	0.365	13	1.62	0.98	54	392	0.99	0.45
D00007861	0.345	<5	0.53	2.20	19	481	0.46	0.42
D00007862	0.505	<5	0.14	0.35	16	29	0.80	0.02
D00007863	0.245	7	0.42	0.89	20	205	0.43	0.79
D00007864	0.465	11	1.87	1.52	48	333	0.97	1.06
D00007865	0.285	26	1.63	1.03	52	195	0.98	0.50
D00007866	0.360	<5	0.66	1.29	23	309	0.63	1.09
D00007867	0.430	30	3.29	1.80	80	358	1.43	0.64
D00007868	0.350	16	2.26	1.67	110	927	1.01	0.69
D00007869	0.310	25	2.62	1.74	112	443	1.25	0.54
D00007870	0.365	10	2.18	1.94	99	329	0.65	0.42
D00007871	0.595	37	2.33	2.31	59	230	1.53	0.49
*Std OREAS151B		64						
*Std OXK119		3530						
*Std AMIS0282		186						
*Blk BLANK		<5						
*Blk BLANK		<5						
*Rep D00007855			2.75	1.08	85	289	1.56	0.94
*Rep D00007862			0.15	0.35	14	28	0.80	0.02
*Std OREAS920			0.10	2.66	5	85	0.66	0.35
*Std OREAS151B			0.56	2.47	34	70	0.40	1.38
*Std OREAS902			0.28	0.47	587	14	8.76	3.89
*Blk BLANK			<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK			<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007815		<5						
*Rep D00007836		<5						

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Element	@Au
Method	GE_FAA313
Det.Lim.	5
Units	ppb
*Rep D00007871	49

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007805	0.19	69.6	18.9	18	107	3.36	4.1	0.09
D00007806	0.19	36.0	2.8	8	46.4	1.81	1.7	0.31
D00007807	0.36	76.1	19.0	15	78.8	2.76	3.5	0.03
D00007808	0.16	56.3	10.7	19	47.7	2.79	4.5	0.02
D00007810	0.31	79.9	21.2	24	129	3.57	4.7	0.07
D00007811	1.11	93.0	11.1	91	38.2	2.60	4.7	0.16
D00007812	0.51	98.0	5.6	6	11.3	1.71	2.1	0.04
D00007813	0.70	84.6	6.6	11	15.5	1.12	3.1	0.06
D00007814	0.37	95.7	3.3	2	8.1	0.55	1.5	0.02
D00007815	3.36	136	9.2	20	15.8	2.01	3.2	0.03
D00007816	0.24	33.7	1.8	8	7.4	1.02	2.6	0.03
D00007817	0.53	92.1	6.6	13	16.3	1.69	3.6	0.06
D00007818	0.41	56.9	4.9	13	7.9	1.29	3.3	0.03
D00007819	1.57	76.0	18.2	15	17.3	1.37	3.3	0.06
D00007820	1.45	79.7	17.2	14	17.0	1.42	3.4	0.05
D00007821	0.60	46.9	5.7	13	19.7	1.59	2.9	0.03
D00007822	0.61	44.1	3.9	12	23.4	1.78	3.0	0.52
D00007823	0.51	46.1	5.2	20	30.2	2.23	3.4	0.18
D00007824	0.30	38.7	1.7	11	16.9	1.62	2.6	0.07
D00007825	2.50	39.5	15.4	34	38.3	2.53	2.4	0.33
D00007826	0.36	43.8	6.2	34	50.9	2.27	2.8	0.37
D00007827	0.64	23.0	2.9	9	20.4	1.12	2.8	0.23
D00007828	0.09	23.3	4.1	30	10.3	2.30	9.6	0.01
D00007829	4.10	46.9	12.4	30	75.4	1.95	5.6	0.19
D00007830	0.91	32.9	13.6	67	32.7	2.41	5.0	0.04
D00007831	2.37	25.7	9.9	12	27.4	0.71	2.1	0.03
D00007832	1.20	48.7	11.4	64	30.6	3.04	7.5	0.06
D00007833	2.78	90.9	7.1	60	67.9	3.28	9.5	0.55
D00007834	1.79	43.8	7.9	45	42.1	2.47	6.1	0.20
D00007835	4.56	59.2	13.6	60	67.3	3.52	8.2	0.13
D00007836	0.36	42.1	8.5	38	16.2	2.19	4.9	0.02
D00007837	1.28	37.1	5.4	25	25.8	1.56	4.6	0.06
D00007838	0.37	29.3	4.9	29	12.5	1.90	4.8	0.05
D00007839	0.63	35.2	8.3	32	20.5	2.48	5.0	0.04
D00007840	<0.01	0.99	<0.1	<1	0.6	0.02	<0.1	<0.01
D00007841	1.05	46.4	7.7	26	28.9	2.42	4.8	0.07
D00007842	0.35	39.5	11.0	42	29.3	3.40	6.3	0.04
D00007843	0.66	57.4	9.4	35	43.3	3.04	5.6	0.05
D00007844	0.64	41.5	9.0	37	39.5	3.06	5.5	0.03
D00007845	0.28	31.0	6.4	22	20.6	2.91	5.6	0.05

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007846	0.66	45.2	10.2	41	33.4	4.02	8.3	0.04
D00007847	0.78	70.6	17.3	63	75.3	4.46	7.8	0.06
D00007848	0.70	54.8	11.4	35	50.2	3.38	6.5	0.09
D00007849	1.09	64.7	13.4	36	49.0	3.80	6.5	0.20
D00007850	0.76	40.1	8.6	27	37.6	2.79	4.9	0.15
D00007851	1.12	47.5	11.4	36	61.4	3.24	5.7	0.12
D00007852	1.37	46.9	13.3	55	59.8	4.09	7.5	0.05
D00007853	2.39	68.2	13.1	36	54.6	3.58	5.9	0.15
D00007854	4.79	72.9	17.3	58	113	4.13	6.3	0.39
D00007855	3.91	41.8	9.0	24	137	3.43	4.3	0.23
D00007856	1.56	37.5	11.6	38	86.9	3.46	5.7	0.13
D00007857	0.63	67.5	5.2	5	42.1	2.30	3.3	0.02
D00007858	2.29	37.7	5.8	24	27.0	2.09	4.4	0.04
D00007859	1.83	47.5	10.1	31	49.2	3.62	5.4	0.10
D00007860	2.44	53.6	9.3	27	70.7	3.18	3.7	0.16
D00007861	1.41	27.1	27.7	47	51.5	8.25	6.8	0.05
D00007862	0.16	53.5	1.8	5	9.7	1.24	3.2	<0.01
D00007863	3.07	23.5	6.2	21	24.8	1.90	3.8	0.07
D00007864	4.80	42.9	7.8	41	94.3	2.88	5.9	0.46
D00007865	2.46	35.9	7.7	28	51.1	2.29	4.0	0.19
D00007866	3.18	34.5	10.3	40	48.9	2.98	6.6	0.09
D00007867	5.73	58.4	12.1	47	87.8	3.47	6.6	0.60
D00007868	12.8	66.4	13.5	42	76.7	4.82	6.3	0.48
D00007869	5.97	63.1	9.1	43	80.9	4.89	6.1	0.53
D00007870	19.4	90.5	24.0	42	189	3.64	6.2	0.59
D00007871	11.0	81.4	14.4	58	177	4.20	7.2	0.25
*Rep D00007855	4.05	40.8	9.1	23	143	3.49	4.2	0.25
*Rep D00007862	0.18	52.4	1.9	5	9.8	1.26	3.4	0.01
*Std OREAS920	0.06	75.9	13.5	48	98.6	3.81	7.7	<0.01
*Std OREAS151B	0.59	16.7	10.2	29	1960	3.41	7.7	0.02
*Std OREAS902	0.03	29.9	993	22	3330	3.08	1.5	0.03
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007805	0.07	29.3	0.30	3300	2.60	0.01	56.5	880
D00007806	0.09	23.9	0.14	294	3.00	0.01	11.8	290
D00007807	0.10	30.9	0.34	3410	0.86	0.01	57.5	600
D00007808	0.13	29.2	0.44	1050	1.20	0.02	34.4	690
D00007810	0.06	34.4	0.54	3530	2.90	0.01	65.2	860
D00007811	0.06	63.1	0.99	330	3.51	0.02	46.1	970
D00007812	0.06	56.8	0.11	285	3.63	0.02	12.4	410
D00007813	0.13	29.7	0.10	236	2.27	0.01	15.1	910
D00007814	0.07	40.2	0.03	96	1.31	0.01	6.5	280
D00007815	0.19	57.9	0.28	787	2.05	0.01	29.6	600
D00007816	0.12	17.3	0.04	88	1.93	0.01	6.3	560
D00007817	0.08	46.4	0.18	305	3.49	0.02	14.8	810
D00007818	0.05	30.5	0.18	196	1.51	0.01	12.0	610
D00007819	0.05	35.9	0.23	625	1.39	0.01	27.4	710
D00007820	0.06	39.5	0.24	580	1.39	0.02	28.7	720
D00007821	0.06	24.6	0.17	257	1.89	0.02	16.1	520
D00007822	0.08	22.7	0.18	120	3.04	0.02	15.2	650
D00007823	0.11	24.5	0.20	125	4.96	0.02	28.7	1020
D00007824	0.15	22.4	0.08	41	3.45	0.02	8.0	710
D00007825	0.12	19.2	0.33	481	3.60	0.02	87.0	820
D00007826	0.19	23.6	0.38	114	4.91	0.01	32.8	530
D00007827	0.07	12.6	0.13	110	3.08	0.03	10.9	1090
D00007828	0.11	11.8	0.41	131	1.01	0.01	10.6	240
D00007829	0.20	27.7	0.43	319	1.59	0.02	17.3	630
D00007830	0.26	16.9	1.15	422	0.70	0.02	27.4	900
D00007831	0.07	14.1	0.15	669	0.59	0.03	6.2	410
D00007832	0.36	29.2	1.20	426	1.23	0.02	33.5	1010
D00007833	0.42	110	0.80	204	1.89	0.03	31.4	1200
D00007834	0.27	30.0	0.81	294	1.76	0.03	24.8	770
D00007835	0.42	35.5	1.07	609	1.89	0.02	34.2	920
D00007836	0.20	19.0	0.76	370	0.67	0.02	19.7	1190
D00007837	0.14	24.1	0.48	361	0.72	0.03	14.7	650
D00007838	0.11	15.3	0.56	156	0.97	0.02	13.0	820
D00007839	0.14	19.2	0.75	337	1.00	0.02	18.8	1010
D00007840	<0.01	0.5	<0.01	<2	<0.05	0.01	<0.5	<50
D00007841	0.12	28.5	0.57	537	1.09	0.02	15.6	850
D00007842	0.08	22.2	0.96	524	1.65	0.02	26.3	1000
D00007843	0.12	36.3	0.79	510	1.76	0.02	25.2	1050
D00007844	0.09	25.2	0.84	420	1.66	0.02	25.2	830
D00007845	0.09	16.1	0.61	288	1.32	0.01	12.1	1060

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007846	0.13	21.9	1.02	392	2.19	0.02	22.1	720
D00007847	0.12	39.7	1.19	663	1.65	0.02	40.9	1340
D00007848	0.13	33.8	0.94	474	1.31	0.02	24.8	1150
D00007849	0.15	27.5	0.94	800	1.88	0.01	22.6	1040
D00007850	0.12	21.8	0.69	381	1.45	0.01	16.3	970
D00007851	0.14	29.3	0.78	467	1.63	0.02	26.8	890
D00007852	0.24	29.4	1.18	604	1.69	0.02	33.8	1290
D00007853	0.23	36.2	0.84	692	1.44	0.02	22.8	920
D00007854	0.27	41.7	1.12	1260	2.58	0.02	35.1	800
D00007855	0.17	23.3	0.59	562	1.71	0.02	18.3	810
D00007856	0.15	15.8	0.82	641	1.34	0.02	21.4	790
D00007857	0.16	31.6	0.44	714	1.84	0.01	4.2	580
D00007858	0.11	19.3	0.28	485	1.69	0.02	12.3	530
D00007859	0.13	28.4	0.76	527	1.64	0.02	20.8	900
D00007860	0.17	26.9	0.59	454	1.81	0.01	18.4	880
D00007861	0.85	12.8	1.24	1830	1.90	0.02	27.8	1320
D00007862	0.04	26.4	0.02	54	2.11	0.01	3.0	230
D00007863	0.08	11.5	0.39	474	1.00	0.02	12.2	670
D00007864	0.20	25.2	0.68	340	1.18	0.02	27.6	880
D00007865	0.13	17.7	0.56	378	1.01	0.02	16.4	970
D00007866	0.23	14.2	0.69	453	0.96	0.02	21.8	680
D00007867	0.21	33.5	0.87	458	1.75	0.02	31.7	900
D00007868	0.23	37.9	0.77	8520	3.16	0.02	38.3	690
D00007869	0.21	40.7	0.75	1810	1.00	0.02	26.5	740
D00007870	0.23	59.0	0.68	1270	2.42	0.02	34.6	880
D00007871	0.36	52.7	1.15	801	1.54	0.02	53.1	780
*Rep D00007855	0.18	23.2	0.59	583	1.81	0.01	18.9	840
*Rep D00007862	0.04	26.4	0.02	53	2.12	<0.01	3.3	230
*Std OREAS920	0.50	40.6	1.20	567	0.39	0.03	40.7	830
*Std OREAS151B	0.44	7.9	1.56	293	58.3	0.17	15.6	570
*Std OREAS902	0.22	13.5	2.18	465	11.6	0.01	169	630
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007805	25.5	11.0	0.35	1.6	<0.3	12.0	1.0	0.01
D00007806	2050	6.3	3.23	1.1	0.3	15.0	11.1	0.01
D00007807	11.1	11.3	0.29	2.7	<0.3	19.3	5.8	0.03
D00007808	14.3	13.4	0.16	1.6	<0.3	30.8	2.4	0.02
D00007810	35.6	9.6	0.28	2.4	<0.3	17.0	4.4	0.02
D00007811	120	7.1	1.78	4.5	0.4	18.3	16.5	0.06
D00007812	45.6	6.2	1.34	1.0	0.3	10.3	22.2	0.01
D00007813	27.6	18.2	1.23	0.5	0.5	9.3	1.1	<0.01
D00007814	14.0	4.6	0.35	0.5	<0.3	10.5	12.1	<0.01
D00007815	41.0	20.9	0.52	2.0	0.3	10.0	15.3	0.05
D00007816	11.4	11.4	0.58	0.4	0.4	4.1	0.8	0.02
D00007817	73.9	7.5	1.51	1.3	<0.3	8.6	9.6	0.03
D00007818	20.1	6.4	0.75	0.7	<0.3	6.0	1.4	0.02
D00007819	29.1	6.6	0.79	2.0	<0.3	8.0	9.9	0.03
D00007820	25.3	6.6	0.83	2.1	<0.3	8.4	10.1	0.04
D00007821	43.9	6.9	1.37	1.1	<0.3	6.3	5.1	0.02
D00007822	118	7.3	3.70	1.2	<0.3	10.8	7.4	0.03
D00007823	103	9.5	3.97	1.4	<0.3	44.0	4.6	0.03
D00007824	139	6.2	3.51	0.7	<0.3	21.1	2.4	0.02
D00007825	133	13.3	5.76	1.6	<0.3	24.4	3.3	0.03
D00007826	132	18.1	6.52	1.9	0.3	14.8	16.2	0.05
D00007827	60.7	7.6	3.51	0.6	<0.3	9.2	0.9	0.02
D00007828	12.5	13.0	0.27	2.0	1.3	3.9	4.8	0.21
D00007829	65.7	32.5	1.70	2.2	0.9	12.1	2.2	0.07
D00007830	29.5	25.6	0.88	3.1	0.5	10.0	4.9	0.15
D00007831	44.1	8.4	0.25	0.5	<0.3	5.8	0.2	0.03
D00007832	26.9	35.9	0.66	4.6	0.9	12.7	6.1	0.17
D00007833	35.2	40.6	0.77	2.5	1.1	16.0	1.2	0.07
D00007834	32.2	26.4	1.30	3.3	0.8	19.9	2.2	0.08
D00007835	43.8	50.7	1.52	5.3	1.1	22.8	8.7	0.14
D00007836	24.9	25.9	0.55	3.2	0.7	17.3	6.0	0.11
D00007837	16.1	16.5	0.46	1.8	0.6	25.5	1.3	0.05
D00007838	20.5	15.7	0.51	2.5	0.6	15.9	3.4	0.07
D00007839	28.4	18.9	0.50	3.3	0.5	24.8	5.1	0.07
D00007840	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.2	<0.01
D00007841	40.3	17.4	0.71	2.4	0.5	34.1	2.3	0.05
D00007842	27.0	10.9	0.39	4.2	0.4	35.1	3.0	0.06
D00007843	33.1	17.4	0.40	3.8	0.4	38.0	4.4	0.06
D00007844	34.2	12.9	0.42	3.4	0.4	35.6	2.8	0.05
D00007845	49.9	13.1	0.69	2.8	0.4	10.5	2.5	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007846	54.8	16.1	0.57	6.0	0.6	21.9	5.4	0.09
D00007847	75.5	13.2	1.29	5.5	0.5	15.0	9.0	0.08
D00007848	74.8	14.1	1.42	3.7	0.5	11.4	3.3	0.06
D00007849	179	18.6	3.60	5.0	0.6	26.0	5.7	0.07
D00007850	112	14.9	3.04	3.5	0.4	19.1	4.8	0.06
D00007851	94.8	17.9	1.83	4.2	0.5	31.7	3.5	0.06
D00007852	52.3	26.5	0.79	6.1	0.4	46.1	3.4	0.08
D00007853	246	33.9	3.73	4.1	0.7	40.8	4.8	0.10
D00007854	556	25.4	4.73	4.2	0.8	32.1	5.1	0.10
D00007855	202	24.6	5.57	3.0	0.5	33.7	3.2	0.06
D00007856	158	23.4	3.24	4.1	0.8	34.4	3.1	0.10
D00007857	205	9.7	0.79	1.5	<0.3	7.8	8.3	0.05
D00007858	41.1	17.0	1.39	1.7	0.8	16.9	2.4	0.08
D00007859	79.9	17.9	1.39	3.4	0.5	31.0	3.2	0.06
D00007860	145	19.7	3.33	3.1	0.5	19.7	7.5	0.06
D00007861	62.6	61.8	1.72	10.7	0.7	19.0	3.8	0.22
D00007862	21.8	8.5	1.04	0.4	0.5	2.2	1.8	0.03
D00007863	53.5	16.0	1.16	1.6	0.4	32.2	1.4	0.05
D00007864	115	38.3	5.91	2.8	0.9	39.7	2.3	0.07
D00007865	173	17.1	3.81	2.8	0.6	17.6	5.0	0.08
D00007866	65.5	48.5	1.34	3.1	0.8	39.1	2.7	0.15
D00007867	372	30.3	5.43	4.4	1.0	24.4	7.5	0.10
D00007868	195	34.9	4.28	3.8	0.8	32.8	5.6	0.08
D00007869	188	32.7	3.39	4.1	0.9	26.8	6.4	0.08
D00007870	432	31.7	2.01	3.9	0.8	17.2	7.6	0.08
D00007871	586	38.1	4.54	5.3	0.9	16.0	10.4	0.14
*Rep D00007855	202	25.5	5.55	3.0	0.6	34.8	3.1	0.06
*Rep D00007862	21.1	8.9	1.02	0.4	0.5	2.2	1.8	0.03
*Std OREAS920	20.7	25.8	0.62	3.4	1.2	18.1	16.3	0.16
*Std OREAS151B	39.2	18.8	0.53	10.0	1.1	38.7	2.6	0.07
*Std OREAS902	9.7	8.6	0.75	2.6	<0.3	20.3	4.6	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
D00007805	0.17	1.57	25	0.1	7.30	149	N.A.
D00007806	0.64	1.27	10	0.3	7.48	120	N.A.
D00007807	0.14	1.65	24	0.2	7.44	140	N.A.
D00007808	0.16	1.33	25	0.1	7.60	96	N.A.
D00007810	0.15	1.74	28	0.1	8.00	168	N.A.
D00007811	0.27	5.27	32	0.2	29.8	363	N.A.
D00007812	0.49	3.81	7	0.2	18.7	124	N.A.
D00007813	0.21	2.24	15	0.2	15.5	163	N.A.
D00007814	0.13	2.76	3	<0.1	15.6	84	N.A.
D00007815	0.39	4.43	23	0.3	30.8	470	N.A.
D00007816	0.10	1.60	21	0.4	6.61	60	N.A.
D00007817	0.14	5.92	19	0.4	15.6	214	N.A.
D00007818	0.11	2.01	20	0.3	9.36	228	N.A.
D00007819	0.19	4.05	22	0.4	21.6	678	N.A.
D00007820	0.20	3.85	22	0.3	22.3	689	N.A.
D00007821	0.15	3.01	19	0.3	9.26	361	N.A.
D00007822	0.19	3.32	19	0.3	9.00	311	N.A.
D00007823	0.48	3.09	29	0.4	8.97	213	N.A.
D00007824	0.36	1.28	18	0.2	3.91	76	N.A.
D00007825	0.64	2.84	21	0.1	9.83	577	N.A.
D00007826	1.09	3.15	25	0.4	8.89	258	N.A.
D00007827	0.28	3.09	16	0.2	7.95	118	N.A.
D00007828	0.12	0.60	79	0.4	3.70	46	3.39
D00007829	0.42	2.93	34	0.2	14.2	513	4.00
D00007830	0.38	0.80	42	0.2	6.85	437	3.88
D00007831	0.15	1.64	14	<0.1	4.59	75	I.S.
D00007832	0.35	1.86	57	1.1	10.5	1630	3.93
D00007833	0.50	14.6	52	0.5	43.2	716	3.96
D00007834	0.41	3.86	40	0.4	14.0	722	5.73
D00007835	0.54	6.66	57	0.4	25.0	1530	4.60
D00007836	0.23	1.41	38	0.9	8.69	114	5.73
D00007837	0.20	5.00	29	0.2	10.3	142	5.31
D00007838	0.17	1.20	29	0.2	5.66	115	4.40
D00007839	0.19	1.97	37	0.3	8.51	182	5.55
D00007840	<0.02	0.09	<1	<0.1	0.73	2	4.59
D00007841	0.17	3.51	30	0.2	12.0	193	5.09
D00007842	0.14	3.17	48	0.1	10.4	189	5.70
D00007843	0.16	3.92	41	0.2	14.3	181	5.75
D00007844	0.17	3.44	42	0.1	13.4	183	5.43
D00007845	0.14	0.76	42	0.2	6.21	172	4.11

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Element	Tl	U	V	W	Y	Zn	pH
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_ISE15V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	0
Units	ppm	ppm	ppm	ppm	ppm	ppm	pH-unit
D00007846	0.16	1.21	76	0.2	7.85	258	5.08
D00007847	0.17	1.68	55	0.2	13.9	374	4.66
D00007848	0.19	1.11	44	0.2	12.1	271	3.88
D00007849	0.27	2.49	51	0.2	11.2	750	5.01
D00007850	0.22	1.38	39	0.2	8.50	348	5.43
D00007851	0.20	2.76	46	0.1	14.6	368	5.51
D00007852	0.20	1.48	64	0.2	16.1	338	6.94
D00007853	0.31	5.20	47	0.2	13.2	579	5.64
D00007854	0.42	5.40	48	0.2	17.4	900	6.43
D00007855	0.30	6.93	32	0.2	11.2	508	6.46
D00007856	0.20	3.86	46	0.2	9.34	527	6.00
D00007857	0.11	1.01	7	0.2	5.54	485	4.88
D00007858	0.12	1.68	35	0.4	5.05	237	I.S.
D00007859	0.19	4.36	38	0.3	13.7	397	6.06
D00007860	0.24	2.19	28	0.3	10.8	474	6.42
D00007861	0.65	1.04	100	0.4	14.2	471	5.54
D00007862	0.09	0.68	18	0.2	2.24	65	3.62
D00007863	0.13	2.88	25	2.1	5.82	212	5.09
D00007864	0.34	10.6	42	22.5	16.6	753	5.69
D00007865	0.24	2.92	31	0.3	9.74	735	6.22
D00007866	0.16	3.35	48	0.2	9.21	397	5.48
D00007867	0.45	8.46	45	0.3	19.0	1920	5.38
D00007868	0.56	8.07	43	0.3	23.8	2110	5.53
D00007869	0.49	4.68	39	0.3	29.5	2650	5.26
D00007870	1.18	6.77	43	0.3	33.7	3410	5.18
D00007871	0.94	3.70	51	0.6	28.5	5150	I.S.
*Rep D00007855	0.29	7.13	33	0.2	11.7	534	
*Rep D00007862	0.09	0.64	18	0.2	2.24	64	
*Std OREAS920	0.18	2.39	26	0.6	20.7	115	
*Std OREAS151B	0.13	0.64	155	0.6	11.3	246	
*Std OREAS902	0.26	2.36	7	2.6	7.22	7	
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1	
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1	

Element	pH
Method	GE_ISE15V
Det.Lim.	0
Units	pH-unit
*Rep D00007870	5.17
*Std AMIS0267	7.97
*Blk BLANK	6.75

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Certificate of Analysis
Work Order : VC172782
[Report File No.: 0000025184]

Date: October 09, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01016
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
75	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00004601	0.280	<5	0.36	1.93	13	126	0.28	1.16
D00004602	0.345	<5	0.41	2.19	25	154	0.30	0.77
D00004603	0.250	<5	0.44	2.14	25	154	0.35	0.48
D00004604	0.245	<5	0.46	2.16	24	138	0.43	0.92
D00004605	0.180	<5	0.13	1.86	4	133	0.30	0.88
D00004606	0.265	<5	0.16	1.53	21	103	0.27	0.44
D00004607	0.235	<5	0.18	1.85	4	215	0.27	0.53
D00004608	0.375	<5	0.06	2.24	23	297	0.16	0.35
D00004609	0.415	<5	0.16	1.11	7	92	0.58	0.24
D00004610	0.355	<5	0.21	1.51	4	113	0.46	0.31
D00004611	0.380	<5	0.22	1.01	6	121	0.88	0.27
D00004612	0.460	<5	0.04	3.23	<1	342	0.04	1.01
D00004613	0.500	<5	0.27	3.21	11	677	0.47	0.66
D00004614	0.230	<5	0.09	1.87	19	114	0.26	0.24
D00004615	0.310	<5	0.13	3.38	19	560	0.35	0.74
D00004616	0.320	<5	0.08	1.42	7	95	0.35	0.40
D00004617	0.205	<5	0.95	2.21	3	320	2.22	0.43
D00004618	0.290	<5	0.27	1.89	16	151	0.53	0.45
D00004619	0.385	<5	0.37	2.60	11	118	0.44	0.47
D00004620	0.290	<5	0.36	2.45	12	111	0.40	0.52
D00004621	0.400	<5	0.53	1.19	44	244	0.59	0.94
D00004622	0.240	<5	0.68	1.12	27	405	0.60	0.65
D00004623	0.470	<5	0.38	0.75	19	372	0.46	0.36
D00004624	0.410	11	0.33	1.50	14	444	0.82	0.35
D00004625	0.205	<5	0.62	0.90	22	354	0.85	0.36
D00004626	0.260	<5	0.57	0.72	24	162	0.88	0.44
D00004627	0.390	6	0.46	0.79	12	199	0.72	0.27
D00004628	0.235	11	0.74	0.69	20	214	1.61	0.44
D00004629	0.250	<5	0.50	0.99	13	159	3.30	0.50
D00004630	0.340	<5	0.24	1.94	7	123	1.40	0.38
D00004631	0.340	<5	0.31	2.11	21	155	1.71	0.51
D00004632	0.440	<5	0.03	2.61	13	513	0.27	0.51
D00004633	0.295	<5	0.15	2.19	9	125	2.00	0.37
D00004634	0.375	<5	0.11	1.54	20	68	0.40	0.21
D00004635	0.220	5	0.13	2.32	15	355	0.92	0.31
D00004636	0.385	<5	0.20	1.62	78	573	0.43	0.52
D00004637	0.415	<5	0.36	2.10	63	107	0.67	0.75
D00004638	0.320	<5	0.20	2.27	24	125	0.85	0.64
D00004639	0.395	<5	0.08	2.27	15	444	0.32	0.41
D00004640	0.455	<5	0.09	2.39	21	369	0.32	0.50

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00004641	0.410	<5	0.24	1.15	11	155	0.83	0.30
D00004642	0.250	<5	0.54	1.23	13	175	1.94	0.20
D00004643	0.245	<5	0.27	1.01	12	182	1.40	0.47
D00004644	0.415	8	0.60	0.66	15	323	1.18	0.24
D00004645	0.400	<5	0.15	0.70	7	120	2.17	0.18
D00004646	0.275	<5	0.14	2.42	2	149	0.73	0.53
D00004647	0.360	<5	0.22	0.68	12	104	2.04	0.13
D00004648	0.290	<5	0.44	0.96	14	129	2.31	0.18
D00004649	0.405	5	0.45	1.32	13	625	1.18	0.52
D00004650	0.455	<5	0.11	3.04	25	430	0.62	0.61
D00004651	0.540	<5	0.40	1.34	1	160	0.94	0.36
D00004652	0.260	<5	0.08	1.40	1	71	0.19	0.44
D00004653	0.175	<5	0.04	1.12	7	53	0.07	0.17
D00004654	0.195	<5	0.11	1.65	15	158	0.31	0.35
D00004655	0.255	<5	0.24	1.07	8	65	0.28	0.10
D00004656	0.110	<5	0.20	1.41	8	130	0.31	0.24
D00004657	0.300	<5	0.36	3.40	30	370	0.73	0.86
D00004658	0.335	<5	0.05	0.92	8	122	0.24	0.25
D00004659	0.220	<5	0.32	1.53	33	136	0.52	0.29
D00004660	0.315	<5	0.15	1.68	39	156	0.70	0.31
D00004661	0.270	<5	0.19	0.81	13	56	0.27	0.10
D00004662	0.325	<5	1.03	1.91	18	138	0.55	0.39
D00004663	0.265	<5	0.32	1.28	8	141	0.23	0.30
D00004664	0.260	<5	0.33	2.37	9	287	0.35	0.76
D00004665	0.310	<5	0.66	1.63	25	154	0.30	0.75
D00004666	0.140	7	0.18	2.06	27	376	0.39	2.15
D00004667	0.355	<5	0.40	2.20	42	305	0.41	0.88
D00004668	0.220	<5	0.13	1.66	19	175	0.21	0.56
D00004669	0.310	6	0.29	1.47	20	125	0.37	0.79
D00004670	0.350	<5	0.08	1.19	22	83	0.25	0.05
D00004671	0.105	<5	0.59	0.87	8	253	0.30	0.45
D00004672	0.325	7	0.50	0.61	3	91	0.52	0.13
D00004673	0.110	I.S.	0.38	0.15	2	45	0.05	0.13
D00004674	0.275	<5	0.24	1.53	21	275	0.31	0.21
D00004675	0.305	<5	0.23	1.74	22	205	0.28	0.67
D00004676	0.410	<5	0.07	1.32	14	48	0.23	0.15
*Std OREAS151B		68						
*Std OXK119		3600						
*Std OREAS151B		68						
*Blk BLANK		<5						

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Final : VC172782 Order: PO# BMC17-01016

Report File No.: 0000025184

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00004621		0.53	1.10	44	233	0.57	0.90
*Rep D00004648		0.41	0.87	14	140	2.32	0.18
*Rep D00004656		0.20	1.36	7	127	0.36	0.23
*Std OREAS151B		0.57	2.53	31	71	0.40	1.40
*Std OREAS902		0.31	0.56	569	15	8.39	4.22
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00004612	<5						
*Rep D00004650	<5						
*Std OREAS920		0.09	2.23	5	74	0.58	0.31

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00004601	2.78	79.9	19.2	31	69.5	4.40	6.2	0.02
D00004602	1.06	59.6	18.4	36	97.1	5.36	7.7	0.02
D00004603	0.39	77.2	24.3	35	61.3	5.70	7.6	0.02
D00004604	0.36	75.7	20.0	34	78.1	5.75	7.3	0.02
D00004605	0.24	89.0	14.0	9	19.4	3.58	7.8	0.03
D00004606	1.64	83.4	26.0	32	42.8	4.87	6.7	0.01
D00004607	0.54	56.8	17.8	26	31.1	3.03	6.9	<0.01
D00004608	0.17	22.3	26.3	60	72.6	4.31	6.5	<0.01
D00004609	0.74	54.2	9.7	21	33.1	1.97	3.6	0.02
D00004610	1.44	104	17.1	26	32.1	3.15	5.0	0.03
D00004611	1.69	61.1	11.0	16	45.2	1.89	3.2	0.02
D00004612	0.16	29.5	27.4	28	12.9	6.01	10.0	<0.01
D00004613	0.65	74.9	30.5	80	53.7	6.88	9.6	0.04
D00004614	0.21	39.8	13.3	24	17.7	3.13	5.9	0.02
D00004615	0.52	86.5	20.7	56	20.8	6.52	12.5	0.03
D00004616	1.15	80.2	20.6	33	26.6	2.98	4.4	0.02
D00004617	2.74	114	10.4	19	109	3.87	7.1	0.01
D00004618	0.95	87.8	24.8	32	34.3	4.13	6.6	0.03
D00004619	2.62	129	31.0	64	44.4	4.73	8.7	0.03
D00004620	2.55	126	29.2	59	44.7	4.58	8.3	0.03
D00004621	5.56	86.1	33.4	63	61.9	2.99	3.4	0.05
D00004622	1.18	75.4	14.3	53	31.4	2.71	3.5	0.06
D00004623	2.92	68.1	15.3	26	44.6	2.47	2.8	0.03
D00004624	0.56	57.1	15.7	14	41.0	2.94	5.8	0.03
D00004625	0.76	70.7	12.1	15	45.3	2.81	3.5	0.07
D00004626	2.22	73.1	10.3	20	33.7	2.29	2.5	0.05
D00004627	1.97	78.6	17.2	15	73.5	2.67	2.6	0.03
D00004628	2.55	97.0	14.1	14	64.2	2.79	2.4	0.07
D00004629	3.65	86.7	14.9	19	148	3.53	3.6	0.06
D00004630	1.19	45.2	23.6	89	84.9	4.02	4.7	<0.01
D00004631	3.25	61.9	20.1	87	122	4.62	5.6	0.04
D00004632	0.41	28.9	16.4	39	18.6	4.12	6.7	<0.01
D00004633	0.26	92.8	17.4	35	73.0	4.59	8.3	0.02
D00004634	0.16	32.8	7.6	25	30.9	2.92	6.2	0.01
D00004635	0.25	79.7	12.1	31	56.8	4.34	9.3	0.02
D00004636	1.37	63.0	65.3	45	265	10.4	4.8	0.01
D00004637	2.34	70.8	20.3	44	114	5.73	6.4	0.03
D00004638	0.42	56.7	16.4	60	47.6	4.58	7.8	<0.01
D00004639	0.23	27.7	10.3	59	28.1	4.19	7.6	0.01
D00004640	0.25	30.6	16.8	86	24.3	4.27	7.7	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00004641	1.93	62.6	16.6	36	58.0	2.84	3.3	0.02
D00004642	2.78	78.3	15.7	28	54.1	3.79	4.4	0.03
D00004643	3.91	77.9	13.9	15	34.3	3.00	3.7	0.06
D00004644	1.45	76.1	8.5	8	51.9	2.66	2.8	0.06
D00004645	0.42	43.4	16.6	12	37.3	3.25	2.6	0.02
D00004646	0.74	73.1	13.6	25	19.5	4.93	9.0	0.02
D00004647	2.61	53.9	8.6	7	36.9	2.93	2.8	0.01
D00004648	1.82	56.5	4.6	9	31.7	2.82	3.4	0.04
D00004649	2.70	63.7	23.3	42	69.4	4.33	3.6	0.04
D00004650	0.45	60.5	17.7	69	66.0	6.08	10.6	<0.01
D00004651	2.84	108	6.4	4	52.7	2.38	5.0	0.01
D00004652	0.62	26.7	35.4	101	33.0	5.93	5.1	0.02
D00004653	0.91	5.68	9.9	27	9.9	2.61	4.3	0.02
D00004654	0.17	42.0	14.2	26	11.4	2.82	5.5	0.02
D00004655	0.28	19.9	4.8	19	9.7	1.92	4.9	0.02
D00004656	0.37	21.9	5.1	22	7.9	1.98	6.6	0.02
D00004657	0.61	51.8	21.3	72	34.3	6.27	12.6	0.02
D00004658	0.23	19.4	4.8	28	10.4	1.78	5.3	<0.01
D00004659	0.28	26.9	10.4	35	13.6	3.33	7.3	0.01
D00004660	0.32	34.5	11.7	42	15.9	3.84	8.4	<0.01
D00004661	0.11	18.4	3.8	16	7.3	1.65	4.4	0.01
D00004662	0.44	50.3	9.8	37	32.3	3.62	6.6	0.03
D00004663	0.13	41.7	7.9	19	8.7	1.84	5.1	0.02
D00004664	0.80	51.1	22.0	46	23.5	3.23	7.8	0.03
D00004665	0.94	40.0	10.2	35	18.9	3.16	5.8	0.02
D00004666	0.59	49.1	15.7	47	24.6	3.76	7.0	0.06
D00004667	0.18	65.1	13.3	46	28.9	4.07	7.4	0.03
D00004668	0.18	44.6	10.7	32	16.2	2.90	6.0	0.02
D00004669	1.60	59.0	11.9	26	18.9	3.12	4.8	0.03
D00004670	0.81	42.0	5.4	25	10.3	2.47	5.5	<0.01
D00004671	2.81	54.2	19.9	15	10.1	2.99	3.9	0.09
D00004672	0.90	45.2	3.9	9	12.6	1.63	3.9	0.03
D00004673	2.02	7.57	2.1	6	5.1	0.53	0.9	0.09
D00004674	0.23	93.3	8.3	21	17.4	2.84	5.1	0.04
D00004675	0.31	38.3	8.8	33	19.2	3.18	5.8	0.02
D00004676	0.16	20.1	6.1	25	9.6	2.39	5.9	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00004621	5.26	82.8	32.4	61	59.7	2.91	3.4	0.05
*Rep D00004648	1.86	56.3	4.9	11	31.0	2.83	3.1	0.04
*Rep D00004656	0.34	21.4	4.7	22	7.4	1.98	6.4	0.02
*Std OREAS151B	0.63	15.5	11.3	30	1750	3.37	7.5	0.01
*Std OREAS902	0.02	31.1	995	25	2850	3.14	1.7	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Std OREAS920	0.04	68.9	15.1	40	111	3.32	6.4	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00004601	0.14	43.6	1.17	790	2.26	0.01	43.3	1130
D00004602	0.38	38.6	1.47	718	2.49	0.01	48.0	1240
D00004603	0.09	53.0	1.19	849	3.50	0.01	49.8	700
D00004604	0.08	55.8	1.33	902	4.00	0.01	46.0	860
D00004605	0.80	63.5	0.89	450	2.00	0.02	8.3	880
D00004606	0.38	44.3	0.99	680	1.60	0.01	35.2	970
D00004607	0.40	34.5	0.93	264	1.12	0.02	18.7	1280
D00004608	0.59	11.1	1.44	468	2.74	0.01	39.5	1260
D00004609	0.09	26.5	0.37	360	1.47	0.01	20.2	980
D00004610	0.21	58.2	1.02	650	2.02	0.01	38.8	1300
D00004611	0.15	31.1	0.41	343	1.26	0.01	18.8	970
D00004612	1.88	17.8	1.90	1070	0.84	0.02	8.0	2960
D00004613	1.86	43.8	2.12	1920	1.27	0.02	51.4	1530
D00004614	0.56	22.9	0.75	959	0.99	0.03	14.3	490
D00004615	1.44	48.2	1.82	1340	1.16	0.02	18.0	1020
D00004616	0.34	40.8	0.51	758	1.04	0.02	23.0	1480
D00004617	0.71	69.9	1.43	929	1.01	0.01	19.3	800
D00004618	0.58	57.8	0.89	663	1.30	0.02	24.5	1450
D00004619	0.17	81.5	1.81	1060	2.33	0.02	68.4	1330
D00004620	0.15	75.9	1.68	1020	2.41	0.02	65.2	1530
D00004621	0.19	44.5	0.93	773	3.37	0.01	68.1	920
D00004622	0.16	35.2	0.69	917	2.33	0.01	40.9	520
D00004623	0.16	34.5	0.42	1210	2.02	0.01	35.9	550
D00004624	0.13	29.5	1.06	1380	1.78	0.01	21.3	710
D00004625	0.14	46.3	0.27	1010	3.77	0.02	23.4	1130
D00004626	0.15	42.8	0.28	624	3.33	0.01	21.0	750
D00004627	0.21	32.1	0.36	833	2.29	0.01	32.0	410
D00004628	0.18	52.5	0.26	700	3.99	0.01	30.6	530
D00004629	0.46	43.9	0.54	791	4.65	0.01	21.3	540
D00004630	0.44	23.5	1.58	807	2.80	0.01	34.9	630
D00004631	0.62	33.2	1.71	623	4.28	0.01	38.5	510
D00004632	0.15	16.5	1.70	968	2.02	0.01	25.3	570
D00004633	0.49	64.7	1.14	777	6.54	0.02	18.1	1060
D00004634	0.07	20.3	0.77	480	2.95	0.02	16.5	1190
D00004635	0.48	55.1	1.18	723	3.01	0.02	16.8	860
D00004636	0.40	45.6	1.17	3340	2.58	0.01	185	1080
D00004637	0.08	56.2	1.16	1100	5.76	0.01	54.6	1650
D00004638	0.16	47.0	1.26	638	4.90	0.01	31.7	1480
D00004639	0.15	14.0	1.43	483	1.81	0.01	30.7	650
D00004640	0.15	14.9	1.46	437	1.90	0.01	36.9	890

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00004641	0.25	33.7	0.75	597	2.16	0.01	25.4	600
D00004642	0.41	43.7	0.69	607	3.83	0.01	21.5	490
D00004643	0.43	33.1	0.53	722	3.55	0.01	17.9	800
D00004644	0.14	37.4	0.19	1150	3.26	0.01	26.5	500
D00004645	0.22	20.0	0.24	854	5.65	0.01	14.3	630
D00004646	0.81	38.6	1.37	704	2.80	0.01	15.4	930
D00004647	0.19	23.2	0.27	835	3.45	0.01	14.5	550
D00004648	0.15	31.6	0.30	201	4.48	0.01	12.2	640
D00004649	0.26	35.0	0.86	1740	3.44	0.01	32.4	620
D00004650	0.31	32.0	2.20	813	2.35	0.01	39.3	1320
D00004651	0.60	65.6	1.02	743	0.76	0.01	11.0	800
D00004652	0.14	10.9	0.83	668	0.45	0.01	47.1	1940
D00004653	0.20	2.9	0.55	244	1.95	0.03	7.9	560
D00004654	0.34	28.1	0.66	575	1.03	0.03	12.5	1010
D00004655	0.18	12.5	0.43	127	1.01	0.03	8.7	620
D00004656	0.16	15.2	0.45	152	1.09	0.03	8.8	730
D00004657	0.59	44.2	1.45	1360	2.24	0.02	36.4	1280
D00004658	0.12	14.0	0.50	170	1.20	0.01	12.7	290
D00004659	0.31	19.2	0.57	686	2.15	0.02	11.4	1510
D00004660	0.44	22.9	0.71	665	2.75	0.02	14.9	1270
D00004661	0.11	11.7	0.21	181	1.70	0.03	5.9	920
D00004662	0.36	44.5	0.88	288	1.60	0.02	24.3	890
D00004663	0.14	29.7	0.42	320	1.12	0.03	7.3	1030
D00004664	0.36	42.3	1.11	546	2.14	0.02	26.6	1120
D00004665	0.50	42.1	0.76	322	3.20	0.02	16.5	1090
D00004666	0.41	30.4	1.04	882	3.82	0.02	27.2	1050
D00004667	0.18	75.3	0.99	546	3.04	0.02	22.6	1510
D00004668	0.25	44.8	0.82	396	1.65	0.03	14.8	1380
D00004669	0.61	36.8	0.62	513	1.45	0.02	24.5	1410
D00004670	0.60	24.7	0.52	170	1.06	0.02	13.1	480
D00004671	0.20	36.0	0.24	2540	2.76	0.02	8.9	1000
D00004672	0.30	28.1	0.23	212	1.42	0.01	8.3	460
D00004673	0.09	4.6	0.05	432	0.94	0.03	4.0	810
D00004674	0.21	65.8	0.44	319	1.13	0.02	12.7	1030
D00004675	0.17	35.4	0.75	300	1.58	0.02	16.3	1250
D00004676	0.15	10.9	0.54	170	1.43	0.01	10.9	490

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00004621	0.18	43.8	0.89	746	3.27	0.01	64.6	910
*Rep D00004648	0.16	31.2	0.29	211	4.47	0.01	11.7	690
*Rep D00004656	0.16	15.0	0.44	148	1.01	0.03	8.5	700
*Std OREAS151B	0.44	7.8	1.52	302	58.0	0.18	14.4	570
*Std OREAS902	0.30	16.5	2.24	491	13.0	0.02	162	730
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Std OREAS920	0.43	35.5	1.04	516	0.35	0.01	38.6	670

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00004601	21.4	22.9	0.13	4.7	<0.3	35.9	7.8	0.06
D00004602	35.1	36.7	0.21	5.5	<0.3	30.0	8.1	0.10
D00004603	46.1	17.8	0.22	6.0	<0.3	25.4	8.5	0.03
D00004604	31.3	11.6	0.15	4.2	<0.3	34.3	6.7	0.03
D00004605	19.1	85.0	0.06	4.4	0.8	53.2	8.9	0.17
D00004606	64.2	35.5	0.14	7.0	0.5	23.2	11.8	0.09
D00004607	29.4	51.9	0.09	5.7	0.5	25.5	5.3	0.14
D00004608	6.7	53.9	0.14	3.3	0.6	16.4	1.8	0.22
D00004609	269	10.9	0.54	2.2	0.4	14.8	6.6	0.06
D00004610	46.6	23.1	0.15	2.5	<0.3	17.9	6.7	0.06
D00004611	188	17.8	0.29	2.0	<0.3	16.8	4.7	0.06
D00004612	3.1	118	<0.05	4.4	0.3	24.3	4.2	0.38
D00004613	31.5	259	0.14	12.2	0.4	23.7	9.5	0.48
D00004614	20.3	75.6	0.09	4.3	0.3	11.9	5.4	0.17
D00004615	29.5	95.4	0.13	8.1	0.5	19.3	8.2	0.28
D00004616	56.3	40.7	0.17	3.5	<0.3	16.2	9.6	0.12
D00004617	159	65.4	0.12	3.4	<0.3	21.3	19.9	0.13
D00004618	72.6	73.8	0.08	6.6	0.4	18.4	8.0	0.17
D00004619	75.3	24.6	0.11	7.2	0.3	24.4	9.9	0.09
D00004620	71.5	22.2	0.15	6.9	0.3	24.1	9.1	0.08
D00004621	60.1	20.3	0.51	4.1	<0.3	30.1	16.7	0.06
D00004622	61.7	27.3	0.53	2.9	<0.3	24.4	12.2	0.05
D00004623	69.0	20.9	0.39	2.3	<0.3	20.7	11.9	0.04
D00004624	28.2	15.6	0.40	6.6	<0.3	24.2	8.3	0.09
D00004625	63.9	19.1	0.68	2.0	0.3	22.1	6.2	0.03
D00004626	80.1	18.3	0.43	1.8	<0.3	20.7	9.4	0.02
D00004627	59.1	25.9	0.23	2.1	<0.3	21.0	12.3	0.05
D00004628	288	18.7	0.53	1.7	<0.3	25.3	10.5	0.02
D00004629	134	45.4	0.26	2.6	0.7	40.4	18.1	0.09
D00004630	71.7	43.4	0.21	3.3	<0.3	21.2	10.7	0.17
D00004631	93.8	63.1	0.20	4.8	0.4	27.5	13.4	0.17
D00004632	9.9	12.2	0.07	3.2	0.4	27.1	2.5	0.17
D00004633	31.9	62.8	0.09	4.8	0.7	25.5	8.7	0.15
D00004634	22.5	10.2	0.10	1.6	0.4	11.4	0.4	0.04
D00004635	18.6	59.2	0.11	5.6	0.9	20.6	6.5	0.19
D00004636	12.9	34.1	<0.05	12.1	<0.3	21.9	4.2	0.09
D00004637	46.9	13.8	0.10	4.0	<0.3	32.9	2.9	0.04
D00004638	35.9	27.0	0.07	3.3	0.5	32.2	1.4	0.06
D00004639	13.1	26.9	0.06	4.6	0.4	17.5	3.0	0.11
D00004640	30.5	24.7	0.05	4.2	0.4	20.6	2.6	0.13

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00004641	76.9	30.2	0.37	2.6	<0.3	15.4	10.4	0.08
D00004642	97.2	51.7	0.18	3.9	0.7	22.3	13.6	0.13
D00004643	56.2	38.1	0.33	2.6	0.5	28.6	10.1	0.07
D00004644	70.7	15.8	0.31	1.6	<0.3	17.5	8.6	0.02
D00004645	39.2	22.7	0.16	1.7	<0.3	19.5	3.2	0.04
D00004646	11.5	56.2	0.06	6.8	1.7	24.7	14.1	0.20
D00004647	62.8	22.6	0.20	1.4	0.4	17.2	4.9	0.03
D00004648	101	20.8	0.23	1.2	0.4	15.7	3.0	0.03
D00004649	110	30.8	0.28	3.1	<0.3	28.9	13.2	0.08
D00004650	14.2	45.4	<0.05	8.6	0.6	22.3	10.0	0.19
D00004651	120	57.9	<0.05	1.5	<0.3	23.8	20.7	0.10
D00004652	10.3	13.0	<0.05	9.1	<0.3	15.9	0.5	0.04
D00004653	5.0	20.3	0.05	1.4	<0.3	7.6	0.2	0.24
D00004654	22.0	52.5	0.10	3.3	0.3	18.0	2.1	0.14
D00004655	14.0	22.0	0.08	0.7	0.4	7.4	0.2	0.05
D00004656	22.2	19.6	0.13	1.2	0.5	15.8	0.3	0.08
D00004657	74.0	75.5	0.21	5.9	0.9	31.3	7.2	0.16
D00004658	13.3	16.9	0.11	1.7	0.6	15.8	2.0	0.17
D00004659	33.1	61.4	0.15	1.7	0.6	20.4	0.6	0.08
D00004660	35.8	86.8	0.24	2.8	0.9	21.3	1.4	0.13
D00004661	14.9	18.8	0.09	0.4	0.4	7.8	0.1	0.02
D00004662	46.2	35.4	0.06	3.1	0.5	16.8	3.1	0.09
D00004663	19.1	20.1	<0.05	1.5	<0.3	15.1	0.8	0.06
D00004664	25.0	55.0	0.08	5.4	0.6	28.2	5.2	0.14
D00004665	22.3	53.7	0.10	4.6	0.4	25.7	5.8	0.09
D00004666	20.6	50.2	0.19	4.3	0.6	73.6	5.5	0.12
D00004667	20.4	28.7	0.11	4.3	0.6	34.4	2.7	0.09
D00004668	13.1	32.6	0.06	2.6	0.4	24.0	1.9	0.08
D00004669	71.5	84.8	0.19	3.8	0.3	31.4	7.5	0.13
D00004670	19.5	69.1	0.14	3.4	0.3	6.5	3.2	0.16
D00004671	78.4	19.1	0.17	1.9	<0.3	20.8	2.9	0.04
D00004672	31.4	26.7	0.13	1.7	0.3	11.0	3.2	0.06
D00004673	6.4	4.4	0.06	0.7	<0.3	7.4	0.5	0.02
D00004674	76.5	26.9	0.22	2.6	0.3	13.9	4.8	0.04
D00004675	22.3	24.2	0.11	2.6	0.4	27.8	1.8	0.07
D00004676	12.2	19.5	0.10	2.3	0.6	6.6	3.8	0.14

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00004621	59.8	19.2	0.51	3.9	<0.3	28.6	15.8	0.06
*Rep D00004648	108	20.8	0.22	1.2	0.4	16.0	2.7	0.04
*Rep D00004656	21.5	18.8	0.13	1.1	0.5	15.0	0.3	0.08
*Std OREAS151B	38.4	19.7	0.53	9.4	1.1	41.6	2.5	0.08
*Std OREAS902	9.5	10.0	0.84	2.8	<0.3	22.1	5.2	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Std OREAS920	21.3	23.5	0.45	3.1	1.0	16.1	15.8	0.14

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00004601	0.22	2.70	41	<0.1	19.7	475
D00004602	0.40	2.64	70	<0.1	22.0	449
D00004603	0.24	2.74	54	<0.1	23.4	294
D00004604	0.15	3.69	45	<0.1	25.4	339
D00004605	0.51	2.94	36	0.1	32.7	121
D00004606	0.41	1.39	49	0.2	18.9	474
D00004607	0.44	4.06	58	<0.1	20.2	233
D00004608	0.45	1.29	77	0.2	5.41	86
D00004609	0.15	1.26	32	0.5	8.81	309
D00004610	0.27	2.50	34	0.1	22.0	559
D00004611	0.19	1.37	26	0.1	12.6	621
D00004612	0.68	0.37	136	0.2	10.6	119
D00004613	1.89	1.71	121	0.1	35.2	142
D00004614	0.76	1.35	53	0.1	11.4	97
D00004615	0.70	1.65	166	0.2	23.4	223
D00004616	0.38	1.20	41	0.1	16.2	345
D00004617	0.68	1.77	28	<0.1	22.6	803
D00004618	0.62	1.98	67	0.1	35.1	350
D00004619	0.27	3.08	79	0.1	29.5	1130
D00004620	0.25	2.72	77	<0.1	28.7	1010
D00004621	0.40	4.10	29	0.2	27.8	1500
D00004622	0.42	3.79	29	0.2	19.6	369
D00004623	0.37	2.40	18	0.1	17.0	553
D00004624	0.22	2.00	50	0.2	12.9	232
D00004625	0.28	3.36	24	0.3	25.6	345
D00004626	0.27	4.09	16	0.2	22.2	438
D00004627	0.42	3.02	17	0.4	12.3	579
D00004628	0.34	3.64	13	0.1	18.5	572
D00004629	0.56	4.85	22	0.2	16.6	685
D00004630	0.45	1.49	45	0.2	6.95	395
D00004631	0.67	2.74	47	0.1	13.8	620
D00004632	0.11	1.47	48	0.2	5.48	169
D00004633	0.40	5.17	51	0.2	18.5	200
D00004634	0.15	1.77	54	0.3	6.50	177
D00004635	0.38	3.79	59	0.1	15.6	148
D00004636	0.37	0.96	48	0.3	27.6	319
D00004637	0.13	16.5	54	0.2	29.2	993
D00004638	0.18	7.39	73	0.2	18.8	430
D00004639	0.21	1.21	60	0.1	5.86	224
D00004640	0.17	1.27	60	0.1	5.91	267

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00004641	0.32	2.87	27	0.1	16.2	489
D00004642	0.55	3.55	34	0.1	16.4	615
D00004643	0.35	3.77	26	0.2	12.4	652
D00004644	0.22	3.26	15	0.2	15.9	347
D00004645	0.23	1.72	18	0.3	7.56	173
D00004646	0.36	3.11	62	0.1	18.0	214
D00004647	0.28	2.67	18	0.1	7.32	438
D00004648	0.27	3.24	20	0.2	8.15	456
D00004649	0.41	3.35	31	0.1	17.0	650
D00004650	0.32	2.05	108	0.1	14.0	381
D00004651	0.62	0.95	13	<0.1	17.4	486
D00004652	0.12	0.27	95	<0.1	9.70	92
D00004653	0.11	0.24	56	0.2	1.67	57
D00004654	0.52	1.80	50	0.1	12.3	80
D00004655	0.20	0.88	35	0.1	4.09	69
D00004656	0.20	0.88	43	0.2	5.03	74
D00004657	0.65	6.24	137	0.2	17.1	418
D00004658	0.13	0.67	38	0.1	5.06	77
D00004659	0.26	2.02	72	0.2	8.03	75
D00004660	0.35	1.98	89	0.2	8.96	98
D00004661	0.13	1.20	37	0.1	4.02	33
D00004662	0.27	2.42	46	0.1	19.5	289
D00004663	0.24	1.23	33	0.1	12.0	56
D00004664	0.40	9.17	70	0.1	24.1	162
D00004665	0.36	5.73	60	0.1	28.0	139
D00004666	0.37	21.0	60	0.1	17.3	142
D00004667	0.30	17.7	68	0.1	38.8	144
D00004668	0.21	5.39	48	0.1	16.8	100
D00004669	0.78	3.45	47	0.1	22.2	203
D00004670	0.69	0.94	50	0.3	6.49	67
D00004671	0.23	1.37	25	0.2	5.82	138
D00004672	0.22	0.83	18	0.4	5.12	114
D00004673	0.04	0.41	10	<0.1	1.42	124
D00004674	0.31	2.22	34	0.1	18.7	150
D00004675	0.22	2.89	50	0.1	13.5	150
D00004676	0.20	0.67	46	0.2	5.04	60

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00004621	0.40	4.22	28	0.2	27.8	1440
*Rep D00004648	0.26	3.15	18	0.2	8.05	463
*Rep D00004656	0.19	0.85	38	0.1	4.97	71
*Std OREAS151B	0.14	0.64	141	0.7	11.1	255
*Std OREAS902	0.20	2.39	9	2.3	7.71	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Std OREAS920	0.16	2.12	24	0.5	18.0	108

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Certificate of Analysis
Work Order : VC172783
[Report File No.: 0000024654]

Date: September 14, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01016
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00004677	0.165	<5	0.32	0.68	3	80	0.12	0.28
D00004678	0.170	<5	0.23	0.77	3	79	0.15	0.06
D00004679	0.315	8	0.20	1.77	11	281	0.28	0.59
D00004680	0.240	<5	0.47	1.61	13	314	0.30	0.66
D00004751	0.395	<5	0.13	1.55	9	138	0.28	0.23
D00004752	0.555	<5	0.08	1.52	8	99	0.28	0.27
D00004753	0.260	<5	0.04	0.47	<1	22	0.03	0.07
D00004754	0.495	15	0.19	2.52	27	111	0.26	0.47
D00004755	0.500	<5	0.07	1.87	21	46	0.21	0.23
D00004756	0.465	12	0.03	2.77	15	71	0.23	0.17
D00004757	0.360	<5	0.21	2.43	20	237	0.11	0.68
D00004758	0.390	<5	0.55	0.80	34	247	0.47	0.51
D00004759	0.240	<5	0.47	1.06	21	270	0.35	0.52
D00004760	0.265	<5	0.55	1.05	22	265	0.41	0.44
D00004761	0.290	5	0.35	1.23	21	191	0.41	0.71
D00004762	0.275	8	0.75	1.18	39	152	0.54	0.43
D00004763	0.220	8	0.44	0.83	20	126	0.62	0.81
D00004764	0.225	7	0.41	0.84	20	150	0.42	0.93
D00004765	0.125	7	1.05	1.13	13	254	1.03	1.20
D00004766	0.585	<5	0.26	1.62	6	110	0.79	0.38
D00004767	0.525	<5	0.25	2.22	8	175	1.28	0.44
D00004768	0.315	<5	0.34	2.04	17	177	2.05	0.48
D00004769	0.370	<5	0.02	0.59	1	31	0.28	0.06
D00004770	0.375	<5	0.23	1.73	5	142	0.67	0.25
D00004771	0.445	<5	0.06	1.51	4	108	1.42	0.21
D00004772	0.370	<5	0.12	2.09	3	140	2.24	0.32
D00004773	0.465	7	0.06	2.09	46	91	0.68	0.45
D00004774	0.620	<5	0.09	2.62	3	209	1.25	0.44
D00004775	0.220	<5	0.14	2.63	27	266	1.03	0.56
D00004776	0.335	<5	0.12	2.28	38	232	0.70	0.44
D00004777	0.440	<5	0.24	2.86	30	203	2.20	0.62
D00004778	0.445	<5	0.15	1.94	3	135	1.58	0.33
D00004779	0.580	<5	0.33	2.32	19	206	0.74	0.81
D00004780	0.535	<5	0.43	2.28	24	213	0.73	0.89
D00004781	0.445	<5	0.05	1.79	7	108	0.58	0.30
D00004782	0.370	<5	0.08	1.42	8	117	0.67	0.24
D00004783	0.550	<5	0.28	2.58	33	248	0.51	0.59
D00004784	0.330	<5	0.67	2.33	81	195	0.40	0.90
D00004785	0.625	<5	0.03	1.81	8	176	0.64	0.39
D00004786	0.250	<5	0.13	2.74	10	259	1.07	0.52

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00004787	0.720	5	1.95	1.59	7	108	9.39	0.51
D00004788	0.635	<5	0.06	1.50	8	84	1.33	0.31
D00004789	0.715	<5	0.06	1.33	8	82	0.40	0.49
D00004790	0.270	<5	0.40	2.37	65	216	0.54	0.89
D00004791	0.380	<5	0.15	1.88	12	333	0.36	0.94
D00004792	0.515	<5	0.25	0.85	12	129	1.51	0.14
D00004793	0.325	<5	0.13	1.41	3	123	0.27	0.48
D00004794	0.530	6	0.47	1.60	6	168	1.52	0.72
D00004795	0.395	<5	0.49	0.94	12	152	1.58	0.17
D00004796	0.435	<5	0.27	1.49	52	212	1.05	0.23
D00004797	0.430	<5	0.39	1.64	15	233	0.61	0.55
D00004798	0.495	5	0.43	0.80	31	306	0.61	0.11
D00004799	0.480	<5	0.06	0.57	16	282	0.20	0.05
D00004800	0.525	<5	0.06	0.53	16	240	0.21	0.05
D00004801	0.470	9	0.08	0.60	2	767	0.30	0.14
D00004802	0.475	<5	0.09	0.70	4	404	0.27	0.16
D00004803	0.590	6	0.05	1.17	6	626	0.38	0.11
D00004804	0.525	<5	0.07	0.59	<1	613	0.19	0.12
D00004805	0.430	<5	0.48	0.99	21	380	0.55	0.56
D00004806	0.395	<5	0.68	0.68	27	244	0.71	0.28
D00004807	0.610	<5	0.07	1.07	5	480	0.33	0.10
D00004808	0.620	<5	0.24	0.65	11	209	1.17	0.09
D00004809	0.540	<5	0.35	0.40	23	139	0.83	0.14
D00004810	0.230	<5	0.17	1.80	7	256	1.25	0.48
D00004811	0.340	<5	0.19	0.91	5	875	0.49	0.26
D00004812	0.500	<5	0.07	0.40	4	295	0.22	0.03
D00004813	0.460	<5	0.14	0.53	17	244	0.90	0.22
D00004814	0.660	<5	0.17	2.58	7	343	0.80	0.47
D00004815	0.355	<5	0.24	2.40	8	478	1.80	0.60
D00004816	0.310	<5	0.06	2.03	4	273	1.65	0.45
D00004817	0.300	<5	0.10	1.72	4	313	0.51	0.33
D00004818	0.275	<5	0.06	2.27	2	270	0.16	1.38
D00004819	0.495	<5	0.12	1.76	5	178	0.52	0.57
D00004820	0.665	<5	0.20	1.94	5	202	0.70	0.67
D00004821	0.355	<5	0.22	1.06	1	140	0.35	0.27
D00004822	0.520	<5	0.59	0.40	17	346	0.14	0.11
*Std OREAS151B		68						
*Std OXK119		3680						
*Std AMIS0282		192						
*Blk BLANK		<5						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00004753		0.04	0.49	1	23	0.03	0.07
*Rep D00004783		0.29	2.49	32	249	0.51	0.58
*Rep D00004801		0.08	0.65	2	758	0.30	0.14
*Std OREAS920		0.10	2.35	4	77	0.66	0.33
*Std OREAS151B		0.55	2.35	32	68	0.39	1.36
*Std OREAS902		0.31	0.48	593	14	8.37	4.05
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00004752	18						
*Rep D00004787	<5						
*Rep D00004808	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00004677	0.16	27.9	2.7	8	8.6	1.08	3.3	0.05
D00004678	4.00	27.3	7.6	4	12.0	0.91	3.9	0.03
D00004679	0.29	106	9.8	20	14.6	2.89	6.5	0.07
D00004680	0.15	122	8.5	20	16.5	2.88	6.3	0.09
D00004751	0.11	26.1	5.5	25	11.2	2.81	5.9	0.02
D00004752	0.20	19.3	8.2	43	19.1	3.45	7.0	0.02
D00004753	0.04	8.18	1.1	5	14.0	0.40	1.4	0.01
D00004754	0.50	42.5	28.9	118	91.8	5.46	7.4	0.03
D00004755	0.23	23.8	17.5	86	41.1	4.84	6.4	0.03
D00004756	0.21	20.4	33.7	72	68.7	5.55	7.5	0.01
D00004757	1.08	32.0	31.9	148	57.9	3.39	4.7	0.04
D00004758	2.34	88.2	24.7	32	33.1	2.38	2.6	0.08
D00004759	3.84	58.7	23.1	82	31.9	2.62	3.3	0.06
D00004760	3.62	65.1	22.6	82	31.4	2.78	3.4	0.06
D00004761	3.10	61.6	15.0	66	21.4	2.36	3.8	0.07
D00004762	3.25	97.5	15.4	45	25.2	2.59	3.8	0.10
D00004763	3.28	71.7	14.0	25	29.9	2.25	3.0	0.08
D00004764	3.95	74.0	21.3	25	35.1	2.41	2.8	0.09
D00004765	5.11	79.0	14.4	34	89.2	3.28	3.7	0.14
D00004766	1.11	62.2	19.1	61	59.7	3.56	5.2	0.02
D00004767	2.21	53.9	25.5	107	130	4.25	5.7	0.03
D00004768	2.26	61.9	19.5	91	147	4.48	5.9	0.01
D00004769	0.10	13.6	1.5	3	9.0	0.61	2.4	<0.01
D00004770	0.19	53.4	8.3	23	18.6	3.07	6.8	0.02
D00004771	0.35	72.0	10.2	23	64.4	3.32	6.3	0.03
D00004772	0.20	143	16.8	30	81.0	5.04	8.3	0.02
D00004773	1.99	62.4	16.1	36	45.2	5.11	8.2	0.02
D00004774	0.10	142	19.2	35	97.6	6.20	11.0	0.02
D00004775	0.23	112	17.7	38	61.7	5.35	11.8	0.02
D00004776	0.43	88.0	17.6	37	35.2	5.10	11.1	0.03
D00004777	0.25	85.4	22.0	43	116	6.45	10.7	0.02
D00004778	0.36	134	14.3	20	96.9	4.53	7.7	<0.01
D00004779	3.40	109	26.4	41	90.0	5.44	9.3	0.02
D00004780	5.03	110	31.8	39	92.7	5.75	8.9	0.04
D00004781	0.20	85.9	13.5	27	58.4	3.81	7.3	<0.01
D00004782	0.18	59.1	9.9	19	27.3	3.31	7.9	0.02
D00004783	1.76	86.6	33.9	66	127	6.54	10.0	0.02
D00004784	3.02	63.1	22.2	48	117	5.09	9.0	<0.01
D00004785	0.24	96.7	14.0	28	38.5	3.77	7.6	<0.01
D00004786	0.13	93.5	17.3	35	61.9	5.42	11.9	0.04

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00004787	0.10	59.2	12.1	21	17.0	3.12	5.7	0.02
D00004788	0.09	48.8	10.8	25	13.9	2.78	5.2	<0.01
D00004789	0.22	35.4	8.3	22	13.3	2.41	4.6	0.02
D00004790	2.77	48.3	18.6	114	77.8	4.72	8.2	0.02
D00004791	2.00	29.5	19.8	42	46.0	4.23	7.1	0.01
D00004792	1.61	53.8	8.1	14	28.5	2.62	3.3	<0.01
D00004793	0.11	23.6	6.0	22	12.6	2.07	5.2	0.02
D00004794	0.39	130	14.7	28	118	4.00	6.2	0.05
D00004795	1.41	42.7	5.8	13	27.2	2.50	3.2	0.04
D00004796	0.77	52.0	10.3	30	21.7	3.27	5.7	<0.01
D00004797	0.90	59.8	12.2	47	45.6	3.29	5.7	0.03
D00004798	0.68	89.5	16.9	24	137	3.13	3.4	0.05
D00004799	0.34	79.0	15.4	12	100	3.00	2.7	0.02
D00004800	0.30	69.5	14.9	22	95.5	3.03	2.5	0.02
D00004801	0.13	110	23.9	14	159	2.59	2.9	0.05
D00004802	0.36	33.5	9.7	16	50.4	1.95	3.9	0.05
D00004803	0.12	84.5	18.3	21	132	3.17	5.0	0.05
D00004804	0.07	82.0	24.2	25	109	2.90	2.8	0.05
D00004805	1.60	64.7	17.8	48	52.8	2.73	3.5	0.04
D00004806	5.19	75.3	14.2	28	39.2	2.33	2.4	0.08
D00004807	0.28	75.7	14.8	18	81.8	2.40	4.7	0.02
D00004808	0.71	96.7	8.2	10	34.0	2.38	2.9	0.04
D00004809	0.94	57.4	5.8	6	26.9	1.84	1.6	0.04
D00004810	0.61	46.6	19.2	64	71.5	4.53	5.7	0.03
D00004811	0.28	41.6	10.4	17	79.9	2.69	4.8	0.07
D00004812	0.11	38.0	7.7	11	52.2	2.07	2.3	0.04
D00004813	0.56	59.0	15.9	24	38.0	3.60	2.4	0.04
D00004814	0.81	41.5	27.1	101	65.2	5.40	7.8	0.03
D00004815	1.34	57.3	19.9	90	87.3	4.74	7.3	0.02
D00004816	0.21	25.2	12.8	27	31.6	4.98	7.9	0.01
D00004817	0.71	42.2	16.0	66	39.6	4.33	5.6	<0.01
D00004818	0.24	40.9	10.1	45	12.4	3.81	8.4	<0.01
D00004819	0.28	48.9	12.7	37	36.8	3.70	6.4	0.02
D00004820	0.41	47.3	13.7	47	44.1	3.80	6.4	0.03
D00004821	0.31	21.2	6.7	25	21.8	2.00	4.1	0.01
D00004822	3.50	325	13.8	<1	13.6	1.36	3.5	0.07

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00004753	0.05	8.47	1.2	5	14.0	0.40	1.4	<0.01
*Rep D00004783	1.72	83.7	33.4	65	124	6.62	10.1	0.02
*Rep D00004801	0.12	107	23.9	14	157	2.64	3.1	0.03
*Std OREAS920	0.06	72.4	13.8	43	107	3.54	7.3	<0.01
*Std OREAS151B	0.59	16.4	10.8	27	1750	3.26	7.8	0.03
*Std OREAS902	0.02	29.4	958	21	2820	2.96	1.6	0.06
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00004677	0.05	22.8	0.18	154	0.74	0.03	5.0	440
D00004678	0.07	14.6	0.05	1530	0.81	0.02	3.9	430
D00004679	0.31	111	0.53	540	1.44	0.02	11.7	1230
D00004680	0.23	140	0.51	409	1.37	0.02	11.6	1170
D00004751	0.04	16.2	0.70	199	1.75	<0.01	13.2	570
D00004752	0.05	10.2	0.81	493	2.65	0.01	20.5	780
D00004753	0.02	4.2	0.08	29	0.22	0.03	3.0	390
D00004754	0.11	23.2	1.78	706	2.91	0.01	94.9	1900
D00004755	0.06	12.1	1.13	382	3.21	0.01	63.8	1250
D00004756	0.09	10.4	1.81	566	2.86	0.01	74.7	530
D00004757	0.38	22.4	1.97	737	0.84	0.01	112	540
D00004758	0.13	51.2	0.40	1090	1.93	0.01	41.7	440
D00004759	0.17	29.2	0.83	837	1.95	0.01	51.8	800
D00004760	0.18	32.7	0.84	896	2.00	0.01	52.0	690
D00004761	0.19	40.9	0.78	805	1.16	<0.01	33.0	730
D00004762	0.19	68.1	0.56	863	1.91	0.01	30.8	750
D00004763	0.18	39.4	0.38	740	1.69	<0.01	20.2	730
D00004764	0.21	42.1	0.46	674	1.91	0.01	26.8	530
D00004765	0.28	49.7	0.61	880	3.87	0.01	35.0	730
D00004766	0.47	32.1	1.23	821	1.88	<0.01	34.8	540
D00004767	0.65	27.5	1.95	1050	2.06	0.01	50.6	600
D00004768	0.70	36.0	1.74	834	2.92	0.01	43.9	450
D00004769	0.06	8.0	0.07	176	0.86	0.03	1.4	400
D00004770	0.26	32.5	0.76	485	1.79	0.01	11.7	950
D00004771	0.53	41.5	0.86	866	3.86	0.01	14.4	800
D00004772	0.91	68.0	1.20	1090	5.69	0.01	13.6	650
D00004773	0.29	21.1	0.98	786	8.95	<0.01	45.2	2770
D00004774	1.54	79.4	1.55	798	6.14	0.01	15.7	1340
D00004775	0.78	64.1	1.59	979	5.50	0.01	15.9	920
D00004776	0.60	43.6	1.40	747	3.19	0.01	16.9	1410
D00004777	1.47	45.5	1.97	1400	8.13	0.02	20.1	1160
D00004778	0.85	65.9	1.08	1050	5.28	0.01	11.1	690
D00004779	0.66	52.1	1.60	1140	3.65	0.01	45.5	1740
D00004780	0.64	53.6	1.63	1280	3.26	0.01	46.5	2060
D00004781	0.69	44.5	1.09	550	2.95	0.01	16.0	1230
D00004782	0.42	27.2	0.78	404	2.83	0.01	10.1	760
D00004783	0.48	43.1	1.85	1190	3.06	0.01	63.0	2020
D00004784	0.55	33.6	1.80	801	6.15	0.01	60.6	2940
D00004785	0.51	37.1	1.07	677	2.79	<0.01	15.8	1210
D00004786	0.96	53.1	1.54	839	6.14	0.01	14.4	910

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00004787	0.39	31.8	0.76	408	2.50	<0.01	17.2	1700
D00004788	0.20	23.4	0.66	373	0.99	<0.01	15.8	1200
D00004789	0.16	16.5	0.61	204	2.63	<0.01	17.7	1480
D00004790	0.31	28.4	1.59	585	8.94	<0.01	76.9	1730
D00004791	0.18	17.3	1.21	1180	1.33	<0.01	42.6	1930
D00004792	0.16	29.3	0.36	455	3.60	<0.01	14.4	480
D00004793	0.06	13.8	0.63	257	2.25	0.02	9.9	1010
D00004794	0.21	245	0.66	681	9.27	<0.01	19.0	1010
D00004795	0.10	23.9	0.29	350	3.56	<0.01	12.7	710
D00004796	0.15	29.2	0.73	402	2.69	<0.01	16.9	740
D00004797	0.15	37.1	0.92	370	1.87	<0.01	26.4	950
D00004798	0.12	43.5	0.39	1360	2.22	<0.01	52.1	460
D00004799	0.07	30.2	0.19	1200	1.67	<0.01	51.9	380
D00004800	0.06	24.0	0.17	1070	1.73	<0.01	55.3	390
D00004801	0.13	39.8	0.32	1680	0.99	<0.01	51.6	620
D00004802	0.11	12.7	0.27	1260	1.23	<0.01	20.7	500
D00004803	0.09	36.3	0.63	2200	1.30	<0.01	42.7	730
D00004804	0.07	33.0	0.32	1970	0.61	<0.01	61.8	440
D00004805	0.16	29.3	0.64	1080	2.37	<0.01	42.9	540
D00004806	0.17	42.6	0.34	685	2.51	<0.01	29.0	600
D00004807	0.13	24.3	0.50	1670	1.49	<0.01	27.1	570
D00004808	0.12	33.5	0.19	555	3.82	<0.01	16.3	500
D00004809	0.11	28.0	0.10	584	2.94	<0.01	13.1	390
D00004810	0.65	28.3	1.19	1350	3.22	<0.01	37.6	860
D00004811	0.15	25.0	0.33	632	1.95	<0.01	31.7	550
D00004812	0.05	15.8	0.12	569	0.98	<0.01	24.2	480
D00004813	0.12	33.6	0.28	859	2.79	<0.01	35.6	350
D00004814	1.10	22.8	2.05	1560	3.70	0.01	53.1	750
D00004815	0.69	38.6	1.67	1450	3.16	0.01	39.6	770
D00004816	0.93	14.2	1.10	747	3.75	<0.01	13.8	440
D00004817	0.49	21.5	1.19	813	2.99	0.01	40.2	600
D00004818	0.30	22.8	1.30	361	2.56	0.01	13.0	1020
D00004819	0.56	27.5	1.14	502	2.58	<0.01	21.8	1060
D00004820	0.56	29.5	1.15	618	2.74	<0.01	26.5	930
D00004821	0.20	15.5	0.47	359	2.54	0.02	13.4	550
D00004822	0.23	211	0.02	2930	4.43	<0.01	21.8	90

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00004753	0.02	4.2	0.07	29	0.24	0.04	2.9	390
*Rep D00004783	0.50	41.9	1.90	1180	2.94	<0.01	62.2	1890
*Rep D00004801	0.14	40.4	0.33	1660	1.00	<0.01	53.6	590
*Std OREAS920	0.43	36.9	1.05	531	0.38	0.03	35.8	680
*Std OREAS151B	0.39	7.4	1.40	285	59.5	0.17	14.2	500
*Std OREAS902	0.24	14.0	2.15	467	12.4	0.01	154	650
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00004677	8.5	7.2	0.11	0.5	<0.3	13.3	0.2	0.02
D00004678	19.1	10.3	0.14	0.4	<0.3	6.2	0.4	0.02
D00004679	32.1	45.4	0.23	3.6	0.4	30.6	5.3	0.09
D00004680	36.5	33.8	0.25	3.4	0.3	33.7	5.1	0.07
D00004751	22.3	10.9	0.15	2.3	0.3	10.8	2.7	0.02
D00004752	14.4	12.5	0.20	2.0	0.5	10.6	0.7	0.07
D00004753	4.8	2.0	0.05	0.6	<0.3	6.0	<0.1	0.02
D00004754	38.3	19.3	0.28	6.2	0.3	14.5	4.3	0.11
D00004755	15.9	9.6	0.29	3.7	0.4	8.7	2.8	0.09
D00004756	11.7	14.5	0.31	3.5	0.5	9.9	3.7	0.20
D00004757	6.3	45.4	0.29	2.9	<0.3	12.3	3.5	0.13
D00004758	40.5	23.3	0.36	2.7	<0.3	13.6	13.0	0.04
D00004759	111	21.4	0.63	3.2	<0.3	18.0	12.2	0.09
D00004760	125	22.7	0.58	3.4	<0.3	16.1	13.2	0.10
D00004761	27.9	29.9	0.36	3.3	<0.3	16.1	9.3	0.08
D00004762	103	39.0	0.76	2.9	<0.3	15.8	10.9	0.06
D00004763	50.1	25.0	0.52	2.2	<0.3	25.0	7.5	0.04
D00004764	37.2	28.8	0.36	2.4	<0.3	29.2	8.5	0.05
D00004765	206	40.7	0.49	2.6	<0.3	55.8	8.0	0.05
D00004766	41.0	57.9	0.25	4.2	0.3	19.3	13.0	0.15
D00004767	71.7	58.6	0.23	4.0	<0.3	25.7	14.1	0.18
D00004768	89.6	62.1	0.27	4.1	0.4	40.9	16.2	0.16
D00004769	4.1	7.4	0.08	0.4	<0.3	6.3	0.3	0.02
D00004770	21.8	53.0	0.16	2.7	0.5	21.0	2.5	0.12
D00004771	24.6	74.8	0.17	3.7	0.5	22.4	10.9	0.18
D00004772	35.0	104	0.12	6.1	0.7	40.1	24.8	0.25
D00004773	39.3	36.1	0.46	3.8	0.6	18.1	3.3	0.14
D00004774	13.7	142	0.10	8.4	1.3	37.8	28.0	0.34
D00004775	20.3	93.4	0.12	8.2	1.1	33.8	10.3	0.27
D00004776	27.3	70.2	0.13	8.0	0.8	24.5	6.5	0.21
D00004777	56.2	148	0.07	10.4	1.1	32.8	17.4	0.37
D00004778	75.0	106	0.10	4.8	0.9	26.8	20.6	0.20
D00004779	80.4	64.9	0.14	7.9	0.6	35.7	13.9	0.16
D00004780	106	64.3	0.15	8.1	0.5	40.0	13.3	0.15
D00004781	16.0	63.0	0.16	5.2	0.7	16.2	14.3	0.21
D00004782	18.6	46.7	0.17	3.7	0.7	12.2	3.8	0.18
D00004783	34.3	47.5	0.11	10.1	0.5	28.2	11.0	0.16
D00004784	48.2	55.5	0.20	8.9	0.5	30.5	9.6	0.15
D00004785	23.8	56.0	0.15	6.0	0.6	19.3	13.8	0.18
D00004786	17.5	98.2	0.13	7.9	1.1	29.8	12.5	0.29

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00004787	485	52.4	0.18	3.7	0.5	38.7	13.3	0.06
D00004788	43.5	23.3	0.10	2.9	0.4	15.2	9.8	0.06
D00004789	7.8	36.2	0.08	2.5	<0.3	22.8	4.7	0.05
D00004790	30.0	50.2	0.20	6.7	0.6	33.3	4.8	0.12
D00004791	19.8	29.9	0.08	5.5	<0.3	35.0	3.4	0.10
D00004792	44.2	20.1	0.18	1.7	0.3	15.0	5.2	0.04
D00004793	10.5	9.0	0.09	0.9	<0.3	28.1	0.4	0.04
D00004794	22.7	26.7	0.22	3.7	0.5	36.5	6.3	0.05
D00004795	46.9	15.7	0.20	0.8	0.3	12.7	1.0	0.02
D00004796	45.0	24.1	0.28	2.3	0.5	14.2	3.0	0.08
D00004797	45.0	26.2	0.31	2.9	<0.3	24.2	3.1	0.06
D00004798	47.3	15.3	0.44	2.5	0.7	24.8	11.3	0.03
D00004799	17.7	11.8	0.11	1.8	<0.3	15.4	7.3	0.01
D00004800	17.9	11.7	0.18	1.6	<0.3	15.3	6.4	0.01
D00004801	13.4	17.6	0.21	2.4	<0.3	18.8	7.8	0.03
D00004802	10.8	15.2	0.30	1.4	<0.3	24.8	1.0	0.04
D00004803	15.9	14.0	0.19	4.2	<0.3	14.7	5.2	0.02
D00004804	11.3	11.0	0.13	3.9	<0.3	22.7	9.3	0.02
D00004805	73.2	23.9	0.46	2.7	<0.3	30.4	8.0	0.05
D00004806	170	20.1	0.73	2.3	<0.3	15.9	15.8	0.04
D00004807	18.7	19.3	0.25	2.9	<0.3	11.3	3.1	0.05
D00004808	71.3	11.5	0.38	1.3	<0.3	14.5	13.4	0.02
D00004809	49.3	11.6	0.37	0.9	<0.3	10.0	10.5	0.01
D00004810	48.0	67.1	0.21	5.7	0.5	39.6	10.0	0.23
D00004811	27.1	18.6	0.25	2.1	<0.3	27.8	2.1	0.05
D00004812	6.6	9.5	0.19	1.7	<0.3	9.3	1.7	0.01
D00004813	70.7	12.6	0.86	5.4	<0.3	20.2	13.2	0.02
D00004814	30.2	82.2	0.12	9.3	0.4	38.5	9.0	0.25
D00004815	28.4	67.0	0.17	7.3	0.8	50.5	8.3	0.28
D00004816	14.2	113	0.11	5.6	2.0	33.3	5.5	0.30
D00004817	39.1	44.4	0.15	5.8	0.3	26.3	8.4	0.14
D00004818	5.2	24.8	0.07	5.5	0.9	67.7	2.9	0.21
D00004819	12.3	58.4	0.11	5.4	0.6	28.4	8.1	0.20
D00004820	16.3	62.1	0.15	5.2	0.7	37.9	6.4	0.20
D00004821	8.7	25.6	0.07	1.9	<0.3	19.5	1.0	0.10
D00004822	7.2	19.1	0.72	0.9	<0.3	10.0	35.7	<0.01

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00004753	4.9	2.1	0.06	0.6	<0.3	6.3	<0.1	0.02
*Rep D00004783	35.0	47.3	0.11	10.0	0.4	27.6	10.6	0.16
*Rep D00004801	13.2	18.1	0.19	2.5	<0.3	18.6	8.2	0.03
*Std OREAS920	26.0	27.1	0.60	3.0	1.1	16.3	16.1	0.16
*Std OREAS151B	41.5	20.4	0.58	9.3	1.0	37.4	2.6	0.07
*Std OREAS902	10.2	9.0	0.85	2.7	<0.3	20.3	5.0	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00004677	0.08	0.66	18	0.1	6.74	39
D00004678	0.09	0.57	13	0.2	3.19	57
D00004679	0.38	2.80	48	0.1	34.0	78
D00004680	0.35	4.33	44	0.2	40.5	76
D00004751	0.12	1.53	40	0.2	5.89	169
D00004752	0.16	1.01	55	0.2	4.49	187
D00004753	0.05	0.29	9	<0.1	1.49	15
D00004754	0.32	1.86	94	0.1	9.30	572
D00004755	0.27	1.53	81	0.1	6.85	256
D00004756	0.23	1.29	84	0.2	6.03	299
D00004757	0.48	1.36	49	0.2	15.2	265
D00004758	0.31	3.53	22	0.2	38.9	465
D00004759	0.51	1.89	31	0.2	16.3	811
D00004760	0.51	2.12	32	0.1	18.9	862
D00004761	0.35	3.47	36	0.1	26.4	391
D00004762	0.44	5.23	34	0.5	38.6	703
D00004763	0.34	2.82	26	0.2	25.7	482
D00004764	0.38	2.27	22	<0.1	22.5	848
D00004765	0.57	4.03	28	0.2	25.0	995
D00004766	0.47	2.60	46	3.3	15.3	325
D00004767	0.55	2.40	59	0.2	11.9	384
D00004768	0.61	3.23	52	0.2	12.0	495
D00004769	0.06	0.95	11	<0.1	1.92	13
D00004770	0.36	2.71	51	0.1	11.5	137
D00004771	0.56	4.49	42	0.1	16.8	159
D00004772	0.63	6.44	54	0.1	22.6	117
D00004773	0.33	3.09	205	0.2	10.7	945
D00004774	0.73	4.92	67	0.1	24.9	66
D00004775	0.51	3.67	97	0.1	17.3	108
D00004776	0.40	2.44	136	0.1	14.0	146
D00004777	0.84	6.04	105	<0.1	21.2	139
D00004778	0.65	5.42	52	0.2	16.5	148
D00004779	0.46	3.07	79	0.1	24.8	1460
D00004780	0.47	3.09	85	0.1	28.1	2200
D00004781	0.41	2.19	52	0.2	12.7	98
D00004782	0.28	1.46	62	0.1	7.46	74
D00004783	0.32	2.59	117	0.3	19.1	445
D00004784	0.47	3.44	178	5.8	20.5	1030
D00004785	0.34	2.09	65	0.1	12.3	124
D00004786	0.52	3.85	94	0.1	14.9	96

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00004787	0.42	2.67	31	<0.1	19.5	58
D00004788	0.19	1.51	39	<0.1	13.1	63
D00004789	0.15	7.18	33	<0.1	10.5	99
D00004790	0.40	16.1	136	0.3	17.4	671
D00004791	0.19	1.44	81	<0.1	10.0	390
D00004792	0.20	2.89	23	<0.1	9.66	376
D00004793	0.08	2.44	42	<0.1	5.95	65
D00004794	0.17	37.9	40	0.2	109	143
D00004795	0.21	3.00	20	0.1	8.88	355
D00004796	0.25	2.23	45	0.2	8.13	321
D00004797	0.23	3.65	55	0.1	17.9	332
D00004798	0.33	2.11	22	0.1	10.1	318
D00004799	0.24	1.74	17	<0.1	6.84	302
D00004800	0.22	1.67	16	<0.1	5.67	321
D00004801	0.17	1.44	23	0.2	10.9	122
D00004802	0.14	0.91	30	0.2	4.07	89
D00004803	0.14	1.60	32	0.1	17.6	129
D00004804	0.19	1.23	26	0.2	14.3	134
D00004805	0.35	3.51	29	0.1	16.3	398
D00004806	0.41	3.54	18	0.2	22.2	968
D00004807	0.18	1.90	34	0.2	9.97	121
D00004808	0.16	3.11	19	0.2	8.45	240
D00004809	0.18	3.08	9	0.2	12.3	249
D00004810	0.56	3.31	55	0.2	19.1	192
D00004811	0.20	1.42	34	0.2	8.14	111
D00004812	0.09	0.94	20	0.2	4.76	84
D00004813	0.20	1.20	23	<0.1	15.5	287
D00004814	0.57	1.64	83	<0.1	14.8	347
D00004815	0.50	3.62	72	<0.1	19.0	244
D00004816	0.77	1.32	54	0.1	5.51	97
D00004817	0.35	1.31	49	0.1	10.3	320
D00004818	0.15	5.45	70	<0.1	12.7	64
D00004819	0.31	3.64	60	0.1	14.8	115
D00004820	0.38	5.42	57	0.1	17.0	144
D00004821	0.19	3.67	31	<0.1	7.56	83
D00004822	0.36	14.4	3	0.3	89.8	250

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00004753	0.06	0.30	9	<0.1	1.53	15
*Rep D00004783	0.32	2.55	115	0.2	18.9	432
*Rep D00004801	0.15	1.44	22	0.1	11.2	122
*Std OREAS920	0.16	2.21	25	0.5	20.2	107
*Std OREAS151B	0.13	0.62	152	0.6	11.1	236
*Std OREAS902	0.20	2.28	9	2.2	7.66	6
*Blk BLANK	<0.02	<0.05	1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172784
[Report File No.: 0000024827]

Date: September 21, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01016
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00004823	0.550	<5	0.28	0.46	27	106	0.52	0.13
D00004824	0.605	<5	0.32	0.56	15	95	0.61	0.10
D00004825	0.600	<5	0.21	0.57	21	92	0.77	0.10
D00004826	0.490	<5	0.21	1.34	19	79	0.39	0.26
D00004827	0.400	8	0.45	0.99	23	105	0.55	0.42
D00004828	0.385	<5	0.28	1.27	18	299	0.43	0.49
D00004829	0.270	<5	0.32	0.74	12	88	1.33	0.25
D00004830	0.560	<5	0.45	1.15	16	195	2.63	0.30
D00004831	0.585	<5	0.22	2.01	7	155	2.06	0.22
D00004832	0.520	6	0.70	1.85	21	272	3.00	0.45
D00004833	0.510	<5	0.07	3.47	23	154	0.19	0.69
D00004834	0.435	<5	0.28	0.69	23	94	0.77	0.16
D00004835	0.320	<5	0.31	0.84	19	315	0.67	0.26
D00004836	0.460	<5	0.14	1.35	20	91	0.40	0.30
D00004851	0.270	<5	0.13	2.38	3	109	1.17	0.44
D00004852	0.260	<5	0.22	3.47	4	152	1.48	0.55
D00004853	0.415	<5	0.07	2.56	4	103	0.81	0.51
D00004854	0.420	<5	0.11	1.52	15	75	1.06	0.14
D00004855	0.350	<5	0.12	1.51	16	138	2.15	0.28
D00004856	0.175	<5	0.61	0.92	17	95	2.32	0.61
D00004857	0.350	<5	0.11	1.48	26	140	1.27	0.45
D00004858	0.180	<5	0.04	1.54	13	143	0.98	0.10
D00004859	0.400	<5	0.27	1.79	5	95	3.43	0.22
D00004860	0.415	<5	0.26	2.03	4	95	3.66	0.15
D00004861	0.500	<5	0.37	0.68	396	79	2.49	0.08
D00004862	0.265	<5	0.13	2.12	14	99	2.58	0.28
D00004863	0.425	<5	0.16	1.35	7	89	1.84	0.22
D00004864	0.275	<5	0.34	2.01	53	128	2.49	0.37
D00004865	0.275	<5	0.12	1.94	7	155	1.50	0.38
D00004866	0.345	6	0.10	2.61	23	199	1.16	0.65
D00004867	0.190	<5	0.19	1.52	15	123	1.17	0.23
D00004868	0.365	<5	0.13	1.49	4	84	1.41	0.17
D00004869	0.245	<5	0.10	2.27	5	133	1.64	0.43
D00004870	0.445	<5	0.07	2.13	8	109	1.17	0.14
D00004871	0.235	<5	0.16	1.68	11	103	0.93	0.39
D00004872	0.315	<5	0.13	1.32	10	84	1.32	0.19
D00004873	0.175	<5	0.08	0.86	3	57	0.49	0.10
D00004874	0.375	7	0.05	0.93	5	59	0.50	0.21
D00004875	0.270	7	0.09	0.67	5	36	0.70	0.03
D00004876	0.330	5	0.18	2.89	5	152	1.12	0.28

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00004877	0.285	<5	0.20	0.94	11	124	3.68	0.09
D00004878	0.195	<5	1.05	4.14	1	301	4.88	0.76
D00006201	0.330	<5	0.07	1.12	4	74	0.37	0.06
D00006202	0.590	<5	0.08	2.16	3	152	0.13	0.52
D00006203	0.245	<5	0.04	0.28	<1	30	0.06	0.09
D00006204	0.370	<5	0.22	1.09	5	253	0.25	0.51
D00006205	0.305	<5	0.33	1.12	6	160	0.37	0.30
D00006206	0.540	<5	0.05	0.80	3	143	0.16	0.23
D00006207	0.575	<5	0.04	0.88	4	66	0.18	0.19
D00006208	0.605	<5	0.04	1.13	5	69	0.32	0.14
D00006209	0.460	<5	0.04	1.34	6	91	0.19	0.12
D00006210	0.530	<5	0.11	2.07	2	111	0.18	0.43
D00006211	0.400	<5	0.04	1.04	4	65	0.26	0.10
D00006212	0.505	<5	0.10	1.23	46	135	0.22	2.99
D00006213	0.545	<5	0.06	1.92	6	126	0.30	0.26
D00006214	0.290	<5	0.18	1.24	2	168	0.37	0.56
D00006215	0.375	<5	0.16	1.26	9	74	0.31	0.07
D00006216	0.385	<5	0.09	0.84	8	44	0.28	0.04
D00006217	0.285	<5	0.02	0.09	<1	11	<0.02	0.02
D00006218	0.365	<5	0.03	1.53	7	140	0.18	0.20
D00006219	0.210	<5	0.08	0.20	1	26	0.05	0.03
D00006220	0.235	<5	0.07	0.17	<1	42	0.02	0.07
D00006221	0.255	<5	0.06	0.18	2	38	0.04	0.06
D00006222	0.530	<5	0.04	0.28	3	34	0.23	0.02
D00006223	0.465	<5	0.08	1.59	5	134	0.17	0.25
D00006224	0.575	<5	0.08	1.44	9	133	0.17	0.21
D00006225	0.640	<5	0.08	0.48	3	41	0.16	0.02
D00006226	0.235	<5	0.33	0.70	2	128	0.15	0.53
D00006227	0.360	<5	0.20	1.05	5	197	0.23	0.27
D00006228	0.485	<5	0.16	1.32	7	133	0.34	0.44
D00006229	0.240	5	0.37	1.63	3	861	0.38	0.67
D00006230	0.245	<5	0.05	0.13	<1	17	<0.02	0.08
D00006701	0.425	<5	0.04	1.02	8	80	0.21	0.18
D00006702	0.420	<5	0.03	0.62	2	68	0.18	0.22
D00006703	0.220	<5	0.38	1.90	20	188	0.28	0.39
D00006704	0.440	<5	0.12	1.39	15	100	0.19	0.11
*Std OREAS151B		65						
*Std OXK119		3540						
*Std AMIS0282		191						
*Blk BLANK		<5						

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Final : VC172784 Order: PO# BMC17-01016

Report File No.: 0000024827

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00004831		0.23	2.06	9	158	2.20	0.23
*Rep D00004871		0.16	1.63	10	102	0.96	0.39
*Rep D00006220		0.06	0.16	1	40	0.02	0.06
*Std OREAS920		0.10	2.45	4	74	0.67	0.32
*Std OREAS920		0.10	2.45	5	72	0.79	0.30
*Std OREAS151B		0.54	2.43	32	67	0.39	1.33
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00004825	<5						
*Rep D00006202	<5						
*Rep D00006225	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00004823	4.66	112	11.5	11	19.3	1.57	1.8	0.02
D00004824	2.74	117	7.3	8	15.7	1.69	2.1	0.06
D00004825	2.07	122	6.7	8	17.0	1.49	2.1	0.05
D00004826	1.81	73.2	30.1	64	29.8	3.02	4.0	0.04
D00004827	7.54	111	28.0	32	36.5	3.18	3.1	0.06
D00004828	1.31	80.5	30.1	45	28.7	3.26	3.6	0.07
D00004829	1.54	95.4	13.5	24	52.1	2.58	2.4	0.03
D00004830	1.65	94.1	13.2	40	147	3.99	3.8	0.05
D00004831	0.47	66.0	18.6	75	112	4.46	5.2	<0.01
D00004832	2.01	75.4	21.6	76	298	5.39	5.9	0.06
D00004833	1.06	27.9	43.2	178	50.0	5.06	6.6	<0.01
D00004834	1.53	112	18.0	16	64.9	2.88	2.3	0.05
D00004835	1.77	115	12.9	13	26.5	2.18	2.8	0.05
D00004836	3.61	97.2	23.2	76	29.2	3.25	4.1	0.03
D00004851	0.72	128	18.0	23	90.6	5.66	8.5	0.03
D00004852	0.26	119	26.0	77	172	7.46	11.3	0.03
D00004853	0.55	89.5	20.0	29	44.9	5.31	8.9	<0.01
D00004854	0.50	81.2	10.8	17	33.3	3.88	5.2	0.03
D00004855	0.75	80.4	15.7	15	104	4.18	5.2	0.02
D00004856	0.58	44.4	15.3	13	102	4.16	2.8	0.07
D00004857	0.37	46.6	17.3	23	77.2	4.50	5.0	<0.01
D00004858	0.10	99.1	9.3	18	60.7	3.76	5.5	0.01
D00004859	0.64	241	12.9	13	626	4.65	7.1	0.01
D00004860	0.69	270	13.8	13	651	4.82	8.1	0.05
D00004861	1.90	212	13.7	6	156	2.60	2.9	0.05
D00004862	0.25	112	15.4	31	212	4.60	7.1	0.01
D00004863	1.19	179	11.4	14	136	3.95	5.5	<0.01
D00004864	0.27	177	15.0	11	181	5.22	7.9	0.02
D00004865	0.33	91.0	15.8	26	115	4.79	6.7	0.02
D00004866	0.21	77.6	19.8	32	107	6.55	9.4	0.04
D00004867	0.23	108	10.9	18	29.6	3.73	6.1	0.05
D00004868	0.14	86.1	11.2	19	58.2	3.62	5.2	0.03
D00004869	0.38	93.9	17.4	33	65.1	5.07	7.5	0.04
D00004870	0.26	76.4	15.0	36	58.3	4.48	7.0	0.01
D00004871	0.51	75.2	12.1	17	30.4	3.95	6.1	0.05
D00004872	0.37	135	10.4	25	159	2.85	4.5	0.08
D00004873	0.09	37.8	3.3	12	16.6	1.35	3.3	0.02
D00004874	0.17	117	6.4	13	25.5	2.01	3.6	0.02
D00004875	0.16	37.0	4.1	11	14.3	1.53	3.3	0.03
D00004876	0.61	45.7	27.7	91	85.5	5.61	8.4	0.05

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00004877	0.17	150	9.2	12	109	3.61	4.0	0.04
D00004878	0.39	99.2	25.4	27	154	9.27	14.5	0.11
D00006201	0.16	42.1	3.9	29	12.1	1.87	7.9	0.02
D00006202	0.31	93.0	18.1	19	9.3	5.80	7.0	<0.01
D00006203	0.01	19.4	1.5	2	6.1	0.57	1.5	<0.01
D00006204	0.10	52.1	7.0	13	13.2	2.42	3.5	0.04
D00006205	0.12	78.7	5.4	11	12.9	2.03	3.9	0.03
D00006206	0.05	36.6	5.9	10	6.2	2.46	2.4	<0.01
D00006207	0.05	35.8	3.4	15	7.9	1.95	2.9	<0.01
D00006208	0.07	38.2	4.7	15	10.2	2.18	3.3	<0.01
D00006209	0.08	94.1	8.7	18	13.1	2.65	4.1	0.03
D00006210	0.17	23.1	6.7	7	38.8	8.28	7.0	0.03
D00006211	0.06	30.9	5.0	12	9.0	2.66	3.8	0.02
D00006212	0.22	17.8	62.2	54	131	5.15	3.2	0.02
D00006213	1.52	114	16.7	49	25.3	4.81	5.8	0.01
D00006214	0.32	76.5	13.4	15	11.3	7.10	4.8	0.05
D00006215	0.15	50.8	11.0	29	13.5	3.67	5.0	0.02
D00006216	0.12	69.6	6.9	17	15.1	2.28	4.3	0.02
D00006217	0.03	2.30	0.4	2	1.1	0.15	0.5	<0.01
D00006218	0.47	89.0	9.0	23	10.6	3.31	5.7	<0.01
D00006219	0.05	7.61	1.0	1	2.9	0.51	1.4	0.02
D00006220	0.11	19.3	0.6	<1	2.1	0.26	1.0	0.02
D00006221	0.09	18.0	1.0	3	1.8	0.39	1.1	<0.01
D00006222	0.06	40.5	2.2	7	6.2	0.97	2.7	<0.01
D00006223	0.13	83.7	11.4	24	8.6	3.73	6.3	0.01
D00006224	0.18	113	7.0	18	8.3	2.90	5.8	0.01
D00006225	0.08	47.4	2.4	4	4.9	1.37	3.0	<0.01
D00006226	0.44	50.0	3.5	9	10.1	1.08	3.0	0.03
D00006227	0.21	56.5	9.4	15	10.7	1.84	4.2	0.03
D00006228	0.84	89.9	8.4	19	20.7	2.58	4.9	<0.01
D00006229	4.39	122	6.6	22	42.9	1.88	5.7	0.02
D00006230	0.02	2.52	0.6	1	1.3	0.20	0.9	<0.01
D00006701	0.06	130	9.8	26	13.5	2.32	3.8	<0.01
D00006702	0.05	79.6	2.4	7	4.9	1.37	2.7	<0.01
D00006703	0.29	109	16.2	19	12.8	4.80	7.1	0.03
D00006704	0.10	157	7.8	19	10.1	3.01	6.0	0.02

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00004831	0.48	66.2	19.3	77	117	4.58	5.2	<0.01
*Rep D00004871	0.47	73.6	12.0	17	30.2	3.89	6.0	0.04
*Rep D00006220	0.11	18.9	0.5	2	1.8	0.23	0.9	<0.01
*Std OREAS920	0.07	72.1	14.9	44	115	3.72	6.6	<0.01
*Std OREAS920	0.06	70.5	14.7	43	108	3.70	6.6	<0.01
*Std OREAS151B	0.58	16.0	11.4	28	1910	3.37	7.2	0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00004823	0.17	50.3	0.15	818	1.97	<0.01	23.4	580
D00004824	0.15	52.4	0.12	619	1.93	0.01	13.4	460
D00004825	0.12	52.5	0.12	571	2.20	0.01	15.6	440
D00004826	0.10	27.6	0.87	896	1.24	<0.01	43.3	580
D00004827	0.19	62.1	0.54	1050	1.76	<0.01	39.9	500
D00004828	0.21	18.4	0.81	873	2.15	0.01	36.3	400
D00004829	0.27	42.3	0.50	605	2.54	0.01	22.7	380
D00004830	0.46	46.9	0.63	668	3.92	0.02	31.7	440
D00004831	0.77	29.1	1.38	847	2.63	0.01	45.9	370
D00004832	0.96	44.2	1.38	1040	4.43	0.02	38.7	600
D00004833	0.73	14.5	2.84	1020	0.92	0.01	86.9	540
D00004834	0.18	40.1	0.15	900	2.00	0.01	23.2	940
D00004835	0.16	67.6	0.18	962	1.60	0.01	20.6	620
D00004836	0.12	51.6	0.93	1080	0.94	<0.01	52.9	880
D00004851	1.33	63.7	1.43	1270	5.37	0.01	14.6	1090
D00004852	1.98	61.7	2.40	1830	5.06	0.02	33.3	890
D00004853	1.27	50.1	1.58	1120	2.78	0.01	14.6	1660
D00004854	0.31	38.2	0.66	1260	3.46	0.01	10.7	850
D00004855	0.57	40.1	0.67	1430	6.08	0.02	11.5	1160
D00004856	0.21	25.4	0.28	2010	6.63	0.01	19.7	830
D00004857	0.76	21.6	0.86	1360	5.21	0.02	17.0	1550
D00004858	0.49	54.2	0.61	599	5.21	0.02	8.2	530
D00004859	0.77	130	0.83	949	5.00	0.01	10.1	790
D00004860	0.86	141	0.95	1120	5.07	0.01	9.4	740
D00004861	0.21	108	0.13	1430	3.88	0.01	7.5	830
D00004862	0.99	54.9	1.28	883	3.90	0.02	16.2	670
D00004863	0.64	99.0	0.73	754	4.47	0.01	10.4	730
D00004864	0.80	108	0.99	981	6.12	0.01	9.0	960
D00004865	0.79	47.7	1.00	844	5.63	0.01	15.9	1140
D00004866	1.39	37.0	1.57	1130	5.48	0.01	17.4	1990
D00004867	0.32	59.9	0.61	1150	3.80	0.01	10.5	880
D00004868	0.45	45.1	0.68	579	3.88	0.01	12.7	1090
D00004869	1.01	52.0	1.35	1080	4.19	0.02	21.7	1130
D00004870	0.72	43.4	1.10	745	3.79	0.01	20.2	880
D00004871	0.50	40.9	0.85	954	3.68	0.01	11.2	970
D00004872	0.19	61.9	0.53	608	2.67	0.01	23.8	900
D00004873	0.11	20.3	0.23	197	1.45	0.03	7.5	590
D00004874	0.19	83.2	0.41	374	1.73	0.01	12.8	840
D00004875	0.14	12.0	0.20	239	3.83	0.01	7.4	690
D00004876	1.66	23.5	2.22	1980	4.36	0.02	61.3	720

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00004877	0.36	73.3	0.32	494	4.67	0.01	10.2	790
D00004878	2.68	39.9	2.29	1810	6.44	0.02	17.1	2300
D00006201	0.17	20.4	0.29	128	1.91	0.01	13.5	310
D00006202	1.05	57.0	0.95	523	1.30	0.01	8.2	1240
D00006203	0.07	11.2	0.05	34	0.34	0.03	1.6	460
D00006204	0.24	27.8	0.17	668	2.22	0.01	10.3	1230
D00006205	0.24	46.4	0.16	440	1.55	0.02	9.3	930
D00006206	0.26	17.7	0.19	306	1.40	0.01	7.2	660
D00006207	0.21	17.7	0.25	159	1.25	0.01	9.4	730
D00006208	0.20	18.9	0.30	218	1.52	0.01	12.3	600
D00006209	0.22	42.6	0.32	446	2.34	0.01	15.9	450
D00006210	1.05	11.9	0.51	3230	2.79	0.01	7.4	890
D00006211	0.34	15.2	0.23	352	2.37	0.01	8.1	660
D00006212	0.54	8.8	0.54	3080	1.64	<0.01	94.3	780
D00006213	0.53	37.8	0.77	1500	2.69	<0.01	23.9	550
D00006214	0.46	35.9	0.47	509	1.46	<0.01	8.4	1080
D00006215	0.48	21.1	0.49	304	1.81	<0.01	15.8	400
D00006216	0.25	29.5	0.22	170	2.67	<0.01	10.6	270
D00006217	0.02	1.9	<0.01	8	0.11	0.03	<0.5	200
D00006218	0.47	38.3	0.57	289	1.47	0.01	13.4	990
D00006219	0.04	3.9	0.02	56	0.39	0.03	1.4	550
D00006220	0.04	14.9	0.02	15	0.28	0.03	1.0	630
D00006221	0.04	11.1	0.03	27	0.23	0.03	1.3	420
D00006222	0.11	18.8	0.04	60	1.06	0.01	6.4	230
D00006223	0.63	39.8	0.71	382	1.49	<0.01	11.1	630
D00006224	0.49	63.8	0.56	243	1.18	<0.01	14.1	710
D00006225	0.21	22.5	0.10	75	0.91	<0.01	3.3	240
D00006226	0.11	57.0	0.17	369	0.59	0.02	5.4	570
D00006227	0.16	35.8	0.29	758	1.18	0.02	9.4	710
D00006228	0.32	42.2	0.64	375	1.31	0.01	13.0	1270
D00006229	0.21	78.4	0.64	185	2.01	0.01	17.9	940
D00006230	0.02	1.4	0.03	14	0.07	0.04	0.7	230
D00006701	0.21	58.4	0.40	551	1.56	<0.01	15.7	760
D00006702	0.19	37.5	0.14	92	1.15	<0.01	3.7	730
D00006703	0.76	61.0	0.71	781	2.35	<0.01	12.9	1010
D00006704	0.39	84.9	0.47	398	1.61	<0.01	10.5	590

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00004831	0.82	29.5	1.48	859	2.78	0.02	47.7	380
*Rep D00004871	0.50	40.4	0.87	947	3.68	0.01	11.0	960
*Rep D00006220	0.03	13.9	0.02	12	0.24	0.03	0.7	550
*Std OREAS920	0.44	35.9	1.10	523	0.38	0.03	39.6	730
*Std OREAS920	0.43	34.7	1.07	531	0.36	0.03	39.4	680
*Std OREAS151B	0.42	7.1	1.41	279	58.0	0.16	15.1	510
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00004823	33.4	21.8	0.44	1.2	<0.3	6.5	14.7	0.03
D00004824	39.4	21.6	0.73	1.2	<0.3	6.3	13.9	0.03
D00004825	43.4	13.0	0.96	0.9	<0.3	5.4	11.4	0.02
D00004826	25.3	12.9	0.23	4.0	<0.3	7.2	14.7	0.05
D00004827	49.6	28.7	0.36	3.2	<0.3	13.3	20.5	0.05
D00004828	36.7	29.3	0.27	4.4	<0.3	14.6	13.1	0.08
D00004829	73.5	29.1	0.25	1.9	<0.3	22.0	25.1	0.05
D00004830	113	40.2	0.71	3.0	<0.3	37.7	20.8	0.08
D00004831	51.3	68.2	0.16	4.0	0.5	24.7	12.4	0.18
D00004832	119	74.8	0.45	4.5	0.6	80.0	23.0	0.16
D00004833	15.1	87.1	0.07	5.1	<0.3	16.3	5.6	0.23
D00004834	108	15.5	1.73	1.5	<0.3	14.8	6.5	0.02
D00004835	70.5	21.6	0.66	1.3	<0.3	12.1	4.9	0.02
D00004836	34.9	13.5	0.32	5.7	<0.3	9.5	15.5	0.03
D00004851	94.7	150	0.07	7.0	1.1	33.4	22.6	0.30
D00004852	63.0	203	0.05	12.7	1.2	47.0	22.7	0.46
D00004853	27.4	142	0.06	9.4	0.8	36.4	13.7	0.40
D00004854	220	52.8	0.13	4.8	0.6	13.8	14.9	0.13
D00004855	65.9	47.3	0.13	4.2	0.5	31.7	14.2	0.15
D00004856	86.2	25.2	0.12	3.1	0.4	26.6	14.0	0.02
D00004857	19.6	80.2	0.06	4.2	0.5	45.9	15.4	0.20
D00004858	9.1	56.5	0.08	2.4	0.9	26.4	15.0	0.11
D00004859	75.2	72.1	0.12	3.1	1.0	52.8	32.3	0.12
D00004860	67.2	81.4	0.13	3.3	1.1	41.0	32.5	0.13
D00004861	48.9	15.4	0.16	1.6	0.4	48.3	20.1	0.01
D00004862	37.1	95.9	0.07	4.7	1.8	73.5	22.5	0.26
D00004863	47.4	68.6	0.08	3.4	1.0	32.4	27.4	0.14
D00004864	84.7	112	0.12	5.4	1.7	57.3	25.7	0.28
D00004865	26.9	94.9	0.07	6.2	0.9	32.6	17.8	0.26
D00004866	20.7	126	0.11	9.3	1.3	39.5	14.0	0.41
D00004867	82.6	59.1	0.17	3.9	0.6	18.5	11.3	0.10
D00004868	36.6	50.9	0.26	3.7	0.6	16.2	12.8	0.15
D00004869	55.3	125	0.10	5.8	0.9	29.8	17.6	0.29
D00004870	34.1	84.6	0.31	5.7	0.8	18.2	13.7	0.25
D00004871	70.2	72.7	0.11	5.5	0.6	25.0	15.3	0.17
D00004872	41.8	31.1	0.22	2.7	0.4	23.1	11.4	0.05
D00004873	13.1	13.3	0.12	1.0	<0.3	12.9	2.5	0.02
D00004874	14.2	22.0	0.20	2.3	<0.3	18.2	18.4	0.06
D00004875	17.7	18.8	0.23	0.7	0.4	5.2	1.8	0.03
D00004876	52.0	179	0.12	7.7	0.7	55.6	13.0	0.29

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00004877	113	30.2	0.24	1.5	0.4	36.3	13.7	0.05
D00004878	108	188	0.11	15.4	1.6	41.8	14.5	0.64
D00006201	55.7	21.1	0.37	2.1	1.5	7.8	3.5	0.10
D00006202	24.7	101	0.17	9.5	0.4	18.7	16.2	0.34
D00006203	3.2	5.6	<0.05	0.3	<0.3	5.9	0.5	0.02
D00006204	12.9	23.3	0.25	1.7	0.3	14.1	2.6	0.02
D00006205	34.5	19.7	0.16	0.7	0.4	12.6	0.7	0.02
D00006206	13.1	28.2	0.16	1.8	<0.3	8.2	5.4	0.04
D00006207	7.0	19.3	0.30	1.1	0.3	7.6	1.2	0.04
D00006208	13.3	21.8	0.39	1.5	0.3	6.4	3.8	0.05
D00006209	13.1	19.2	0.42	1.9	0.3	7.4	7.5	0.05
D00006210	4.3	115	0.08	4.3	0.9	20.1	6.2	0.19
D00006211	12.0	35.1	0.26	0.8	0.4	5.5	0.7	0.06
D00006212	15.3	60.0	0.11	5.9	<0.3	33.8	2.2	0.18
D00006213	18.8	54.7	0.18	5.5	0.4	8.9	13.8	0.22
D00006214	11.7	50.0	0.19	4.6	0.3	15.9	15.7	0.17
D00006215	16.6	53.5	0.29	4.2	0.4	6.1	8.4	0.18
D00006216	15.8	37.4	0.34	2.2	0.4	4.8	13.5	0.09
D00006217	0.6	0.7	<0.05	0.2	<0.3	3.8	0.2	<0.01
D00006218	18.7	48.9	0.26	3.5	0.4	9.7	9.2	0.14
D00006219	5.0	4.1	<0.05	0.3	<0.3	3.8	0.6	0.02
D00006220	4.2	2.6	<0.05	0.2	<0.3	6.8	0.2	0.01
D00006221	8.2	2.7	<0.05	0.1	<0.3	5.4	<0.1	0.01
D00006222	8.5	11.1	0.21	0.5	0.4	3.2	0.4	0.03
D00006223	28.2	53.2	0.17	4.1	0.4	11.4	7.0	0.13
D00006224	16.8	49.2	0.15	3.2	0.4	10.4	12.8	0.12
D00006225	12.5	24.7	0.12	1.0	<0.3	2.4	6.0	0.04
D00006226	13.8	17.2	0.10	0.9	0.4	24.4	1.4	0.03
D00006227	20.6	26.8	0.14	1.3	<0.3	14.6	1.0	0.04
D00006228	17.5	30.4	0.11	3.1	<0.3	19.6	9.3	0.10
D00006229	24.0	24.9	0.08	2.7	<0.3	39.3	6.1	0.07
D00006230	0.7	0.9	<0.05	0.2	<0.3	7.3	0.3	0.02
D00006701	16.7	25.4	0.19	2.3	0.3	8.7	14.5	0.06
D00006702	7.9	22.4	0.06	1.1	<0.3	6.9	9.0	0.04
D00006703	28.6	78.6	0.12	5.4	0.5	14.8	15.8	0.22
D00006704	13.8	43.5	0.17	3.3	0.5	5.7	14.3	0.12

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00004831	53.3	70.7	0.14	4.2	0.5	25.1	12.9	0.18
*Rep D00004871	69.7	72.4	0.10	5.4	0.6	24.9	15.2	0.17
*Rep D00006220	4.3	2.1	<0.05	0.1	<0.3	5.9	0.2	<0.01
*Std OREAS920	19.3	23.8	0.51	2.9	1.0	16.8	16.4	0.12
*Std OREAS920	21.1	22.4	0.50	2.8	0.9	16.2	16.1	0.11
*Std OREAS151B	39.9	19.3	0.49	9.1	1.1	36.2	2.4	0.07
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00004823	0.37	4.79	12	0.2	25.3	483
D00004824	0.38	4.27	15	0.4	23.1	464
D00004825	0.29	5.07	13	0.4	22.9	461
D00004826	0.28	2.02	37	0.2	14.6	476
D00004827	0.49	2.78	23	0.2	36.7	1180
D00004828	0.45	1.90	37	0.2	10.7	606
D00004829	0.46	2.81	17	0.2	12.0	373
D00004830	0.54	3.75	25	0.2	15.3	486
D00004831	0.56	2.66	44	0.3	14.2	288
D00004832	0.77	3.50	48	0.2	17.0	432
D00004833	0.74	1.74	80	0.2	12.9	329
D00004834	0.30	2.84	16	0.3	19.2	473
D00004835	0.36	5.91	16	0.3	35.6	466
D00004836	0.35	2.85	41	0.2	24.3	767
D00004851	1.01	6.15	62	0.3	16.9	216
D00004852	1.47	7.55	117	0.1	22.1	178
D00004853	1.22	4.04	96	0.3	18.6	175
D00004854	0.56	5.68	44	0.1	15.7	216
D00004855	0.46	6.50	37	0.1	17.5	158
D00004856	0.32	9.68	17	0.1	26.8	133
D00004857	0.72	5.60	36	<0.1	15.4	156
D00004858	0.40	4.96	21	<0.1	7.08	99
D00004859	0.72	13.4	24	0.1	42.8	151
D00004860	0.81	14.0	24	0.1	47.9	156
D00004861	0.20	10.2	11	0.2	40.2	398
D00004862	0.76	5.26	39	0.1	13.5	122
D00004863	0.50	7.92	26	0.1	16.2	224
D00004864	0.86	8.58	47	0.1	26.6	137
D00004865	0.67	5.66	56	0.1	14.9	146
D00004866	0.82	4.96	83	0.1	16.6	140
D00004867	0.54	6.41	46	0.2	17.3	136
D00004868	0.42	4.58	44	0.2	10.9	92
D00004869	0.84	4.36	53	0.1	13.0	186
D00004870	0.69	3.22	63	0.2	8.01	132
D00004871	0.71	5.85	53	0.1	15.2	161
D00004872	0.26	4.40	34	0.2	19.1	175
D00004873	0.13	2.10	18	0.1	7.03	51
D00004874	0.20	5.30	20	0.2	28.7	85
D00004875	0.16	2.21	18	0.2	6.00	66
D00004876	1.32	5.02	65	0.2	13.9	322

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00004877	0.25	6.89	23	0.2	8.29	58
D00004878	1.05	5.16	130	0.2	18.0	136
D00006201	0.14	0.76	40	0.7	3.82	50
D00006202	0.83	0.85	115	0.1	14.1	221
D00006203	0.04	0.36	12	<0.1	2.18	9
D00006204	0.19	1.64	22	0.3	13.8	37
D00006205	0.15	1.25	15	0.2	8.54	60
D00006206	0.22	0.71	19	0.1	6.36	36
D00006207	0.16	0.75	23	0.3	5.60	32
D00006208	0.17	0.83	23	0.2	6.61	44
D00006209	0.18	1.22	27	0.2	7.97	49
D00006210	0.66	2.65	14	<0.1	13.1	44
D00006211	0.25	0.88	21	0.2	5.74	31
D00006212	0.49	0.46	44	0.1	39.3	57
D00006213	0.46	1.21	60	<0.1	8.16	1040
D00006214	0.41	1.24	49	0.1	14.9	58
D00006215	0.45	1.10	60	0.2	6.38	58
D00006216	0.27	1.00	38	0.3	5.62	43
D00006217	<0.02	0.23	6	<0.1	0.52	3
D00006218	0.47	1.26	50	0.2	12.6	147
D00006219	0.04	0.42	13	<0.1	0.98	9
D00006220	<0.02	0.72	5	<0.1	3.13	7
D00006221	0.03	0.51	10	<0.1	3.95	8
D00006222	0.09	0.59	20	0.2	3.52	29
D00006223	0.44	1.27	66	0.1	12.6	72
D00006224	0.46	1.33	34	0.1	15.8	68
D00006225	0.18	0.68	14	0.2	5.50	38
D00006226	0.10	0.92	17	<0.1	11.4	58
D00006227	0.20	1.18	29	0.1	12.1	83
D00006228	0.23	2.49	36	0.1	19.0	217
D00006229	0.30	6.21	31	<0.1	31.8	293
D00006230	<0.02	0.11	7	<0.1	0.60	5
D00006701	0.23	0.98	26	0.2	12.1	37
D00006702	0.18	0.69	10	0.4	8.45	29
D00006703	0.70	1.40	71	0.1	15.5	248
D00006704	0.32	2.46	35	0.2	17.3	84

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Final : VC172784 Order: PO# BMC17-01016

Report File No.: 0000024827

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00004831	0.57	2.97	47	0.2	12.9	300
*Rep D00004871	0.69	5.75	52	0.2	15.2	161
*Rep D00006220	<0.02	0.67	6	<0.1	3.14	6
*Std OREAS920	0.16	2.17	23	0.5	17.2	111
*Std OREAS920	0.16	2.15	25	0.5	17.1	107
*Std OREAS151B	0.13	0.62	150	0.7	11.2	242
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172785
[Report File No.: 0000025098]

Date: October 04, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01016
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006705	0.330	5	0.04	0.75	3	159	0.26	0.07
D00006706	0.310	5	0.03	0.65	3	70	0.17	0.12
D00006707	0.440	<5	0.09	1.24	6	103	0.30	0.17
D00006708	0.300	<5	0.04	1.13	3	149	0.26	0.15
D00006709	0.435	<5	0.13	0.99	5	151	0.25	0.20
D00006710	0.405	<5	0.06	0.85	1	76	0.28	0.16
D00006711	0.290	<5	0.24	0.88	6	178	0.59	0.36
D00006712	0.315	6	0.61	1.23	17	236	0.97	0.46
D00006713	0.210	<5	0.05	0.64	8	46	1.17	0.04
D00006714	0.145	7	0.46	0.78	5	136	1.09	0.82
D00006715	0.300	18	0.24	0.79	10	110	2.79	0.25
D00006716	0.365	8	0.19	0.71	2	368	1.19	0.36
D00006717	0.370	9	0.31	1.41	4	112	1.08	0.25
D00006718	0.500	5	0.12	1.51	2	132	0.73	0.29
D00006719	0.130	7	0.09	0.44	<1	43	0.09	0.44
D00006720	0.400	5	0.02	1.30	5	60	0.65	0.11
D00006721	0.195	6	0.03	0.58	2	37	0.39	0.03
D00006722	0.310	5	0.05	0.78	2	137	0.56	0.05
D00006723	0.365	7	0.13	1.86	8	136	0.41	0.38
D00006724	0.490	7	0.07	1.59	13	105	0.46	0.35
D00006725	0.140	8	0.93	1.38	15	126	0.67	0.27
D00006726	0.495	9	1.23	2.59	31	156	1.47	0.33
D00006727	0.220	6	0.27	1.87	18	139	0.84	0.33
D00006728	0.215	6	0.26	2.03	17	149	0.57	0.30
D00006729	0.410	9	0.12	1.44	9	94	0.45	0.28
D00006730	0.365	6	0.19	3.13	17	149	0.25	0.52
D00006731	0.440	<5	0.10	1.96	14	115	0.39	0.27
D00006732	0.475	<5	0.05	2.00	19	110	0.39	0.27
D00006733	0.330	6	0.06	1.78	16	95	0.45	0.24
D00006734	0.420	<5	0.07	1.74	4	71	0.53	0.16
D00006735	0.560	5	0.03	1.61	5	122	0.23	0.23
D00006736	0.415	11	0.05	1.27	7	127	0.26	0.20
D00006737	0.385	8	0.05	1.27	18	115	0.25	0.22
D00006738	0.300	<5	0.08	1.39	9	141	0.20	0.35
D00006739	0.340	5	0.18	0.49	14	70	0.14	0.19
D00006740	0.490	11	0.22	0.52	10	65	0.13	0.22
D00006741	0.225	8	0.26	0.50	47	62	0.15	0.09
D00006742	0.285	13	0.62	0.68	43	128	0.09	0.36
D00006743	0.350	14	0.35	0.53	50	65	0.22	0.07
D00006744	0.285	9	0.34	0.83	33	159	0.17	0.33

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006745	0.160	8	0.11	0.53	15	106	0.15	0.10
D00006746	0.215	<5	0.17	0.92	10	159	0.23	0.27
D00006747	0.300	6	0.21	1.14	11	45	0.22	0.17
D00006748	0.235	12	0.14	1.07	3	69	0.16	0.12
D00006749	0.295	11	0.39	0.81	3	58	0.23	0.07
D00006750	0.505	11	0.14	1.49	8	95	0.29	0.50
D00006751	0.190	8	0.69	1.15	4	166	0.21	0.23
D00006752	0.385	<5	0.12	1.76	8	101	0.28	0.18
D00006753	0.395	<5	0.12	1.75	8	60	0.25	0.19
D00006754	0.330	<5	0.15	1.87	10	89	0.31	0.24
D00006755	0.435	12	0.14	1.66	9	107	0.32	0.23
D00006756	0.305	6	0.10	1.93	10	100	0.31	0.24
D00006757	0.280	19	0.17	0.96	10	108	0.16	0.44
D00006758	0.345	<5	0.06	0.61	14	96	0.28	0.14
D00006759	0.170	5	0.18	0.74	49	115	0.31	0.49
D00006760	0.110	8	<0.01	0.01	<1	<5	<0.02	<0.01
D00006761	0.230	8	0.18	0.65	58	128	0.25	0.37
D00006762	0.435	14	0.16	0.55	18	116	0.30	0.34
D00006763	0.370	7	0.02	0.90	9	69	0.20	0.08
D00006764	0.325	6	0.02	1.15	7	90	0.20	0.23
D00006765	0.375	9	0.06	1.05	5	114	0.21	0.25
D00006766	0.330	8	0.23	1.14	10	190	0.33	0.39
D00006767	0.455	7	0.19	0.95	8	127	0.19	0.34
D00006768	0.310	8	0.11	0.67	12	68	0.15	0.14
D00006769	0.260	6	0.09	0.55	9	68	0.24	0.11
D00006770	0.255	7	0.09	0.80	14	62	0.27	0.24
D00006771	0.250	9	0.13	0.58	11	47	0.35	0.08
D00006772	0.320	6	0.32	0.90	11	42	0.32	0.14
D00006773	0.235	8	0.07	0.68	6	84	0.22	0.09
D00006774	0.365	<5	0.08	0.48	7	74	0.18	0.13
D00006775	0.440	<5	0.17	1.51	7	139	0.16	0.40
D00006776	0.470	19	0.10	1.60	38	185	0.19	0.29
D00006777	0.480	6	0.32	1.99	23	174	0.29	0.56
D00006778	0.320	10	0.05	0.67	4	77	0.24	0.12
D00006779	0.310	7	0.11	1.18	11	95	0.30	0.15
D00006780	0.395	7	0.13	0.65	10	64	0.27	0.07
*Std OREAS151B		75						
*Std OXK119		3660						
*Std AMIS0474		164						
*Blk BLANK		<5						

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Final : VC172785 Order: PO# BMC17-01016

Report File No.: 0000025098

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00006721		0.03	0.60	<1	39	0.41	0.03
*Rep D00006750		0.12	1.48	9	95	0.27	0.50
*Rep D00006766		0.23	1.21	9	194	0.35	0.40
*Std OREAS920		0.09	2.48	6	83	0.68	0.37
*Std OREAS151B		0.58	2.61	33	69	0.39	1.43
*Std OREAS902		0.30	0.57	602	16	8.74	4.37
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00006718	<5						
*Rep D00006750	<5						
*Rep D00006776	10						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006705	0.14	76.2	5.4	14	9.1	1.81	4.9	0.05
D00006706	0.11	66.7	4.1	7	6.6	1.52	3.0	<0.01
D00006707	0.49	98.2	7.9	20	16.8	2.41	5.1	<0.01
D00006708	0.16	105	4.7	12	11.0	1.80	5.3	0.01
D00006709	0.21	133	5.8	12	13.2	2.14	5.2	<0.01
D00006710	0.18	96.0	2.9	11	6.5	1.16	4.0	0.02
D00006711	1.06	174	17.2	11	11.8	2.78	4.6	0.02
D00006712	1.68	101	20.4	21	21.3	3.26	5.4	0.04
D00006713	0.30	32.8	3.7	11	36.7	1.75	3.9	0.03
D00006714	8.67	114	11.0	8	160	2.22	4.0	0.05
D00006715	1.35	57.1	7.1	13	163	2.69	3.0	0.02
D00006716	2.85	54.8	4.6	22	42.2	1.18	3.5	0.05
D00006717	0.46	30.2	8.7	40	30.8	2.63	4.8	0.02
D00006718	0.81	82.4	9.0	31	35.3	2.34	6.3	0.02
D00006719	0.71	13.9	1.2	4	39.9	0.26	1.9	<0.01
D00006720	0.17	46.9	7.3	19	19.9	2.43	5.2	<0.01
D00006721	0.07	19.4	1.9	7	10.6	0.90	3.4	<0.01
D00006722	0.13	27.3	4.9	14	18.6	1.81	6.8	0.02
D00006723	0.32	51.0	8.3	29	19.3	3.67	7.9	<0.01
D00006724	0.15	85.4	9.9	27	19.7	3.35	6.7	<0.01
D00006725	0.35	70.0	5.3	17	42.7	2.30	6.6	0.01
D00006726	0.47	134	8.4	45	64.5	4.21	9.7	0.07
D00006727	0.28	90.6	14.2	28	44.1	3.80	7.3	0.02
D00006728	0.51	56.3	12.2	32	28.9	4.12	8.0	0.01
D00006729	0.26	78.5	9.5	20	23.4	2.99	6.1	<0.01
D00006730	0.37	76.6	22.6	88	37.8	5.39	10.2	<0.01
D00006731	0.29	94.7	16.1	33	21.4	4.36	9.0	<0.01
D00006732	0.27	79.6	10.5	40	20.9	4.35	8.2	<0.01
D00006733	0.26	30.4	8.8	31	16.3	3.49	6.9	<0.01
D00006734	0.14	77.0	6.0	14	15.4	4.05	6.8	<0.01
D00006735	0.25	92.5	10.9	24	21.9	3.14	6.6	<0.01
D00006736	0.20	118	5.7	17	14.2	2.70	5.5	<0.01
D00006737	0.17	77.8	7.1	23	17.1	2.34	4.4	<0.01
D00006738	0.12	53.9	9.3	18	9.1	3.19	5.8	0.02
D00006739	0.60	61.0	8.0	8	14.1	2.23	2.1	<0.01
D00006740	0.68	57.0	7.8	8	14.2	2.23	2.1	<0.01
D00006741	0.25	50.2	2.6	6	7.6	1.33	3.3	0.01
D00006742	2.17	23.7	22.0	24	37.4	5.07	2.2	0.09
D00006743	0.27	49.3	4.0	8	16.1	1.73	2.9	0.02
D00006744	0.44	40.5	6.6	16	14.2	1.99	3.2	0.03

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006745	0.21	42.5	3.3	8	7.6	1.17	2.5	0.01
D00006746	0.31	56.4	9.1	14	10.7	1.81	3.7	0.02
D00006747	0.25	36.9	6.5	19	11.6	2.54	5.9	<0.01
D00006748	0.06	36.1	10.9	16	8.2	1.93	4.4	0.02
D00006749	0.25	33.3	4.0	16	29.2	1.99	5.9	<0.01
D00006750	0.70	74.7	11.0	35	26.0	3.13	5.6	<0.01
D00006751	0.73	52.7	2.9	31	20.9	1.79	4.5	0.06
D00006752	0.35	48.4	10.7	29	27.3	3.78	7.2	0.01
D00006753	0.34	39.6	10.3	32	21.5	3.59	6.2	<0.01
D00006754	0.20	61.5	11.0	32	27.3	3.68	6.5	<0.01
D00006755	0.15	65.9	8.6	32	26.9	3.48	7.0	<0.01
D00006756	0.42	84.5	16.1	29	30.5	4.02	6.9	0.01
D00006757	0.06	22.7	3.4	9	7.4	1.63	3.3	<0.01
D00006758	0.18	33.8	2.6	6	5.1	1.14	4.2	<0.01
D00006759	0.31	22.6	9.8	8	15.5	3.30	2.3	0.02
D00006760	<0.01	0.99	<0.1	<1	0.5	0.02	<0.1	<0.01
D00006761	0.21	36.1	5.3	3	8.4	2.89	2.5	0.02
D00006762	0.22	132	4.2	2	8.2	2.21	2.9	0.02
D00006763	0.14	46.8	3.6	9	7.7	2.30	6.3	0.01
D00006764	0.18	58.2	6.3	17	8.7	2.62	4.5	<0.01
D00006765	0.16	67.6	5.9	10	6.7	2.54	5.6	0.01
D00006766	0.09	99.4	5.7	13	10.1	2.61	5.1	0.03
D00006767	0.05	52.8	4.1	13	6.2	1.84	4.0	0.02
D00006768	0.07	40.9	3.5	11	6.4	1.76	2.8	0.01
D00006769	0.14	30.2	3.7	10	7.0	1.80	3.3	0.03
D00006770	0.17	35.2	5.0	14	6.5	2.41	4.0	0.03
D00006771	0.13	42.1	3.4	10	7.1	1.44	4.2	0.03
D00006772	0.24	44.4	4.7	15	7.7	2.12	3.5	0.03
D00006773	0.14	35.6	1.7	8	4.0	0.83	3.7	<0.01
D00006774	0.08	29.2	4.1	6	5.6	1.10	2.8	<0.01
D00006775	0.17	51.9	7.7	19	15.4	2.63	5.3	<0.01
D00006776	0.16	79.2	9.9	30	25.7	3.09	5.9	0.02
D00006777	0.26	28.6	9.3	31	15.9	3.62	7.2	<0.01
D00006778	0.06	66.6	5.0	11	8.8	2.21	3.3	0.01
D00006779	0.39	83.6	11.4	24	17.4	3.35	5.2	0.03
D00006780	0.19	54.5	4.6	14	11.6	2.18	4.6	0.03

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006721	0.09	18.9	2.1	7	10.4	0.90	3.5	<0.01
*Rep D00006750	0.69	70.3	10.6	34	24.6	3.08	5.3	<0.01
*Rep D00006766	0.09	103	6.0	15	10.6	2.72	5.5	0.04
*Std OREAS920	0.06	66.1	13.6	47	101	3.76	7.5	<0.01
*Std OREAS151B	0.66	14.6	10.5	25	1710	3.43	7.5	0.01
*Std OREAS902	0.03	30.6	986	23	2860	3.16	1.8	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006705	0.25	33.6	0.19	507	1.99	0.01	8.2	540
D00006706	0.22	30.1	0.19	175	1.17	0.01	7.0	410
D00006707	0.36	50.7	0.55	403	1.75	0.01	16.4	710
D00006708	0.12	90.8	0.24	317	1.53	0.02	7.7	1120
D00006709	0.37	63.5	0.40	334	1.84	0.01	9.0	810
D00006710	0.18	52.0	0.28	96	1.14	<0.01	6.8	720
D00006711	0.14	70.9	0.24	2380	2.90	0.01	9.4	1060
D00006712	0.20	46.9	0.63	2310	3.27	0.01	12.2	1210
D00006713	0.08	15.8	0.16	139	1.62	<0.01	8.7	350
D00006714	0.04	92.8	0.12	3240	2.23	0.02	15.4	1690
D00006715	0.08	35.4	0.35	579	3.08	0.01	11.6	690
D00006716	0.10	35.4	0.24	627	1.54	0.01	10.3	1630
D00006717	0.22	19.0	0.95	212	1.92	0.01	24.4	440
D00006718	0.23	41.3	0.82	241	2.00	0.01	15.9	610
D00006719	0.03	9.4	0.08	57	0.34	0.04	7.3	600
D00006720	0.17	22.0	0.48	454	2.08	0.01	14.7	480
D00006721	0.09	9.0	0.10	63	1.11	0.02	4.2	420
D00006722	0.34	13.8	0.37	316	2.65	0.01	11.2	420
D00006723	0.24	26.5	0.91	360	1.63	0.01	17.4	1080
D00006724	0.31	55.5	0.86	536	1.36	0.01	19.9	1140
D00006725	0.14	36.8	0.32	278	3.07	0.03	18.6	1340
D00006726	0.29	79.8	0.96	280	6.18	0.01	26.0	1280
D00006727	0.29	50.7	0.91	1490	3.21	0.01	19.5	1280
D00006728	0.47	24.9	1.11	628	2.65	0.01	23.1	1070
D00006729	0.38	47.0	0.70	380	2.65	0.01	18.1	1050
D00006730	1.27	40.3	2.32	915	2.03	0.02	46.6	1200
D00006731	0.34	31.7	1.15	850	2.12	0.01	20.5	1090
D00006732	0.22	35.6	1.06	527	1.97	0.01	24.2	1150
D00006733	0.07	15.0	0.86	347	2.18	0.01	18.0	1110
D00006734	0.44	24.7	0.60	356	1.78	0.01	10.7	730
D00006735	0.37	46.8	0.73	497	1.38	0.01	16.1	810
D00006736	0.19	61.5	0.44	288	1.50	0.01	16.7	790
D00006737	0.12	41.3	0.43	299	1.44	0.01	21.0	790
D00006738	0.51	25.3	0.59	838	1.81	0.01	10.3	900
D00006739	0.18	29.1	0.16	392	1.44	0.01	18.5	770
D00006740	0.17	28.5	0.16	420	1.41	0.01	19.3	800
D00006741	0.13	25.6	0.04	164	2.00	0.01	5.1	630
D00006742	0.21	11.7	0.25	1820	1.17	0.01	41.0	800
D00006743	0.16	25.0	0.10	140	1.75	0.01	11.1	480
D00006744	0.17	21.7	0.21	365	1.89	0.01	15.9	670

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006745	0.17	21.8	0.08	84	1.33	0.01	7.6	320
D00006746	0.17	29.9	0.22	1090	1.45	0.01	14.6	610
D00006747	0.10	19.4	0.60	218	0.99	0.01	15.4	810
D00006748	0.09	19.3	0.39	884	1.06	0.02	14.0	490
D00006749	0.08	18.9	0.32	116	1.44	0.01	17.3	470
D00006750	0.28	36.5	0.91	381	1.25	0.01	25.6	1530
D00006751	0.06	27.3	0.33	216	2.00	0.01	12.7	3300
D00006752	0.19	27.4	0.93	544	1.73	0.01	23.8	770
D00006753	0.10	18.0	0.91	683	1.16	<0.01	23.5	900
D00006754	0.25	32.3	0.95	398	1.43	0.01	23.3	880
D00006755	0.23	34.5	0.94	326	1.60	0.01	21.0	860
D00006756	0.25	44.0	0.97	842	1.59	0.01	29.3	930
D00006757	0.10	12.9	0.24	217	1.20	0.02	6.4	770
D00006758	0.12	17.6	0.09	371	1.35	0.01	4.0	430
D00006759	0.20	13.7	0.19	1160	2.27	0.02	15.8	590
D00006760	<0.01	0.6	<0.01	2	0.06	<0.01	<0.5	<50
D00006761	0.31	20.7	0.17	830	2.05	0.01	5.4	520
D00006762	0.32	69.5	0.12	1030	1.64	0.01	3.8	1150
D00006763	0.36	22.4	0.25	284	2.16	0.01	6.2	360
D00006764	0.36	31.2	0.45	292	1.18	0.01	13.5	900
D00006765	0.43	31.2	0.38	286	1.48	0.01	6.3	710
D00006766	0.44	75.5	0.33	388	1.92	0.01	8.7	800
D00006767	0.34	37.7	0.35	160	1.18	0.01	9.1	830
D00006768	0.25	25.4	0.20	174	1.24	0.01	7.5	550
D00006769	0.20	15.7	0.15	256	1.62	0.01	6.8	460
D00006770	0.12	19.8	0.23	317	1.27	0.01	9.1	780
D00006771	0.13	23.4	0.09	211	1.59	<0.01	6.6	330
D00006772	0.15	24.9	0.19	169	1.64	0.01	9.2	800
D00006773	0.14	24.4	0.11	74	0.66	0.01	3.5	450
D00006774	0.09	17.7	0.06	442	1.50	0.02	4.6	240
D00006775	0.11	33.3	0.61	239	1.07	0.01	16.5	960
D00006776	0.07	60.0	0.86	397	0.87	0.01	25.9	870
D00006777	0.10	15.9	0.75	281	1.52	0.01	20.4	590
D00006778	0.28	36.6	0.18	287	2.05	0.01	7.8	580
D00006779	0.20	39.5	0.31	1140	2.25	0.01	22.5	1080
D00006780	0.17	29.0	0.14	297	1.81	0.01	11.6	670

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006721	0.10	8.8	0.11	66	1.18	0.02	4.0	440
*Rep D00006750	0.27	33.3	0.89	385	1.16	<0.01	25.0	1560
*Rep D00006766	0.47	85.9	0.36	415	2.10	0.01	9.6	860
*Std OREAS920	0.51	39.0	1.11	545	0.55	0.03	40.0	750
*Std OREAS151B	0.45	7.6	1.44	288	59.5	0.18	14.7	540
*Std OREAS902	0.32	17.0	2.30	508	13.0	0.02	163	720
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006705	8.3	29.4	0.20	1.5	0.5	4.2	6.4	0.07
D00006706	5.3	24.0	0.16	1.2	<0.3	5.6	3.9	0.05
D00006707	14.5	31.3	0.45	2.9	0.4	10.3	17.0	0.11
D00006708	10.2	15.6	0.19	1.0	0.4	10.8	1.8	0.03
D00006709	10.8	37.7	0.22	2.1	0.3	10.5	14.2	0.10
D00006710	8.8	25.4	0.18	1.5	<0.3	7.5	10.5	0.04
D00006711	28.3	20.3	0.21	2.0	0.3	13.2	7.8	0.04
D00006712	73.9	25.2	0.24	3.2	0.4	13.2	7.5	0.07
D00006713	20.1	11.3	0.36	0.8	0.3	6.1	1.1	0.03
D00006714	18.9	4.4	0.29	1.1	<0.3	24.9	3.9	0.02
D00006715	46.5	11.3	0.26	1.7	<0.3	9.2	6.8	0.03
D00006716	12.6	12.1	0.20	1.6	0.4	11.5	2.4	0.03
D00006717	16.6	31.5	0.28	4.0	0.3	9.6	8.1	0.12
D00006718	26.1	34.1	0.24	4.1	0.5	13.1	16.1	0.12
D00006719	2.3	3.0	0.10	0.6	<0.3	19.2	0.7	0.02
D00006720	14.5	23.8	0.39	2.4	0.4	12.4	9.1	0.08
D00006721	5.7	11.0	0.16	0.5	0.3	5.7	0.6	0.03
D00006722	6.5	40.5	0.42	1.6	0.9	8.0	1.6	0.14
D00006723	14.5	41.5	0.10	4.2	0.7	20.4	11.8	0.12
D00006724	15.3	37.5	0.12	3.9	0.6	17.6	15.1	0.10
D00006725	17.0	28.4	0.17	1.4	0.5	21.5	1.4	0.03
D00006726	35.1	54.4	0.19	5.7	0.8	21.1	7.1	0.10
D00006727	32.2	45.4	0.13	4.6	0.7	18.5	7.8	0.13
D00006728	25.0	46.1	0.17	5.3	0.7	14.5	8.4	0.19
D00006729	28.0	51.2	0.32	3.6	0.6	14.5	16.5	0.12
D00006730	20.4	106	0.16	9.7	0.5	20.5	11.2	0.32
D00006731	25.3	35.4	0.18	4.8	0.5	12.0	11.1	0.18
D00006732	20.0	27.1	0.17	3.9	0.6	12.0	10.5	0.12
D00006733	17.3	7.1	0.17	2.3	0.6	10.8	1.0	0.09
D00006734	22.0	42.0	0.37	2.9	0.7	8.6	12.3	0.14
D00006735	10.8	32.2	0.37	3.4	0.5	10.9	13.8	0.14
D00006736	14.8	30.7	0.50	2.1	0.4	12.1	7.3	0.09
D00006737	15.3	13.4	0.57	2.4	0.4	15.4	5.7	0.05
D00006738	14.3	41.0	0.38	4.5	0.4	16.1	3.3	0.15
D00006739	48.2	14.5	0.36	1.6	<0.3	9.2	6.4	0.03
D00006740	48.8	14.6	0.35	1.7	<0.3	9.6	7.2	0.03
D00006741	21.0	12.0	0.52	0.8	0.3	7.6	1.1	0.01
D00006742	86.3	25.5	0.54	4.8	<0.3	11.3	3.7	0.04
D00006743	59.5	14.5	0.73	1.0	<0.3	8.8	3.7	0.03
D00006744	23.4	16.1	0.58	1.6	<0.3	14.1	2.6	0.03

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Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006745	9.9	15.8	0.29	1.0	<0.3	6.6	3.4	0.02
D00006746	31.4	20.2	0.32	1.5	<0.3	13.1	4.5	0.03
D00006747	16.8	15.0	0.23	3.0	0.3	8.8	6.7	0.07
D00006748	14.4	13.6	0.26	2.2	<0.3	7.8	4.0	0.04
D00006749	19.5	9.4	0.17	1.1	0.4	27.3	1.2	0.05
D00006750	14.9	25.3	0.15	4.0	<0.3	19.9	12.3	0.11
D00006751	16.2	13.8	0.14	0.4	0.3	16.8	0.4	<0.01
D00006752	18.8	23.8	0.18	4.0	0.4	9.2	6.3	0.10
D00006753	24.5	13.2	0.18	3.6	0.4	8.8	6.6	0.08
D00006754	20.7	25.7	0.13	3.6	0.4	9.7	7.4	0.13
D00006755	20.8	24.9	0.08	3.3	0.4	9.0	6.4	0.13
D00006756	36.7	27.7	0.29	4.5	0.4	10.7	11.7	0.11
D00006757	10.8	14.9	0.13	1.1	<0.3	15.8	1.5	0.03
D00006758	10.9	19.3	0.14	0.7	0.4	6.6	0.6	0.04
D00006759	31.4	23.9	0.10	1.5	<0.3	18.5	1.7	0.03
D00006760	0.6	<0.2	<0.05	<0.1	<0.3	0.6	0.2	<0.01
D00006761	31.3	32.8	0.07	1.4	<0.3	15.2	4.4	0.04
D00006762	33.1	22.5	0.09	1.6	<0.3	16.5	18.2	0.03
D00006763	11.5	43.7	0.26	1.5	0.7	5.8	3.8	0.15
D00006764	11.8	35.3	0.38	2.5	0.4	10.8	8.5	0.13
D00006765	13.9	44.3	0.19	2.7	0.5	9.9	7.2	0.16
D00006766	13.2	45.8	0.27	3.1	0.4	15.3	10.4	0.10
D00006767	8.5	34.9	0.20	2.5	0.4	13.3	12.9	0.09
D00006768	8.6	22.4	0.25	1.2	<0.3	7.3	2.8	0.04
D00006769	10.9	23.6	0.35	1.0	0.4	7.7	1.3	0.05
D00006770	11.5	13.3	0.25	1.1	0.4	10.3	0.9	0.04
D00006771	12.9	12.3	0.26	1.1	0.6	5.8	7.0	0.06
D00006772	263	16.5	0.44	1.2	0.3	7.9	2.0	0.04
D00006773	8.3	15.0	0.12	0.4	0.4	6.2	0.2	0.02
D00006774	8.1	12.9	0.19	0.7	0.3	7.2	1.9	0.02
D00006775	14.3	14.9	0.14	2.9	<0.3	19.7	6.6	0.03
D00006776	22.9	7.4	0.37	4.5	0.3	15.3	10.8	0.05
D00006777	17.1	16.2	0.24	3.5	0.7	28.7	5.5	0.09
D00006778	10.0	26.2	0.20	1.5	<0.3	6.6	3.5	0.05
D00006779	18.4	20.5	0.45	1.9	0.5	10.1	3.9	0.06
D00006780	11.6	15.5	0.37	1.0	0.5	6.5	1.1	0.05

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006721	5.8	11.4	0.17	0.5	0.3	6.0	0.3	0.03
*Rep D00006750	13.3	25.1	0.12	4.0	<0.3	19.5	12.2	0.11
*Rep D00006766	13.8	48.9	0.28	3.2	0.4	16.0	10.7	0.11
*Std OREAS920	19.4	27.2	0.57	3.2	1.2	18.1	15.5	0.16
*Std OREAS151B	38.0	21.0	0.55	9.3	1.1	41.0	2.5	0.08
*Std OREAS902	9.9	10.5	0.91	2.9	<0.3	23.2	5.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006705	0.21	0.95	19	0.2	6.70	42
D00006706	0.19	0.90	14	0.1	6.62	40
D00006707	0.30	1.99	30	0.2	15.2	145
D00006708	0.19	2.45	22	0.6	28.8	68
D00006709	0.37	1.66	18	0.2	15.4	89
D00006710	0.21	1.44	15	0.1	12.0	54
D00006711	0.23	2.97	23	0.2	21.0	84
D00006712	0.33	7.62	35	0.3	19.8	203
D00006713	0.15	1.59	22	0.2	4.21	107
D00006714	0.14	5.38	16	0.1	45.8	299
D00006715	0.14	2.15	19	0.2	12.2	316
D00006716	0.13	3.36	14	0.2	15.4	189
D00006717	0.31	1.39	39	0.2	7.18	271
D00006718	0.30	2.97	37	0.2	16.5	197
D00006719	0.03	0.79	5	<0.1	5.87	31
D00006720	0.25	1.67	27	0.2	7.17	82
D00006721	0.10	1.10	15	0.2	2.69	25
D00006722	0.24	1.30	39	0.3	2.98	60
D00006723	0.35	1.43	43	0.2	11.1	175
D00006724	0.28	1.62	39	<0.1	14.6	137
D00006725	0.18	4.69	37	0.2	21.5	146
D00006726	0.47	7.42	63	0.2	28.5	336
D00006727	0.43	3.61	50	0.1	18.0	195
D00006728	0.35	1.69	66	0.3	11.6	258
D00006729	0.45	2.61	40	0.3	16.4	148
D00006730	0.74	4.50	116	0.2	20.4	137
D00006731	0.30	1.41	67	0.2	12.4	163
D00006732	0.28	1.04	55	0.2	11.4	166
D00006733	0.16	1.15	58	0.2	6.97	116
D00006734	0.38	1.01	29	0.3	13.5	93
D00006735	0.26	1.51	40	0.2	13.4	95
D00006736	0.35	1.26	25	0.3	13.5	73
D00006737	0.18	1.67	32	0.4	9.27	71
D00006738	0.32	0.92	63	0.2	8.37	71
D00006739	0.18	1.04	15	0.1	8.36	560
D00006740	0.18	1.03	14	<0.1	8.90	610
D00006741	0.27	1.27	13	0.4	3.28	73
D00006742	0.37	1.30	20	0.1	21.4	768
D00006743	0.16	0.80	16	0.2	4.59	160
D00006744	0.16	1.53	21	0.2	7.92	175

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006745	0.13	0.67	15	0.2	4.01	46
D00006746	0.18	0.98	19	0.2	7.40	88
D00006747	0.10	0.57	40	0.2	4.16	77
D00006748	0.11	0.69	29	0.2	3.68	49
D00006749	0.15	0.76	34	0.2	3.43	71
D00006750	0.18	2.08	39	0.1	15.5	249
D00006751	0.30	4.66	22	0.4	9.80	64
D00006752	0.19	1.06	48	0.1	9.35	201
D00006753	0.14	0.92	42	0.1	6.97	182
D00006754	0.22	0.95	42	0.1	10.1	166
D00006755	0.24	0.94	46	0.1	9.05	130
D00006756	0.26	1.39	42	0.1	12.9	343
D00006757	0.12	1.16	14	0.1	3.84	34
D00006758	0.13	1.67	15	0.1	2.72	28
D00006759	0.21	1.97	10	0.1	6.97	57
D00006760	<0.02	0.07	<1	<0.1	0.67	1
D00006761	0.27	1.55	7	<0.1	7.76	76
D00006762	0.21	1.65	9	<0.1	15.7	62
D00006763	0.29	0.81	26	0.2	6.56	55
D00006764	0.28	0.82	32	0.4	9.85	70
D00006765	0.35	0.85	39	0.2	7.68	63
D00006766	0.36	1.79	27	0.2	17.6	53
D00006767	0.29	1.06	21	0.3	9.15	46
D00006768	0.19	0.66	16	0.1	5.54	33
D00006769	0.15	0.71	27	0.3	3.01	37
D00006770	0.11	0.72	30	0.4	5.33	35
D00006771	0.13	0.85	27	0.3	4.24	24
D00006772	0.13	0.97	27	0.5	5.92	38
D00006773	0.12	0.52	18	0.3	4.55	27
D00006774	0.08	0.59	17	0.2	3.94	25
D00006775	0.11	0.96	33	0.2	9.83	118
D00006776	0.08	1.07	38	0.2	21.1	90
D00006777	0.14	0.67	55	0.3	5.73	87
D00006778	0.19	0.80	22	0.3	6.36	41
D00006779	0.19	1.48	37	0.4	10.3	87
D00006780	0.14	0.98	32	0.5	6.07	51

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Final : VC172785 Order: PO# BMC17-01016

Report File No.: 0000025098

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006721	0.10	0.94	16	0.1	2.65	26
*Rep D00006750	0.20	2.00	38	0.1	15.2	245
*Rep D00006766	0.37	1.91	28	0.3	19.4	56
*Std OREAS920	0.18	2.26	23	0.6	20.3	113
*Std OREAS151B	0.13	0.58	141	0.7	11.0	256
*Std OREAS902	0.22	2.33	10	2.3	8.15	7
*Blk BLANK	<0.02	<0.05	<1	0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172786
[Report File No.: 0000024920]

Date: September 26, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01016
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006781	0.465	<5	0.13	1.34	6	127	0.21	0.15
D00006782	0.230	<5	0.82	0.83	8	205	0.59	0.24
D00006783	0.210	<5	0.33	1.18	5	163	0.14	0.15
D00006784	0.435	<5	0.02	0.35	2	44	0.11	0.02
D00006785	0.325	<5	0.20	0.85	3	71	0.24	0.07
D00006786	0.320	<5	0.31	1.43	6	200	0.20	0.32
D00006787	0.225	<5	0.10	2.49	11	255	0.08	0.36
D00006788	0.190	<5	0.35	1.35	5	181	0.28	0.19
D00006789	0.315	<5	0.13	1.07	3	83	0.21	0.09
D00006790	0.210	<5	0.15	0.60	3	81	0.19	0.04
D00006791	0.160	<5	0.70	0.38	2	103	0.07	0.09
D00006792	0.170	<5	0.21	0.59	5	63	0.19	0.10
D00006793	0.135	<5	0.12	0.74	4	148	0.17	0.31
D00006794	0.310	<5	0.12	1.06	6	72	0.22	0.24
D00006795	0.335	8	0.05	0.97	4	152	0.22	0.11
D00006796	0.225	<5	0.10	0.58	<1	35	0.03	0.17
D00006797	0.265	6	0.07	1.48	10	227	0.28	0.41
D00006798	0.335	<5	0.09	1.74	10	171	0.26	0.34
D00006799	0.365	<5	0.56	2.38	18	221	0.44	0.44
D00006800	0.110	<5	<0.01	<0.01	2	<5	<0.02	<0.01
D00006801	0.435	<5	0.04	1.24	6	215	0.33	0.35
D00006802	0.275	<5	0.06	1.07	6	171	0.21	0.52
D00006803	0.210	<5	0.30	1.37	8	226	0.33	1.00
D00006804	0.140	<5	0.10	1.71	8	254	0.28	0.51
D00006805	0.255	<5	0.29	1.36	9	154	0.50	0.48
D00006806	0.220	<5	0.16	0.96	7	102	0.19	0.40
D00006807	0.215	<5	0.07	0.80	15	109	0.25	0.46
D00006808	0.335	<5	0.15	2.69	45	187	0.21	0.74
D00006809	0.205	<5	0.10	1.03	16	171	0.27	0.53
D00006810	0.135	8	0.16	1.37	15	215	0.30	1.01
D00006811	0.280	<5	0.25	1.36	8	231	0.38	0.33
D00006812	0.385	<5	0.06	1.27	10	135	0.23	0.43
D00006813	0.115	6	1.16	1.88	27	172	0.33	1.25
D00006814	0.400	<5	0.27	1.08	6	92	0.16	0.29
D00006815	0.290	<5	0.39	1.05	14	45	0.25	0.10
D00006816	0.365	<5	0.20	1.06	10	61	0.23	0.11
D00006817	0.280	9	0.50	0.88	21	81	0.23	0.06
D00006818	0.345	<5	0.37	1.82	14	100	0.31	0.15
D00006819	0.315	6	0.28	0.85	11	64	0.16	0.15
D00006820	0.380	<5	0.18	0.88	11	89	0.18	0.13

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006821	0.265	<5	0.27	0.96	15	149	0.18	0.09
D00006822	0.395	<5	0.12	0.66	10	102	0.12	0.28
D00006823	0.380	<5	0.08	0.86	13	158	0.25	0.28
D00006824	0.340	<5	0.08	0.74	9	75	0.18	0.17
D00006825	0.300	<5	0.04	1.14	11	76	0.19	0.16
D00006826	0.255	<5	0.12	0.95	11	68	0.19	0.22
D00006827	0.280	<5	0.09	0.73	12	126	0.41	0.16
D00006828	0.200	<5	0.47	0.63	10	147	0.26	0.64
D00006829	0.260	<5	0.15	0.68	8	121	0.14	0.49
D00006830	0.220	<5	0.24	0.77	10	155	0.23	0.12
D00006831	0.340	<5	0.32	1.51	33	54	0.25	0.06
D00006832	0.320	<5	0.08	0.65	9	92	0.14	0.26
D00006833	0.295	<5	0.05	0.61	8	62	0.25	0.03
D00006834	0.270	<5	0.10	1.05	9	108	0.27	0.22
D00006835	0.260	<5	0.13	1.23	19	96	0.19	0.19
D00006836	0.310	<5	0.18	1.16	10	90	0.23	0.35
D00006837	0.295	<5	0.20	1.35	9	124	0.24	0.40
D00006838	0.395	<5	0.33	0.80	13	84	0.30	0.48
D00006839	0.310	<5	0.34	1.45	13	122	0.24	0.94
D00006840	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00006841	0.440	<5	0.20	2.19	31	92	0.16	0.66
D00006842	0.180	<5	0.53	1.00	7	161	0.25	0.77
D00006843	0.285	<5	0.49	1.36	16	79	0.38	0.68
D00006844	0.425	<5	0.07	1.23	6	74	0.27	0.09
D00006845	0.305	<5	0.14	1.78	17	87	0.46	0.27
D00006876	0.415	<5	0.61	1.96	22	193	1.66	0.59
D00006877	0.515	<5	0.21	2.37	15	319	0.36	0.82
D00006878	0.465	<5	0.15	1.74	14	173	1.10	0.51
D00006879	0.350	<5	0.11	3.16	4	363	0.65	0.64
D00006880	0.290	<5	0.14	3.02	5	399	0.63	0.73
D00006881	0.370	<5	0.11	2.32	24	373	0.41	0.78
D00006882	0.335	<5	0.49	2.77	8	159	2.20	0.50
D00006883	0.375	<5	0.27	2.02	10	132	2.35	0.34
D00006884	0.410	<5	0.45	1.39	9	97	2.29	0.15
D00006885	0.280	<5	0.32	0.92	87	139	1.09	0.34
D00006886	0.285	<5	0.11	2.04	3	261	0.24	0.96
*Rep D00006877		<5						
*Std OREAS151B		65						
*Std OXK119		3530						
*Std AMIS0282		184						

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Final : VC172786 Order: PO# BMC17-01016

Report File No.: 0000024920

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Blk BLANK	<5						
*Rep D00006804		0.11	1.76	10	262	0.29	0.51
*Rep D00006830		0.24	0.77	10	154	0.23	0.13
*Rep D00006843		0.49	1.40	16	78	0.39	0.70
*Std OREAS920		0.09	2.42	4	74	0.59	0.32
*Std OREAS151B		0.56	2.49	33	71	0.39	1.37
*Std OREAS902		0.31	0.51	603	15	8.74	4.16
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00006781	<5						
*Rep D00006814	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006781	0.19	116	9.1	15	13.7	3.75	5.3	<0.01
D00006782	0.42	74.5	30.5	16	18.1	3.74	6.0	0.01
D00006783	0.24	106	7.1	12	11.5	2.77	5.3	0.04
D00006784	0.10	25.2	1.0	2	3.5	0.60	3.2	<0.01
D00006785	0.48	59.8	4.8	15	8.5	1.96	5.7	0.03
D00006786	0.28	122	8.9	19	13.6	3.03	6.2	0.01
D00006787	0.39	29.6	21.3	62	23.4	5.33	9.5	<0.01
D00006788	0.09	147	6.1	15	9.5	2.56	6.5	<0.01
D00006789	0.13	59.9	5.3	12	8.3	1.82	5.0	<0.01
D00006790	0.23	41.7	3.0	7	6.0	1.40	4.2	<0.01
D00006791	1.71	67.5	2.1	6	18.6	0.81	2.2	0.04
D00006792	0.56	26.2	2.2	8	5.7	1.04	3.7	0.01
D00006793	0.83	84.5	5.5	8	12.8	1.37	3.5	0.01
D00006794	0.13	103	4.2	9	14.5	1.89	3.8	<0.01
D00006795	0.16	41.7	2.4	9	5.0	1.29	4.1	<0.01
D00006796	0.04	25.2	0.7	<1	6.9	0.28	1.8	<0.01
D00006797	0.31	31.4	8.4	29	20.0	3.03	5.8	<0.01
D00006798	0.17	39.7	12.5	32	28.4	3.51	6.3	<0.01
D00006799	0.48	46.8	18.2	47	53.3	4.81	7.4	<0.01
D00006800	<0.01	1.05	<0.1	<1	0.6	0.02	<0.1	<0.01
D00006801	0.18	38.3	6.5	21	13.2	2.60	6.1	<0.01
D00006802	0.33	42.4	8.8	18	9.8	2.19	4.8	<0.01
D00006803	2.28	144	14.4	22	30.2	2.81	5.4	0.04
D00006804	0.16	47.7	11.8	27	15.6	3.89	6.3	<0.01
D00006805	0.41	88.2	11.0	15	16.0	3.50	5.2	<0.01
D00006806	0.62	103	6.3	11	7.6	2.33	4.8	0.04
D00006807	0.24	39.6	10.9	11	12.8	2.89	2.7	<0.01
D00006808	0.58	74.5	21.8	36	18.4	6.18	9.7	<0.01
D00006809	0.39	46.0	10.7	14	12.3	2.90	3.2	<0.01
D00006810	0.36	91.2	10.8	19	15.6	3.18	5.3	0.03
D00006811	0.37	64.8	8.1	16	14.7	2.97	5.0	<0.01
D00006812	0.14	47.3	7.5	14	9.5	3.15	5.0	<0.01
D00006813	1.75	130	17.3	28	71.9	3.18	6.2	0.07
D00006814	0.06	24.4	4.0	16	6.0	2.20	4.6	<0.01
D00006815	0.20	28.1	5.0	18	8.2	3.13	6.1	0.02
D00006816	0.23	33.0	5.8	17	8.2	2.57	5.3	0.03
D00006817	0.30	30.3	5.9	16	12.2	2.90	4.9	0.04
D00006818	0.26	73.8	20.6	27	28.0	3.55	5.2	0.03
D00006819	0.11	39.2	7.6	18	14.1	2.40	3.8	0.01
D00006820	0.09	49.9	9.7	14	12.3	2.37	3.6	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006821	0.05	68.8	8.1	18	10.6	2.03	3.4	0.04
D00006822	0.05	64.0	5.7	11	8.0	1.81	2.5	0.02
D00006823	0.49	135	10.0	12	11.3	2.17	3.2	0.01
D00006824	0.09	66.3	7.0	13	7.1	2.16	3.3	0.04
D00006825	0.30	69.2	8.6	21	8.4	2.75	4.8	0.05
D00006826	0.14	61.1	8.2	21	12.1	2.20	3.4	0.04
D00006827	0.09	54.7	6.3	14	8.6	1.95	3.3	0.01
D00006828	0.44	65.7	10.9	10	15.4	2.49	2.6	0.07
D00006829	0.16	74.1	9.6	8	9.6	2.02	2.5	<0.01
D00006830	0.16	130	7.7	10	9.6	2.03	3.6	0.06
D00006831	0.22	59.6	14.7	34	22.2	4.52	6.4	0.08
D00006832	0.07	50.6	6.9	10	6.0	2.33	2.9	<0.01
D00006833	0.08	34.9	3.5	10	7.2	1.66	4.3	0.01
D00006834	0.10	35.6	8.2	18	9.1	2.98	4.9	0.02
D00006835	0.16	71.5	23.8	37	34.1	3.35	4.6	0.01
D00006836	0.31	49.3	11.0	19	17.6	2.68	4.2	<0.01
D00006837	0.26	54.5	8.8	19	21.0	2.51	4.6	0.03
D00006838	1.92	94.6	15.2	19	29.1	4.07	3.6	0.03
D00006839	0.61	82.1	13.4	28	24.5	3.36	5.3	0.02
D00006840	<0.01	1.13	<0.1	<1	0.6	0.02	<0.1	<0.01
D00006841	0.44	94.7	30.7	47	29.1	4.96	7.7	0.02
D00006842	0.53	67.0	13.3	13	28.3	2.98	3.9	0.04
D00006843	0.47	95.9	26.4	35	47.9	4.68	4.9	0.04
D00006844	0.09	29.4	5.9	31	11.9	2.24	7.6	<0.01
D00006845	0.29	54.0	8.3	26	12.3	3.13	10.6	0.03
D00006876	2.94	77.4	20.4	43	118	4.66	7.0	<0.01
D00006877	1.07	36.5	30.8	60	85.1	4.85	7.0	<0.01
D00006878	0.46	63.7	14.4	29	50.3	3.84	6.4	0.02
D00006879	0.55	85.1	25.4	44	43.3	6.62	11.6	0.01
D00006880	0.77	108	25.3	43	52.5	6.66	11.8	0.04
D00006881	0.84	267	19.6	30	28.1	6.00	11.4	0.03
D00006882	3.73	111	21.1	95	122	5.67	8.9	0.02
D00006883	2.40	81.3	18.2	60	77.5	4.17	6.9	0.02
D00006884	0.74	107	9.5	41	93.8	3.95	4.8	0.02
D00006885	1.37	197	9.1	16	23.8	2.15	4.5	0.05
D00006886	0.29	161	20.2	30	28.3	5.97	8.0	0.04

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006804	0.17	49.1	12.3	26	16.1	3.92	6.5	<0.01
*Rep D00006830	0.16	131	7.6	11	9.1	2.08	3.5	0.06
*Rep D00006843	0.50	97.9	26.4	37	48.7	4.86	5.0	0.05
*Std OREAS920	0.07	65.8	14.6	44	97.9	3.73	6.9	<0.01
*Std OREAS151B	0.60	15.5	10.9	25	1730	3.47	7.3	0.01
*Std OREAS902	0.03	31.1	990	21	2920	3.20	1.6	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006781	0.48	46.1	0.49	460	1.95	0.01	17.0	840
D00006782	0.13	28.9	0.12	4930	3.45	0.01	18.4	1170
D00006783	0.40	57.0	0.37	318	1.42	0.01	13.1	1000
D00006784	0.13	12.1	0.05	47	0.61	0.02	2.1	240
D00006785	0.40	28.0	0.38	167	1.22	0.01	9.7	360
D00006786	0.40	55.4	0.56	580	1.52	0.01	17.5	790
D00006787	0.83	14.9	1.49	727	1.00	0.01	25.6	1390
D00006788	0.33	115	0.46	271	1.33	0.02	9.7	530
D00006789	0.30	36.8	0.39	167	1.04	0.01	6.6	620
D00006790	0.23	23.6	0.19	206	1.43	0.01	5.5	470
D00006791	0.10	40.9	0.11	77	0.59	0.02	6.4	510
D00006792	0.09	16.3	0.15	155	0.74	0.02	5.5	560
D00006793	0.14	53.6	0.25	476	0.90	0.02	7.8	880
D00006794	0.15	58.4	0.37	141	1.00	0.02	7.0	770
D00006795	0.06	25.1	0.21	187	1.01	0.01	4.3	820
D00006796	0.02	13.6	0.05	39	0.16	0.03	1.6	470
D00006797	0.11	17.9	0.82	533	1.71	0.01	16.6	1370
D00006798	0.21	29.4	0.98	500	1.38	0.01	22.2	940
D00006799	0.24	27.0	1.38	705	2.64	0.01	38.4	1200
D00006800	<0.01	0.5	<0.01	<2	0.05	<0.01	<0.5	<50
D00006801	0.20	19.0	0.56	403	1.74	<0.01	9.3	780
D00006802	0.11	20.9	0.48	853	1.30	0.01	10.1	990
D00006803	0.31	58.2	0.64	1370	1.09	0.01	21.9	1250
D00006804	0.25	28.5	0.75	807	1.80	0.02	13.2	1080
D00006805	0.39	53.0	0.54	536	2.22	0.01	11.8	730
D00006806	0.29	46.4	0.34	293	1.22	0.02	7.8	580
D00006807	0.38	22.1	0.28	937	2.47	0.01	10.4	720
D00006808	1.24	40.2	1.63	1010	1.43	0.01	23.6	1280
D00006809	0.30	27.8	0.29	779	2.33	0.02	11.9	880
D00006810	0.39	60.6	0.59	1050	1.58	0.02	14.0	970
D00006811	0.17	40.2	0.50	550	1.57	0.02	10.2	1160
D00006812	0.48	22.3	0.57	288	2.22	0.01	9.3	570
D00006813	0.12	179	0.51	1150	1.82	0.03	42.9	1210
D00006814	0.06	14.0	0.48	113	0.88	0.01	10.1	500
D00006815	0.07	14.2	0.39	192	1.40	0.01	11.2	580
D00006816	0.14	17.0	0.43	269	1.66	0.01	12.4	630
D00006817	0.11	16.0	0.35	168	2.79	0.01	14.2	490
D00006818	0.11	33.8	0.69	500	2.04	0.02	47.6	780
D00006819	0.09	15.8	0.46	220	1.77	0.01	17.4	540
D00006820	0.09	26.2	0.43	388	1.54	0.01	15.2	560

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006821	0.18	39.8	0.28	294	1.34	0.02	11.4	600
D00006822	0.23	32.3	0.23	165	0.98	0.01	9.5	1210
D00006823	0.20	53.2	0.27	432	1.68	0.01	18.3	1300
D00006824	0.27	30.6	0.26	391	1.56	0.01	10.2	900
D00006825	0.29	30.9	0.41	373	1.50	0.01	12.9	800
D00006826	0.11	26.1	0.37	274	1.34	0.01	19.0	800
D00006827	0.19	24.1	0.21	220	1.37	0.01	10.2	450
D00006828	0.17	44.6	0.21	450	1.50	0.02	20.8	920
D00006829	0.18	36.3	0.24	385	1.05	0.01	11.6	1060
D00006830	0.17	58.5	0.14	409	1.80	0.02	12.1	1040
D00006831	0.10	27.3	0.51	560	1.63	0.01	29.7	830
D00006832	0.15	24.4	0.21	260	1.25	0.01	8.1	640
D00006833	0.09	16.3	0.13	127	1.32	0.01	7.9	300
D00006834	0.10	17.2	0.56	299	1.43	0.01	12.7	770
D00006835	0.06	28.3	0.66	424	1.26	0.01	45.9	600
D00006836	0.08	28.6	0.58	417	1.04	0.02	24.8	700
D00006837	0.10	41.3	0.52	357	0.87	0.02	21.7	1100
D00006838	0.10	65.2	0.40	1270	1.12	0.01	31.3	1140
D00006839	0.15	56.3	0.73	686	0.87	0.02	27.0	1110
D00006840	<0.01	0.6	<0.01	<2	0.05	0.01	<0.5	<50
D00006841	0.26	52.8	1.27	1110	0.86	0.02	47.8	1570
D00006842	0.14	45.1	0.37	786	2.18	0.01	23.2	1260
D00006843	0.07	62.2	0.74	1360	0.95	0.02	61.5	1340
D00006844	0.20	15.8	0.54	180	1.34	0.02	13.8	390
D00006845	0.18	28.9	0.41	585	1.61	0.02	15.6	1210
D00006876	0.45	52.4	1.20	844	2.43	0.02	33.6	1130
D00006877	0.55	21.9	1.71	957	1.29	0.01	57.1	1380
D00006878	0.56	36.0	0.90	520	3.45	0.02	16.6	1050
D00006879	1.40	41.7	1.89	1400	2.98	0.02	19.7	1650
D00006880	1.51	56.4	1.88	1590	3.11	0.02	20.7	1400
D00006881	1.14	158	1.22	1650	2.43	0.02	17.0	1660
D00006882	1.29	58.5	2.13	1430	4.68	0.02	34.6	690
D00006883	0.95	35.8	1.49	1160	2.98	0.01	28.7	640
D00006884	0.53	58.3	0.97	519	3.32	0.02	18.0	560
D00006885	0.20	122	0.31	796	2.47	0.02	16.0	980
D00006886	0.56	81.1	1.20	1680	1.85	0.02	18.9	910

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006804	0.25	28.9	0.80	812	1.84	0.02	12.7	1100
*Rep D00006830	0.17	58.5	0.14	425	1.82	0.01	12.3	1060
*Rep D00006843	0.07	63.6	0.74	1440	0.98	0.02	64.3	1300
*Std OREAS920	0.41	35.6	1.13	566	0.40	0.03	39.4	750
*Std OREAS151B	0.39	7.4	1.38	295	56.9	0.17	15.0	540
*Std OREAS902	0.26	16.1	2.14	499	12.9	0.02	161	670
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006781	19.6	45.7	0.21	3.2	0.4	9.5	12.7	0.13
D00006782	48.4	21.3	0.35	0.7	0.7	11.9	0.8	0.03
D00006783	9.1	33.9	0.18	2.1	0.6	9.7	3.8	0.09
D00006784	2.5	10.9	0.06	0.4	0.4	2.8	0.8	0.03
D00006785	11.6	38.5	0.18	1.7	0.4	6.3	7.9	0.10
D00006786	16.4	38.6	0.19	2.8	0.4	13.5	8.1	0.10
D00006787	6.8	49.8	0.14	4.9	0.3	15.8	2.8	0.23
D00006788	17.7	34.8	0.14	2.7	0.4	11.3	6.0	0.09
D00006789	7.5	26.7	0.14	0.9	0.3	5.8	0.7	0.05
D00006790	15.5	24.2	0.17	0.9	0.4	5.0	0.9	0.06
D00006791	21.9	10.0	0.09	0.7	<0.3	8.3	0.4	0.02
D00006792	8.0	13.3	0.20	0.5	<0.3	7.8	0.1	0.03
D00006793	11.8	20.2	0.10	0.9	<0.3	15.7	0.9	0.04
D00006794	13.6	14.6	0.12	1.5	<0.3	10.3	2.5	0.06
D00006795	9.8	13.3	0.07	0.4	0.3	6.7	0.2	0.01
D00006796	1.4	1.0	<0.05	0.3	<0.3	10.1	0.2	0.02
D00006797	17.7	17.6	0.11	1.5	<0.3	22.2	1.1	0.05
D00006798	20.8	26.3	0.15	2.6	0.3	15.9	3.4	0.12
D00006799	62.0	27.4	0.26	4.3	0.4	22.8	6.6	0.12
D00006800	0.5	<0.2	<0.05	<0.1	<0.3	0.6	0.4	<0.01
D00006801	23.3	23.2	0.17	2.0	0.5	15.4	2.2	0.09
D00006802	21.2	21.6	0.12	1.4	0.3	25.3	1.0	0.04
D00006803	47.8	32.5	0.24	3.6	<0.3	38.5	6.5	0.09
D00006804	23.8	34.7	0.16	4.0	<0.3	22.6	2.8	0.10
D00006805	77.4	48.8	0.13	4.3	<0.3	21.8	10.0	0.10
D00006806	29.1	48.3	0.10	2.3	<0.3	19.3	3.9	0.12
D00006807	13.7	47.0	0.08	2.7	<0.3	11.9	5.0	0.07
D00006808	52.0	137	0.19	10.7	0.4	22.6	12.4	0.34
D00006809	18.9	44.4	0.10	2.3	<0.3	14.1	3.3	0.05
D00006810	33.9	59.6	0.10	3.5	<0.3	38.4	7.6	0.15
D00006811	40.8	26.9	0.15	2.3	0.3	16.8	1.8	0.06
D00006812	20.9	53.7	0.14	3.5	0.4	15.3	7.5	0.17
D00006813	28.1	13.0	0.47	4.1	<0.3	51.1	7.3	0.03
D00006814	11.9	9.8	0.14	1.9	<0.3	14.0	2.5	0.04
D00006815	25.6	11.6	0.18	1.9	0.3	6.0	4.4	0.06
D00006816	21.1	20.9	0.23	2.5	0.4	7.4	5.3	0.07
D00006817	23.7	15.4	0.49	2.3	0.3	7.7	3.7	0.10
D00006818	16.1	12.2	0.54	3.9	<0.3	9.9	6.9	0.06
D00006819	10.1	8.4	0.26	2.0	<0.3	12.1	3.8	0.02
D00006820	15.5	11.9	0.25	2.2	<0.3	10.6	4.2	0.03

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006821	27.9	21.7	0.23	1.9	<0.3	6.5	4.2	0.05
D00006822	7.4	20.0	0.21	1.8	<0.3	9.3	4.7	0.04
D00006823	22.1	21.4	0.32	2.0	<0.3	13.2	15.3	0.06
D00006824	10.6	33.0	0.30	1.4	<0.3	7.3	3.5	0.07
D00006825	15.1	35.6	0.38	2.4	0.4	7.8	5.6	0.12
D00006826	15.5	9.2	0.52	1.7	<0.3	11.0	3.2	0.05
D00006827	13.8	17.8	0.37	1.2	0.3	8.6	1.9	0.04
D00006828	29.8	16.9	0.31	2.1	<0.3	18.7	6.6	0.03
D00006829	22.1	19.8	0.19	2.1	<0.3	16.8	10.2	0.04
D00006830	27.6	19.8	0.21	1.3	<0.3	6.1	2.7	0.03
D00006831	20.0	12.1	0.35	1.4	0.3	6.5	0.9	0.03
D00006832	12.9	14.6	0.25	1.8	<0.3	11.4	3.8	0.04
D00006833	13.8	11.4	0.35	1.0	0.4	4.1	1.6	0.05
D00006834	20.6	12.6	0.29	2.6	<0.3	11.3	2.7	0.03
D00006835	18.5	6.5	0.33	2.7	<0.3	12.8	6.6	0.02
D00006836	22.9	9.1	0.34	2.9	<0.3	15.8	6.8	0.04
D00006837	20.6	12.0	0.22	2.1	<0.3	20.4	3.1	0.03
D00006838	43.6	10.8	0.19	4.2	<0.3	20.9	11.0	0.02
D00006839	28.3	18.6	0.23	3.9	<0.3	39.7	5.8	0.04
D00006840	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.3	<0.01
D00006841	22.5	33.7	0.22	7.3	<0.3	32.9	9.6	0.09
D00006842	45.1	15.2	0.25	2.0	<0.3	29.2	5.3	0.03
D00006843	35.3	7.7	0.15	2.9	<0.3	22.7	6.2	0.02
D00006844	9.2	30.3	0.22	3.0	1.8	6.8	3.2	0.14
D00006845	30.1	22.1	0.18	1.2	0.5	36.1	0.9	0.06
D00006876	120	44.4	0.18	5.0	0.4	26.4	11.5	0.13
D00006877	27.7	54.7	0.13	4.4	<0.3	23.6	5.8	0.16
D00006878	28.5	59.1	0.20	4.9	0.7	20.2	8.9	0.17
D00006879	44.4	112	0.10	8.0	0.9	23.4	11.6	0.41
D00006880	37.1	119	0.11	7.9	0.9	26.5	13.2	0.39
D00006881	51.5	80.5	0.12	7.9	0.4	34.0	14.5	0.21
D00006882	141	138	0.12	9.4	1.2	35.6	19.2	0.36
D00006883	171	89.9	0.16	6.3	1.0	41.9	14.5	0.29
D00006884	58.8	47.7	0.19	3.6	0.5	54.0	15.8	0.14
D00006885	78.2	23.8	0.33	1.8	0.3	25.1	13.0	0.05
D00006886	28.3	58.3	0.24	9.8	0.3	34.7	14.5	0.10

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006804	24.8	36.0	0.16	4.2	<0.3	23.0	2.8	0.10
*Rep D00006830	27.7	20.0	0.23	1.3	<0.3	6.1	2.3	0.02
*Rep D00006843	35.9	8.0	0.16	3.0	<0.3	22.8	6.4	0.02
*Std OREAS920	20.7	22.9	0.54	2.8	1.0	17.2	16.9	0.12
*Std OREAS151B	40.3	20.1	0.52	9.3	1.0	37.4	2.8	0.07
*Std OREAS902	10.2	9.4	0.85	2.8	<0.3	20.8	5.6	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006781	0.39	1.14	36	0.1	13.1	103
D00006782	0.23	2.29	46	0.4	6.43	62
D00006783	0.27	1.12	34	0.1	11.4	61
D00006784	0.09	0.48	8	0.2	3.58	20
D00006785	0.26	0.70	30	0.4	6.37	56
D00006786	0.29	1.42	43	0.2	15.1	108
D00006787	0.31	0.60	119	0.2	6.59	106
D00006788	0.25	2.25	38	0.2	24.1	67
D00006789	0.22	1.26	27	0.1	8.91	58
D00006790	0.16	0.65	22	0.1	4.48	51
D00006791	0.07	1.61	12	<0.1	16.4	90
D00006792	0.10	0.63	21	0.2	4.50	43
D00006793	0.12	2.04	18	<0.1	16.8	91
D00006794	0.15	1.71	26	<0.1	15.9	112
D00006795	0.15	1.01	19	<0.1	5.48	40
D00006796	0.03	1.04	5	<0.1	5.16	8
D00006797	0.14	1.16	42	0.1	5.48	150
D00006798	0.22	1.24	57	0.1	13.2	172
D00006799	0.32	1.85	71	0.1	9.11	287
D00006800	<0.02	0.07	<1	<0.1	0.64	1
D00006801	0.17	0.93	43	0.3	6.11	74
D00006802	0.15	1.05	34	0.1	6.79	53
D00006803	0.30	3.09	44	0.4	26.8	196
D00006804	0.32	2.97	65	0.1	14.5	102
D00006805	0.43	2.08	44	0.1	16.3	205
D00006806	0.42	1.49	34	<0.1	10.6	85
D00006807	0.37	2.13	24	<0.1	13.3	37
D00006808	0.90	1.46	111	<0.1	17.3	251
D00006809	0.36	2.49	27	<0.1	15.1	53
D00006810	0.56	3.60	38	<0.1	18.2	121
D00006811	0.31	2.09	40	0.1	12.8	141
D00006812	0.46	1.33	41	0.1	5.18	81
D00006813	0.13	4.80	31	0.2	80.7	437
D00006814	0.09	0.42	31	0.1	4.15	55
D00006815	0.10	0.45	55	0.2	4.09	59
D00006816	0.14	0.56	45	0.2	4.35	59
D00006817	0.11	1.26	58	0.3	4.02	64
D00006818	0.15	1.64	51	0.3	10.1	132
D00006819	0.08	0.71	34	0.3	4.58	79
D00006820	0.10	0.83	30	0.2	8.26	71

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006821	0.20	1.19	28	0.2	11.2	40
D00006822	0.21	0.97	22	0.2	10.4	30
D00006823	0.21	1.78	26	0.2	15.3	130
D00006824	0.24	1.03	29	0.1	7.00	56
D00006825	0.27	0.77	45	0.2	7.28	69
D00006826	0.12	0.89	35	0.4	6.96	54
D00006827	0.16	0.83	30	0.2	4.14	39
D00006828	0.25	1.59	22	0.1	12.0	115
D00006829	0.18	1.40	23	0.2	11.7	59
D00006830	0.16	1.78	26	0.1	10.4	49
D00006831	0.12	1.22	46	0.2	6.46	92
D00006832	0.19	0.72	29	0.2	5.64	40
D00006833	0.10	0.61	34	0.3	2.59	33
D00006834	0.10	0.64	51	0.2	5.89	64
D00006835	0.06	1.00	29	<0.1	10.0	110
D00006836	0.10	0.96	30	0.4	9.82	165
D00006837	0.11	1.19	27	0.1	14.0	137
D00006838	0.22	0.96	24	0.1	27.7	386
D00006839	0.21	1.42	30	0.3	21.9	161
D00006840	<0.02	0.08	<1	<0.1	0.70	2
D00006841	0.25	0.91	53	<0.1	20.0	161
D00006842	0.16	1.75	23	0.1	14.2	131
D00006843	0.07	1.22	25	<0.1	25.2	138
D00006844	0.14	0.91	46	0.3	4.54	62
D00006845	0.19	1.85	34	0.2	9.35	53
D00006876	0.33	2.85	56	<0.1	17.9	1210
D00006877	0.38	0.78	62	<0.1	10.1	289
D00006878	0.43	4.17	55	0.2	15.5	146
D00006879	0.62	2.17	128	<0.1	16.2	229
D00006880	0.68	3.04	126	<0.1	20.8	209
D00006881	0.54	3.46	118	<0.1	48.4	187
D00006882	1.04	5.74	79	0.1	17.8	879
D00006883	0.71	3.00	60	0.1	11.0	507
D00006884	0.45	3.44	34	0.1	9.08	317
D00006885	0.25	13.5	21	0.4	69.1	220
D00006886	0.50	2.49	82	0.1	40.1	102

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Final : VC172786 Order: PO# BMC17-01016

Report File No.: 0000024920

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006804	0.33	3.02	68	0.1	14.5	103
*Rep D00006830	0.16	1.82	27	0.3	10.4	49
*Rep D00006843	0.07	1.25	26	<0.1	25.3	140
*Std OREAS920	0.17	2.31	24	0.4	17.5	116
*Std OREAS151B	0.14	0.67	145	0.6	11.1	252
*Std OREAS902	0.24	2.51	9	2.2	7.91	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172787
[Report File No.: 0000025145]

Date: October 06, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01016
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
75	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006887	0.325	<5	0.08	0.36	2	115	0.08	0.43
D00006888	0.240	<5	0.24	2.55	5	277	0.74	0.68
D00006889	0.245	<5	0.08	1.91	17	155	0.46	0.64
D00006890	0.295	<5	0.20	0.98	26	107	0.43	0.48
D00006891	0.355	<5	0.09	3.09	12	312	0.08	0.41
D00006892	0.150	6	0.58	1.05	28	67	0.72	0.47
D00006893	0.365	8	0.03	1.62	20	146	0.07	0.19
D00006894	0.305	<5	0.18	1.09	5	143	0.75	0.10
D00006895	0.270	<5	0.06	2.07	18	153	0.19	0.40
D00006896	0.430	6	0.21	1.09	39	126	0.16	0.39
D00006897	0.340	6	0.50	1.36	18	166	0.72	0.74
D00006898	0.295	<5	0.19	3.24	7	464	0.22	0.84
D00006899	0.405	6	0.25	2.17	19	264	0.21	0.97
D00006900	0.255	<5	0.22	2.10	19	298	0.18	1.19
D00006946	0.540	<5	0.06	0.99	5	61	0.21	0.19
D00006947	0.270	<5	0.45	1.09	2	70	0.10	0.23
D00006948	0.225	<5	0.10	0.58	<1	25	0.03	0.14
D00006949	0.590	<5	0.13	1.33	15	88	0.19	0.37
D00006950	0.280	<5	0.07	0.69	2	54	0.11	0.58
D00006951	0.365	<5	0.04	0.79	6	65	0.20	0.33
D00006952	0.310	<5	0.19	1.49	30	146	0.26	0.53
D00006953	0.490	<5	0.17	1.27	9	100	0.28	0.25
D00006954	0.340	18	0.23	0.85	3	69	0.14	0.41
D00006955	0.205	7	0.47	1.31	9	174	0.16	1.76
D00006956	0.260	7	0.07	0.69	3	62	0.07	0.31
D00006957	0.480	<5	0.26	1.47	15	189	0.25	0.55
D00006958	0.290	I.S.	0.30	1.43	13	143	1.24	1.01
D00006959	0.445	<5	0.10	1.65	7	91	0.22	0.31
D00006960	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00006961	0.335	<5	0.30	0.52	2	181	0.05	0.49
D00006962	0.435	<5	0.15	1.79	14	123	0.18	0.41
D00006963	0.330	<5	0.08	1.68	18	159	1.47	0.20
D00006964	0.170	<5	0.22	1.85	16	249	1.64	0.46
D00006965	0.405	<5	0.07	1.75	6	139	1.60	0.08
D00006966	0.375	6	0.08	0.87	14	62	0.81	0.10
D00006967	0.345	<5	0.16	1.41	7	93	3.45	0.10
D00006968	0.320	7	0.22	1.26	6	58	3.88	0.09
D00006969	0.545	<5	0.06	1.47	4	113	0.58	0.45
D00006970	0.365	<5	0.09	3.49	7	174	0.23	0.67
D00006971	0.230	<5	0.13	3.48	20	136	0.35	0.83

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006972	0.410	<5	0.07	1.26	8	50	0.45	0.35
D00006973	0.370	<5	0.08	2.73	4	104	0.40	0.82
D00006974	0.450	<5	0.05	2.98	5	124	0.41	0.92
D00006975	0.310	<5	0.08	0.92	10	45	0.50	0.29
D00006976	0.370	<5	0.04	0.99	8	36	0.57	0.11
D00006977	0.405	<5	0.37	2.71	12	306	0.38	0.71
D00006978	0.375	<5	0.13	3.23	32	102	0.34	0.88
D00006979	0.370	<5	0.06	1.21	11	60	0.55	0.20
D00006980	0.430	<5	0.07	1.13	10	62	0.57	0.17
D00006981	0.285	<5	0.07	1.96	2	79	0.22	0.29
D00006982	0.100	<5	0.17	1.49	10	116	0.37	0.43
D00006983	0.185	<5	0.09	0.95	3	50	0.15	0.21
D00006984	0.375	<5	0.10	2.23	9	159	0.23	0.43
D00006985	0.410	<5	0.07	1.76	13	177	0.26	0.37
D00006986	0.235	<5	0.22	2.29	12	169	0.53	0.47
D00006987	0.325	<5	0.15	1.10	11	74	0.35	0.16
D00006988	0.235	<5	0.14	1.37	11	80	0.29	0.21
D00006989	0.245	<5	0.17	1.60	14	107	0.34	0.30
D00006990	0.500	<5	0.11	2.80	11	355	0.23	0.67
D00006991	0.295	<5	0.35	2.31	21	234	0.35	0.71
D00006992	0.230	<5	0.31	1.69	19	183	0.26	0.49
D00006993	0.310	<5	0.10	0.72	3	61	0.20	0.07
D00006994	0.280	<5	0.43	0.78	1	120	0.12	0.29
D00006995	0.130	<5	0.26	0.29	<1	65	0.05	0.09
D00006996	0.535	<5	0.18	1.81	11	228	0.21	0.73
D00006997	0.675	<5	0.05	1.58	16	77	0.24	0.23
D00006998	0.550	<5	0.09	1.23	7	128	0.31	0.20
D00006999	0.565	<5	0.09	1.12	6	87	0.16	0.23
D00007251	0.475	<5	0.02	0.99	4	73	0.19	0.18
D00007252	0.125	<5	0.64	1.42	8	272	0.36	0.72
D00007253	0.555	<5	0.04	1.13	6	70	0.22	0.14
D00007254	0.500	<5	0.08	1.20	5	115	0.34	0.22
D00007255	0.400	<5	0.12	1.76	2	181	0.07	0.31
D00007256	0.580	<5	0.11	1.16	5	119	0.11	0.32
D00007257	0.460	<5	0.05	1.05	4	130	0.23	0.13
D00007258	0.250	8	0.09	0.59	2	71	0.47	0.04
*Std OREAS151B		69						
*Std OXK119		3680						
*Std OREAS151B		65						
*Blk BLANK		<5						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00006893		0.03	1.66	20	146	0.07	0.19
*Rep D00006959		0.10	1.64	7	91	0.22	0.33
*Rep D00006986		0.21	2.25	13	165	0.50	0.47
*Std OREAS920		0.08	2.29	5	73	0.60	0.32
*Std OREAS151B		0.53	2.36	32	68	0.38	1.36
*Std OREAS902		0.28	0.46	588	14	8.27	4.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00006949	8						
*Rep D00006969	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006887	2.52	189	12.4	4	24.7	2.97	2.8	0.01
D00006888	0.87	120	22.9	45	55.6	5.64	9.6	0.04
D00006889	0.61	112	19.0	30	38.8	5.42	7.6	0.02
D00006890	0.36	133	11.3	14	18.4	3.26	4.6	0.03
D00006891	0.15	25.0	26.7	42	45.5	6.89	10.5	0.02
D00006892	11.4	59.2	32.4	28	91.0	3.64	3.9	0.11
D00006893	0.12	13.4	15.4	37	25.6	3.25	5.3	<0.01
D00006894	0.44	28.8	6.5	14	31.9	3.27	5.4	0.04
D00006895	0.56	40.7	17.8	39	29.4	3.82	6.9	0.01
D00006896	0.57	102	25.7	38	42.8	5.34	4.3	0.03
D00006897	1.39	112	17.1	26	92.0	3.92	5.8	0.05
D00006898	0.64	30.8	26.2	45	24.4	7.26	10.3	0.04
D00006899	1.23	57.2	22.3	40	61.2	4.82	8.1	0.02
D00006900	1.18	48.8	20.9	49	57.0	4.56	7.8	0.02
D00006946	0.13	58.3	7.1	14	11.6	2.47	3.9	<0.01
D00006947	0.05	26.0	1.6	7	7.6	0.94	3.9	0.03
D00006948	0.05	9.61	0.7	2	6.3	0.31	2.0	<0.01
D00006949	0.48	45.6	12.5	39	32.4	3.12	4.5	0.01
D00006950	0.21	15.8	3.1	7	11.4	0.99	2.9	<0.01
D00006951	0.10	30.4	5.7	18	11.3	2.04	4.5	<0.01
D00006952	0.67	94.2	14.6	16	14.7	3.90	5.7	0.03
D00006953	0.32	102	10.2	20	14.7	3.62	5.1	0.02
D00006954	0.13	20.5	6.3	12	9.0	1.90	4.1	<0.01
D00006955	0.77	62.6	13.8	26	47.3	2.34	4.2	0.03
D00006956	0.19	21.3	5.3	9	14.1	0.99	2.5	<0.01
D00006957	0.63	64.9	14.6	29	32.1	3.38	5.0	0.02
D00006958	0.83	55.7	13.4	31	35.7	3.45	5.1	0.05
D00006959	0.15	40.4	9.5	34	31.0	2.86	5.7	<0.01
D00006960	<0.01	0.92	<0.1	<1	<0.5	0.02	<0.1	<0.01
D00006961	0.13	19.2	5.9	6	33.3	0.56	2.5	0.04
D00006962	0.12	26.9	13.7	35	23.1	3.74	6.2	0.01
D00006963	0.25	66.0	17.9	39	70.8	4.82	6.2	0.04
D00006964	0.59	120	21.5	29	80.4	5.03	7.1	0.05
D00006965	0.20	68.0	8.3	18	86.4	4.44	6.9	0.02
D00006966	0.46	54.8	6.9	19	35.4	2.25	3.7	0.03
D00006967	1.04	60.4	11.1	17	166	3.60	5.2	0.02
D00006968	1.09	59.0	7.9	20	96.5	3.22	5.4	0.02
D00006969	0.29	103	9.9	13	24.0	3.27	6.5	0.02
D00006970	0.26	57.5	31.3	126	42.0	6.58	10.5	<0.01
D00006971	0.35	40.5	30.9	138	38.1	6.00	9.9	0.02

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006972	0.15	42.8	9.2	21	12.1	2.53	4.6	<0.01
D00006973	0.53	59.6	19.6	36	26.3	5.27	11.1	<0.01
D00006974	0.32	83.7	17.6	23	25.6	5.75	12.3	0.01
D00006975	0.73	90.0	10.1	14	13.6	2.63	3.5	<0.01
D00006976	0.31	73.5	5.6	13	13.2	2.30	4.2	0.02
D00006977	1.06	71.8	29.2	87	97.6	6.64	9.9	0.02
D00006978	0.11	41.1	21.4	39	18.0	6.31	12.0	0.01
D00006979	0.34	104	8.5	11	12.9	2.58	5.2	0.02
D00006980	0.37	107	8.6	11	13.5	2.52	4.9	0.02
D00006981	0.11	52.4	11.1	15	15.0	3.64	8.9	0.02
D00006982	0.10	57.3	9.5	12	17.3	3.13	6.4	0.03
D00006983	0.07	27.6	3.9	8	9.5	1.58	4.4	<0.01
D00006984	0.17	27.9	13.0	22	12.2	4.94	8.2	0.01
D00006985	0.12	24.2	10.8	42	20.3	3.95	6.8	0.02
D00006986	0.12	42.6	10.4	31	12.4	4.40	10.8	0.01
D00006987	0.22	40.9	6.5	18	21.1	2.18	4.9	0.02
D00006988	0.19	41.3	9.0	29	19.5	2.70	5.9	<0.01
D00006989	0.45	46.1	6.4	25	21.3	2.30	5.9	<0.01
D00006990	0.27	71.0	17.0	43	30.5	5.04	11.5	<0.01
D00006991	1.06	54.1	22.2	59	61.2	5.41	8.2	0.04
D00006992	1.19	50.0	12.0	33	23.8	3.13	6.0	0.03
D00006993	0.14	15.0	2.0	11	5.5	0.89	4.3	<0.01
D00006994	0.12	42.3	2.6	8	7.5	0.98	3.1	0.06
D00006995	2.01	14.9	3.7	4	3.9	0.67	1.7	0.02
D00006996	2.88	34.3	11.8	46	53.0	3.60	6.2	0.01
D00006997	0.09	35.3	8.3	30	12.7	3.51	5.9	0.01
D00006998	0.16	48.7	15.8	22	11.7	2.79	6.0	0.02
D00006999	0.11	37.1	7.0	20	12.4	2.24	4.4	<0.01
D00007251	0.05	59.8	4.1	20	6.7	1.57	3.7	0.02
D00007252	0.33	286	6.1	18	16.9	2.85	6.5	0.08
D00007253	0.13	94.7	6.1	14	9.7	2.54	4.4	<0.01
D00007254	0.11	78.7	6.0	12	8.4	2.92	5.5	0.02
D00007255	0.12	48.5	15.5	56	17.3	3.85	6.6	0.04
D00007256	0.08	80.3	9.5	15	10.1	2.58	5.0	0.03
D00007257	0.28	73.2	6.0	18	13.4	1.87	4.0	<0.01
D00007258	0.32	73.9	2.6	10	7.1	1.31	3.8	0.04

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006893	0.12	13.2	15.7	40	25.6	3.27	5.3	<0.01
*Rep D00006959	0.15	40.7	9.5	36	31.4	2.95	5.8	<0.01
*Rep D00006986	0.12	41.8	10.8	31	12.3	4.33	10.4	0.01
*Std OREAS920	0.05	71.0	13.9	42	103	3.51	6.8	<0.01
*Std OREAS151B	0.58	16.3	11.1	28	1770	3.26	7.5	0.01
*Std OREAS902	0.02	29.2	953	22	2790	2.92	1.5	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006887	0.14	130	0.16	609	3.11	0.01	13.5	1100
D00006888	0.82	64.2	1.60	1300	2.01	0.01	21.5	690
D00006889	0.66	60.8	1.22	845	1.69	0.01	16.0	1400
D00006890	0.22	85.1	0.46	522	2.42	0.01	13.0	790
D00006891	0.64	10.7	1.94	806	2.09	0.01	31.7	1770
D00006892	0.09	29.8	0.60	1120	2.70	0.01	44.5	1730
D00006893	0.37	6.3	1.04	572	0.80	0.01	28.4	590
D00006894	0.22	15.6	0.32	280	1.34	0.01	7.9	700
D00006895	0.36	26.9	1.36	799	1.07	0.01	35.9	480
D00006896	0.04	42.1	0.44	1100	1.43	0.01	60.0	1790
D00006897	0.29	58.6	0.85	699	2.03	<0.01	30.9	710
D00006898	1.54	14.5	1.69	1220	1.22	0.01	15.7	1400
D00006899	0.79	33.1	1.36	821	1.56	0.01	35.2	1240
D00006900	0.87	28.0	1.34	787	1.16	0.02	33.0	1090
D00006946	0.27	28.0	0.36	389	1.46	0.02	12.6	850
D00006947	0.07	15.1	0.09	142	0.94	0.03	4.1	850
D00006948	0.02	6.2	0.03	30	0.19	0.04	1.4	430
D00006949	0.12	23.8	0.85	461	1.23	0.01	38.4	990
D00006950	0.04	12.8	0.12	341	0.52	0.03	4.7	740
D00006951	0.15	16.0	0.36	167	1.34	0.01	12.7	960
D00006952	0.50	52.5	0.64	869	2.07	0.01	14.0	930
D00006953	0.27	47.7	0.51	532	1.73	0.01	15.9	1100
D00006954	0.06	11.9	0.44	190	0.57	0.02	8.8	810
D00006955	0.05	65.4	0.51	1320	1.18	0.01	28.8	1820
D00006956	0.03	9.3	0.18	216	0.34	0.03	10.1	520
D00006957	0.06	33.8	0.65	918	1.40	0.01	35.7	1010
D00006958	0.07	31.8	0.77	830	2.22	0.01	30.5	1290
D00006959	0.06	19.3	0.90	229	1.40	0.01	25.1	740
D00006960	<0.01	0.5	<0.01	<2	<0.05	0.01	<0.5	<50
D00006961	0.02	17.1	0.11	266	0.19	0.03	9.6	790
D00006962	0.04	14.7	1.04	987	1.15	0.01	23.5	1100
D00006963	0.59	39.1	0.96	1230	4.32	0.01	22.1	820
D00006964	0.57	69.6	0.94	2080	5.31	0.02	22.1	1040
D00006965	0.64	36.9	0.81	452	4.61	0.01	12.1	640
D00006966	0.14	30.4	0.34	394	2.03	0.01	14.9	610
D00006967	0.56	31.3	0.73	805	4.65	0.01	11.9	600
D00006968	0.12	23.5	0.58	579	2.75	0.01	13.0	630
D00006969	0.45	61.1	0.67	425	1.69	0.01	11.3	1380
D00006970	1.94	30.7	3.01	995	1.49	0.02	45.8	800
D00006971	1.93	21.3	3.29	1030	1.82	0.02	49.6	500

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006972	0.36	22.6	0.95	510	2.58	0.01	8.8	310
D00006973	1.21	31.7	2.01	774	2.03	0.02	15.0	1660
D00006974	1.05	48.1	2.11	798	2.35	0.02	13.5	2140
D00006975	0.33	38.6	0.54	299	4.24	0.01	10.4	590
D00006976	0.18	19.5	0.46	203	1.98	0.01	9.7	670
D00006977	0.40	46.4	1.88	875	2.51	0.01	67.7	1620
D00006978	1.57	21.8	2.23	657	2.30	0.01	15.3	1580
D00006979	0.27	48.0	0.53	485	2.71	0.01	8.4	1040
D00006980	0.27	49.3	0.49	502	2.71	0.01	8.6	940
D00006981	0.76	24.5	1.18	304	1.71	0.03	8.8	850
D00006982	0.52	35.6	0.72	392	3.18	0.02	6.9	850
D00006983	0.19	15.0	0.30	205	1.28	0.03	3.6	710
D00006984	0.48	20.9	1.00	556	1.99	0.02	9.6	1190
D00006985	0.12	12.7	1.00	279	1.71	0.01	25.8	1500
D00006986	0.21	28.7	0.93	585	4.65	0.01	10.7	1380
D00006987	0.18	19.6	0.48	275	2.22	0.02	12.8	880
D00006988	0.26	23.7	0.72	279	1.69	0.02	16.5	850
D00006989	0.06	29.9	0.52	290	2.20	0.02	11.2	1600
D00006990	0.55	37.0	1.57	707	1.13	0.01	23.3	1540
D00006991	0.08	36.9	1.46	1090	2.62	<0.01	52.7	1770
D00006992	0.06	38.9	0.81	241	1.64	0.01	27.2	1140
D00006993	0.03	8.0	0.14	92	0.85	0.02	4.3	730
D00006994	0.07	31.0	0.18	108	0.78	0.02	3.9	1100
D00006995	0.03	6.2	0.05	575	0.69	0.02	2.6	660
D00006996	0.09	32.4	1.01	442	2.26	<0.01	51.6	1520
D00006997	0.07	18.3	0.84	298	2.24	<0.01	17.2	720
D00006998	0.15	23.8	0.56	1340	2.48	<0.01	10.8	800
D00006999	0.11	18.5	0.58	262	1.34	<0.01	13.8	890
D00007251	0.30	30.2	0.33	88	1.11	<0.01	9.9	780
D00007252	0.31	189	0.29	423	2.20	0.01	13.1	1710
D00007253	0.30	41.6	0.31	342	1.54	<0.01	9.7	760
D00007254	0.33	44.5	0.31	327	2.37	0.01	8.1	560
D00007255	0.72	31.7	1.08	496	1.18	<0.01	13.1	830
D00007256	0.56	36.7	0.54	463	1.17	<0.01	8.0	990
D00007257	0.21	35.2	0.39	239	1.24	0.01	10.6	700
D00007258	0.21	36.6	0.14	109	1.63	<0.01	4.8	490

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006893	0.38	6.2	1.01	565	0.82	0.01	29.9	570
*Rep D00006959	0.07	19.6	0.94	235	1.41	0.02	25.8	760
*Rep D00006986	0.21	28.5	0.95	597	4.68	0.01	10.4	1420
*Std OREAS920	0.40	35.3	0.99	524	0.46	0.02	35.1	710
*Std OREAS151B	0.39	7.4	1.35	291	58.3	0.15	13.9	550
*Std OREAS902	0.24	14.0	2.11	469	12.2	<0.01	152	690
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006887	8.4	13.8	0.06	1.3	<0.3	8.8	23.5	0.02
D00006888	103	97.9	0.16	6.9	0.6	34.2	14.9	0.25
D00006889	35.5	79.8	0.12	6.7	0.4	25.7	15.2	0.18
D00006890	33.0	25.5	0.26	3.3	0.4	25.4	15.9	0.04
D00006891	52.6	62.9	0.16	3.4	0.3	13.8	1.6	0.19
D00006892	188	12.7	0.54	1.3	<0.3	27.9	1.5	0.04
D00006893	7.2	43.8	0.23	2.2	<0.3	9.7	1.1	0.14
D00006894	195	26.3	0.37	2.0	0.4	13.1	2.1	0.22
D00006895	12.1	36.9	0.20	2.0	0.3	16.7	2.3	0.12
D00006896	11.4	5.7	0.61	4.9	<0.3	24.6	2.2	0.01
D00006897	80.3	39.8	0.15	2.9	<0.3	30.8	7.4	0.07
D00006898	32.1	147	0.10	5.8	0.3	35.6	3.2	0.39
D00006899	21.7	74.3	0.14	4.2	0.3	41.9	6.8	0.23
D00006900	21.1	77.8	0.11	3.8	<0.3	45.9	5.8	0.21
D00006946	13.5	33.8	0.17	2.4	0.3	7.8	8.7	0.10
D00006947	7.6	10.7	0.05	0.4	<0.3	14.3	0.2	0.01
D00006948	1.8	1.5	<0.05	0.5	<0.3	9.9	0.4	0.02
D00006949	23.8	16.1	0.16	4.4	<0.3	14.8	8.0	0.05
D00006950	21.8	4.0	0.07	0.8	<0.3	24.1	1.0	0.03
D00006951	13.7	21.7	0.12	2.3	0.6	14.4	3.4	0.08
D00006952	91.3	62.7	0.16	4.9	0.3	18.6	10.3	0.14
D00006953	48.9	32.3	0.31	3.8	0.4	11.1	13.4	0.11
D00006954	9.1	8.4	0.06	1.8	<0.3	18.7	1.4	0.02
D00006955	17.8	8.0	0.25	2.6	<0.3	65.4	3.2	0.02
D00006956	9.0	2.6	0.06	1.0	<0.3	16.6	1.1	0.02
D00006957	33.4	8.7	0.24	3.8	<0.3	26.8	6.8	0.02
D00006958	26.5	6.4	0.28	3.9	<0.3	41.3	6.4	0.02
D00006959	69.1	11.1	0.27	3.6	<0.3	17.3	6.9	0.05
D00006960	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.3	<0.01
D00006961	6.7	2.6	0.15	1.2	<0.3	24.4	0.4	0.03
D00006962	28.5	6.4	0.20	4.1	<0.3	18.0	4.8	0.02
D00006963	34.1	62.3	0.21	5.9	0.9	17.0	10.7	0.20
D00006964	25.0	66.6	0.24	5.4	1.0	25.6	9.5	0.20
D00006965	8.3	61.2	0.34	2.6	1.4	21.7	9.8	0.11
D00006966	18.6	16.2	0.44	1.6	0.4	14.4	4.1	0.06
D00006967	35.9	58.0	0.18	2.8	2.3	38.4	11.4	0.15
D00006968	102	13.7	0.38	1.5	0.5	12.3	3.1	0.05
D00006969	26.7	48.6	0.16	3.9	0.8	22.0	14.8	0.13
D00006970	13.1	250	0.11	13.7	0.5	61.3	8.4	0.52
D00006971	31.5	232	0.10	13.3	0.5	66.5	7.5	0.48

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006972	47.9	50.9	0.11	2.8	0.3	27.2	10.7	0.10
D00006973	26.4	127	0.08	6.4	0.9	27.7	10.3	0.29
D00006974	22.4	112	0.05	8.4	1.3	47.6	11.8	0.35
D00006975	32.4	38.0	0.13	3.0	0.4	20.5	22.8	0.05
D00006976	34.8	23.5	0.22	1.5	0.5	10.5	5.0	0.06
D00006977	65.8	41.7	0.19	9.3	0.3	31.0	9.1	0.13
D00006978	19.9	128	0.07	6.0	0.8	38.2	9.1	0.33
D00006979	36.1	32.8	0.17	2.5	0.6	15.8	14.0	0.08
D00006980	36.1	32.8	0.16	2.4	0.5	14.5	13.6	0.07
D00006981	18.0	67.6	0.07	4.0	1.1	20.0	4.0	0.18
D00006982	16.0	80.6	0.09	3.2	0.6	34.2	6.3	0.14
D00006983	10.0	26.6	<0.05	1.3	0.3	15.0	1.6	0.07
D00006984	11.6	57.9	0.08	4.5	0.6	23.6	2.1	0.19
D00006985	9.7	13.2	0.10	3.0	0.7	12.6	1.0	0.09
D00006986	28.2	34.4	0.17	3.9	0.9	20.3	4.2	0.19
D00006987	19.3	25.4	0.15	2.0	0.3	9.3	3.1	0.08
D00006988	15.1	32.1	0.08	2.6	0.3	11.0	3.7	0.11
D00006989	17.2	9.4	0.10	1.7	0.3	14.5	1.0	0.04
D00006990	21.6	61.3	0.24	7.5	0.7	23.4	8.1	0.20
D00006991	37.7	13.0	0.23	6.3	0.4	30.5	2.7	0.13
D00006992	23.0	13.6	0.13	3.4	<0.3	25.3	2.3	0.04
D00006993	11.1	7.0	0.12	0.3	0.3	5.8	0.1	0.03
D00006994	8.4	9.6	0.09	0.4	<0.3	14.0	0.2	0.02
D00006995	9.2	7.3	0.07	0.2	<0.3	7.0	<0.1	0.01
D00006996	27.4	13.3	0.13	3.2	<0.3	26.3	1.6	0.06
D00006997	30.9	12.9	0.12	2.5	<0.3	8.9	4.4	0.06
D00006998	23.3	20.8	0.12	2.1	0.6	10.4	2.5	0.08
D00006999	18.6	14.9	0.14	1.4	<0.3	11.3	1.0	0.06
D00007251	12.8	35.9	0.15	2.0	<0.3	7.4	8.7	0.09
D00007252	39.0	32.0	0.28	2.8	0.3	22.6	7.0	0.05
D00007253	20.8	31.1	0.23	1.9	<0.3	7.0	7.1	0.08
D00007254	19.4	40.3	0.22	2.2	0.4	8.4	11.3	0.10
D00007255	4.2	44.2	0.17	2.5	0.3	11.1	3.1	0.20
D00007256	6.0	41.2	0.14	2.6	<0.3	10.3	8.7	0.17
D00007257	10.9	20.4	0.28	1.3	<0.3	7.9	2.2	0.07
D00007258	12.1	29.2	0.24	1.1	0.4	3.9	3.1	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006893	6.9	44.3	0.23	2.2	<0.3	9.7	1.1	0.14
*Rep D00006959	69.4	11.1	0.23	3.8	<0.3	17.5	6.9	0.05
*Rep D00006986	27.4	34.4	0.17	4.1	1.2	20.5	3.9	0.18
*Std OREAS920	20.1	24.6	0.55	2.9	0.9	16.0	15.6	0.13
*Std OREAS151B	41.2	20.5	0.53	9.4	1.0	36.9	2.5	0.07
*Std OREAS902	10.0	8.9	0.83	2.7	<0.3	20.3	5.0	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006887	0.10	9.32	8	<0.1	62.1	333
D00006888	0.62	2.86	114	0.2	23.5	311
D00006889	0.60	1.97	95	0.1	18.8	240
D00006890	0.27	4.07	32	0.2	32.2	148
D00006891	0.50	0.64	92	0.1	4.45	373
D00006892	0.12	2.25	34	0.1	11.8	920
D00006893	0.30	0.35	48	0.2	2.74	95
D00006894	0.26	0.91	73	0.2	4.58	301
D00006895	0.26	0.57	34	0.1	10.8	213
D00006896	0.22	1.80	49	0.3	26.3	253
D00006897	0.36	2.10	54	<0.1	21.0	465
D00006898	0.97	0.82	192	0.1	7.84	250
D00006899	0.59	1.96	99	0.1	15.7	250
D00006900	0.58	1.79	93	0.3	12.1	232
D00006946	0.26	0.94	30	0.1	8.51	54
D00006947	0.09	0.81	12	<0.1	5.99	24
D00006948	0.06	0.29	8	<0.1	2.76	5
D00006949	0.18	0.73	37	<0.1	8.83	186
D00006950	0.06	0.46	19	<0.1	4.03	36
D00006951	0.15	0.60	33	0.2	6.35	65
D00006952	0.51	3.96	60	<0.1	19.7	261
D00006953	0.32	1.37	45	0.1	13.1	146
D00006954	0.05	0.40	36	<0.1	3.95	46
D00006955	0.11	3.40	24	<0.1	23.2	66
D00006956	0.05	0.41	16	<0.1	3.76	61
D00006957	0.09	1.40	36	0.1	12.0	150
D00006958	0.07	1.64	41	<0.1	14.4	153
D00006959	0.08	1.03	48	0.2	6.62	167
D00006960	<0.02	0.08	<1	<0.1	0.61	1
D00006961	0.10	2.01	22	<0.1	8.20	13
D00006962	0.06	0.61	50	0.1	5.47	138
D00006963	0.47	4.15	61	0.2	13.1	113
D00006964	0.43	5.96	59	0.2	19.7	304
D00006965	0.40	4.47	37	0.2	6.21	138
D00006966	0.14	2.19	33	0.4	6.78	133
D00006967	0.44	4.17	36	0.1	7.32	584
D00006968	0.14	2.13	35	0.3	7.36	365
D00006969	0.32	2.88	40	0.2	27.7	131
D00006970	1.81	2.33	120	0.1	17.2	117
D00006971	1.65	2.02	117	0.1	12.7	132

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006972	0.34	2.21	44	0.2	7.56	130
D00006973	0.73	2.28	108	0.2	17.3	141
D00006974	0.81	2.17	84	0.1	21.1	152
D00006975	0.38	3.39	22	<0.1	19.6	81
D00006976	0.19	2.66	25	0.2	13.5	75
D00006977	0.46	2.63	134	0.1	22.8	395
D00006978	0.72	1.92	136	0.2	15.7	162
D00006979	0.25	3.30	28	0.3	16.3	119
D00006980	0.25	3.55	28	0.1	17.1	116
D00006981	0.40	0.82	47	0.1	11.6	98
D00006982	0.59	3.68	41	0.1	15.7	73
D00006983	0.17	1.54	24	<0.1	8.44	40
D00006984	0.44	2.24	102	0.1	11.1	95
D00006985	0.24	0.90	80	0.1	6.31	113
D00006986	0.35	3.03	88	0.2	10.1	109
D00006987	0.19	1.85	39	0.1	8.41	109
D00006988	0.24	1.19	53	0.1	8.44	181
D00006989	0.18	2.71	49	<0.1	13.1	120
D00006990	0.52	1.43	101	0.2	21.2	192
D00006991	0.26	3.34	90	0.1	22.3	342
D00006992	0.16	3.31	47	<0.1	20.4	444
D00006993	0.08	0.74	25	0.1	2.42	26
D00006994	0.09	1.11	15	<0.1	9.93	38
D00006995	0.06	0.37	14	<0.1	1.82	20
D00006996	0.12	6.77	54	<0.1	20.7	1130
D00006997	0.09	0.85	47	<0.1	5.96	181
D00006998	0.17	1.08	39	<0.1	8.03	86
D00006999	0.12	1.08	33	<0.1	5.62	104
D00007251	0.26	0.69	22	0.1	7.87	31
D00007252	0.22	3.40	32	0.2	33.5	62
D00007253	0.23	1.07	29	0.2	10.5	59
D00007254	0.26	1.03	29	0.2	10.9	69
D00007255	0.19	0.85	92	0.1	8.72	70
D00007256	0.24	0.95	47	<0.1	10.9	48
D00007257	0.19	1.18	31	0.1	10.2	76
D00007258	0.18	0.90	19	0.1	6.80	34

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Final : VC172787 Order: PO# BMC17-01016

Report File No.: 0000025145

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006893	0.29	0.34	49	0.2	2.81	96
*Rep D00006959	0.07	1.02	48	0.4	6.65	168
*Rep D00006986	0.36	2.90	84	0.2	10.1	111
*Std OREAS920	0.15	2.15	23	0.5	17.9	104
*Std OREAS151B	0.12	0.63	151	0.6	11.0	236
*Std OREAS902	0.21	2.26	8	2.1	7.46	6
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172788
[Report File No.: 0000024651]

Date: September 14, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01016
Project No.: KZK
Samples: 37
Received: Aug 28, 2017
Pages: Page 1 to 11
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
37	G_LOG02	Pre-preparation processing, sorting, logging, boxing
37	G_WGH79	Weighing of samples and reporting of weights
37	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
37	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007259	0.455	6	0.07	0.70	2	173	0.26	0.10
D00007260	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00007261	0.495	7	0.05	1.12	4	91	0.35	0.24
D00007262	0.350	<5	0.12	1.39	9	204	0.42	0.28
D00007263	0.515	<5	0.17	1.17	10	125	1.61	0.23
D00007264	0.460	<5	0.18	1.50	10	94	7.52	0.16
D00007265	0.635	8	0.18	1.10	12	91	3.65	0.18
D00007266	0.455	<5	0.19	1.63	8	145	1.81	0.26
D00007267	0.585	6	0.07	1.32	6	88	1.87	0.21
D00007268	0.575	<5	0.11	1.57	2	133	0.77	0.23
D00007269	0.235	7	0.18	1.48	4	143	0.79	0.35
D00007270	0.610	5	0.08	1.47	6	139	0.70	0.17
D00007271	0.445	<5	0.03	1.27	4	50	0.55	0.10
D00007272	0.340	<5	0.13	0.56	4	54	0.90	0.06
D00007273	0.245	8	0.09	0.55	1	35	0.35	0.02
D00007274	0.410	<5	0.11	1.21	9	65	1.03	0.18
D00007275	0.530	5	0.32	0.60	5	60	2.70	0.13
D00007276	0.635	<5	0.20	1.87	10	99	1.12	0.60
D00007277	0.710	<5	0.07	1.32	3	74	0.61	0.44
D00007278	0.180	<5	<0.01	0.54	<1	20	0.05	0.06
D00007279	0.410	5	0.05	0.35	9	66	0.63	0.12
D00007280	0.490	<5	0.04	0.61	9	61	1.07	0.09
D00007281	0.445	<5	0.24	1.44	3	139	1.20	0.17
D00007282	0.240	16	0.18	1.40	8	115	0.68	0.15
D00007283	0.640	6	0.12	1.92	9	128	0.61	0.30
D00007284	0.380	<5	0.18	2.25	15	170	1.18	0.20
D00007285	0.525	<5	0.04	2.51	18	212	0.59	0.21
D00007286	0.565	<5	0.10	1.96	14	208	0.80	0.45
D00007287	0.465	<5	0.16	1.87	39	209	0.62	0.60
D00007288	0.250	<5	0.18	0.59	2	58	0.10	0.08
D00007289	0.430	<5	0.06	0.97	4	80	0.21	0.08
D00007290	0.405	<5	0.03	0.73	5	78	0.18	0.10
D00007291	0.295	9	0.05	0.79	9	82	0.25	0.10
D00007292	0.495	5	0.13	0.52	7	57	0.32	0.04
D00007293	0.485	<5	0.14	0.87	10	73	0.24	0.12
D00007294	0.555	7	0.05	0.83	11	49	0.27	0.13
D00007295	0.655	<5	0.03	1.21	10	93	0.10	0.39
*Std OREAS151B		67						
*Std OXK119		3600						
*Blk BLANK		<5						

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Final : VC172788 Order: PO# BMC17-01016

Report File No.: 0000024651

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Rep D00007271		0.02	1.26	4	51	0.54	0.10
*Std OREAS920		0.09	2.63	5	82	0.73	0.35
*Std OREAS151B		0.53	2.66	34	69	0.39	1.38
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007263	5						
*Rep D00007295	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007259	0.21	176	3.1	6	7.0	1.58	4.0	<0.01
D00007260	<0.01	1.43	<0.1	1	0.5	0.02	<0.1	<0.01
D00007261	0.11	52.9	5.2	19	6.4	2.23	4.5	<0.01
D00007262	0.47	82.3	9.3	23	18.1	2.95	5.8	0.01
D00007263	0.37	45.1	7.9	21	53.5	3.00	4.0	<0.01
D00007264	0.77	40.4	9.1	26	175	3.71	4.5	<0.01
D00007265	1.07	76.9	7.8	23	257	3.38	3.7	<0.01
D00007266	0.59	46.5	8.4	32	84.5	3.71	5.3	0.02
D00007267	0.48	66.0	6.6	28	106	2.41	4.1	<0.01
D00007268	0.30	44.0	7.5	34	15.5	2.11	5.0	0.02
D00007269	0.33	55.0	6.7	22	36.6	2.27	4.9	0.09
D00007270	0.19	75.0	8.0	22	24.9	2.60	5.4	<0.01
D00007271	0.18	50.8	5.8	17	15.1	2.57	4.8	<0.01
D00007272	0.15	29.2	3.2	8	14.9	1.71	4.3	0.02
D00007273	0.09	19.4	1.7	11	14.7	0.96	3.1	0.07
D00007274	0.20	52.0	13.2	34	39.3	3.05	3.8	0.02
D00007275	0.12	49.8	5.9	8	16.5	2.15	2.2	0.02
D00007276	0.46	35.5	15.5	18	55.6	4.73	6.3	<0.01
D00007277	0.55	34.8	11.6	10	32.3	3.25	4.2	<0.01
D00007278	0.12	3.99	1.2	3	4.0	0.45	2.1	<0.01
D00007279	0.24	23.9	2.6	9	17.9	1.22	2.0	<0.01
D00007280	0.18	24.1	5.0	17	23.3	1.87	3.5	<0.01
D00007281	0.39	45.0	4.2	27	26.6	2.06	5.5	0.02
D00007282	0.41	35.0	8.7	33	35.2	2.86	5.4	0.03
D00007283	0.21	36.9	9.9	47	36.8	3.61	6.3	0.01
D00007284	0.38	39.3	22.0	50	44.6	4.51	8.0	0.01
D00007285	0.69	50.5	15.2	53	36.9	4.80	8.9	<0.01
D00007286	0.88	67.6	17.0	40	51.7	3.82	6.3	<0.01
D00007287	0.81	62.4	24.5	36	68.7	4.58	6.0	<0.01
D00007288	0.16	20.5	1.8	5	7.5	0.80	2.4	0.02
D00007289	0.23	61.0	3.4	10	5.5	1.76	4.1	0.01
D00007290	0.15	30.5	3.4	15	7.8	1.70	3.8	<0.01
D00007291	0.16	31.2	4.5	20	9.4	2.08	3.4	0.02
D00007292	0.22	38.6	2.1	11	6.6	1.08	3.6	0.02
D00007293	0.22	41.2	4.4	19	9.0	1.93	3.4	0.03
D00007294	0.19	49.8	5.1	18	9.1	2.33	4.3	0.01
D00007295	0.32	48.6	11.2	12	9.5	3.31	4.0	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007271	0.18	50.5	6.0	17	16.1	2.57	4.9	<0.01
*Std OREAS920	0.07	72.4	13.5	43	99.3	3.87	7.2	<0.01
*Std OREAS151B	0.56	16.0	10.6	27	1670	3.38	7.4	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007259	0.20	108	0.14	317	1.77	0.01	4.5	660
D00007260	<0.01	0.7	<0.01	<2	2.38	0.01	<0.5	<50
D00007261	0.22	26.6	0.52	165	1.54	0.01	7.8	890
D00007262	0.21	45.7	0.66	553	2.10	0.01	12.0	580
D00007263	0.16	24.1	0.56	447	2.28	0.01	10.5	820
D00007264	0.08	22.9	0.74	473	2.65	0.02	15.6	630
D00007265	0.18	42.0	0.58	260	2.95	0.01	15.2	820
D00007266	0.19	27.1	0.87	412	2.47	0.02	12.6	730
D00007267	0.23	36.7	0.78	182	2.18	0.01	14.0	750
D00007268	0.27	23.5	0.83	172	1.67	0.01	13.7	790
D00007269	0.17	52.1	0.54	519	1.84	0.02	11.2	1060
D00007270	0.22	45.2	0.66	560	1.73	0.02	12.1	770
D00007271	0.18	17.3	0.52	366	1.95	0.01	10.5	590
D00007272	0.18	14.3	0.17	153	2.51	0.01	5.5	870
D00007273	0.08	7.6	0.06	49	1.46	0.01	4.4	940
D00007274	0.33	27.5	0.80	1080	2.88	0.02	30.5	360
D00007275	0.15	24.4	0.22	706	3.18	0.02	6.7	510
D00007276	0.71	20.0	1.12	1810	3.09	0.01	16.9	1820
D00007277	0.57	17.4	0.72	1080	2.63	0.01	9.9	1490
D00007278	0.03	2.1	0.04	56	0.16	0.05	0.8	290
D00007279	0.12	12.7	0.13	220	3.07	0.02	5.2	770
D00007280	0.19	12.8	0.27	208	2.69	0.02	9.1	390
D00007281	0.23	25.5	0.79	173	1.59	0.01	9.6	620
D00007282	0.15	18.0	0.82	618	1.90	0.02	14.0	970
D00007283	0.30	20.0	1.25	303	1.63	0.01	20.6	1200
D00007284	0.22	20.0	1.19	1410	2.73	0.02	21.3	970
D00007285	0.22	26.2	1.41	636	2.04	0.01	23.0	780
D00007286	0.38	38.9	1.20	816	1.73	0.02	25.0	1340
D00007287	0.33	27.4	1.12	908	6.69	0.02	46.1	2710
D00007288	0.08	12.1	0.14	81	0.51	0.04	3.1	620
D00007289	0.29	25.7	0.28	163	1.02	0.02	4.1	680
D00007290	0.09	16.5	0.15	140	1.53	0.01	9.2	400
D00007291	0.12	16.0	0.26	211	1.39	0.01	13.0	520
D00007292	0.11	21.7	0.06	78	1.38	0.01	5.5	300
D00007293	0.11	22.2	0.23	181	1.44	0.01	12.1	560
D00007294	0.23	24.0	0.30	215	1.24	0.01	9.6	480
D00007295	0.57	23.0	0.61	420	1.01	0.02	10.7	1200

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007271	0.18	17.1	0.51	366	1.92	0.02	10.3	610
*Std OREAS920	0.46	38.1	1.10	532	0.40	0.03	35.2	750
*Std OREAS151B	0.38	7.6	1.39	286	55.3	0.17	13.8	560
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007259	14.1	29.0	0.17	0.8	<0.3	6.4	2.1	0.04
D00007260	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.4	<0.01
D00007261	15.8	27.5	0.16	2.7	0.4	8.4	7.4	0.10
D00007262	19.9	31.7	0.19	3.5	0.4	13.2	7.5	0.11
D00007263	23.3	18.8	0.20	2.6	0.4	13.5	8.4	0.08
D00007264	69.4	9.7	0.28	2.2	<0.3	6.8	6.3	0.03
D00007265	28.7	18.3	0.30	2.6	<0.3	10.4	15.2	0.05
D00007266	18.7	21.7	0.17	3.3	0.5	9.5	10.0	0.11
D00007267	29.4	24.1	0.21	2.8	0.3	9.4	13.5	0.11
D00007268	28.5	32.0	0.28	3.3	0.5	10.2	13.2	0.14
D00007269	16.7	25.2	0.17	1.9	0.4	26.8	3.1	0.06
D00007270	18.2	29.1	0.15	3.1	0.4	17.0	13.9	0.10
D00007271	16.3	24.6	0.21	2.1	0.4	10.8	8.2	0.09
D00007272	24.4	17.7	0.25	1.0	0.6	6.5	1.2	0.06
D00007273	9.3	10.0	0.17	0.6	0.5	5.3	0.4	0.03
D00007274	40.6	56.0	0.11	3.6	<0.3	29.2	15.0	0.10
D00007275	67.4	19.8	0.10	1.5	<0.3	21.5	14.8	0.02
D00007276	41.0	101	0.09	6.9	0.5	43.5	13.4	0.23
D00007277	27.8	58.8	0.06	4.2	<0.3	31.3	18.6	0.16
D00007278	1.7	2.3	<0.05	0.2	<0.3	7.2	0.5	0.02
D00007279	6.1	14.9	0.20	1.0	0.4	16.7	1.3	0.04
D00007280	8.5	33.4	0.24	1.8	0.5	12.0	2.6	0.11
D00007281	14.0	36.9	0.09	2.3	0.4	11.2	4.8	0.08
D00007282	12.5	19.2	0.12	3.3	0.4	10.4	3.7	0.10
D00007283	19.5	38.0	0.14	4.8	0.4	15.3	8.4	0.15
D00007284	34.7	25.2	0.16	4.0	0.5	11.1	3.3	0.15
D00007285	21.2	25.4	0.15	5.7	0.7	10.7	6.1	0.21
D00007286	26.2	38.3	0.18	4.6	0.4	16.1	13.5	0.14
D00007287	32.4	28.5	0.21	4.2	0.4	18.1	9.8	0.15
D00007288	4.0	9.4	0.06	0.4	<0.3	7.0	0.3	0.03
D00007289	12.5	32.2	0.17	0.5	0.3	4.9	0.4	0.06
D00007290	8.5	11.5	0.48	1.0	0.5	7.9	1.4	0.04
D00007291	21.2	13.3	0.52	0.8	0.3	9.0	0.5	0.03
D00007292	14.8	18.6	0.40	0.6	0.6	6.1	0.3	0.05
D00007293	17.2	13.3	0.52	1.1	0.4	8.8	0.9	0.05
D00007294	17.6	26.5	0.44	2.2	0.4	8.8	6.2	0.12
D00007295	45.0	48.5	0.20	4.7	<0.3	11.8	8.4	0.20

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007271	16.3	25.8	0.18	2.1	0.4	10.9	8.1	0.08
*Std OREAS920	19.6	26.9	0.52	3.2	1.1	16.8	16.5	0.16
*Std OREAS151B	38.0	19.6	0.50	9.3	1.0	36.9	2.7	0.08
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007259	0.22	2.01	13	0.1	19.3	52
D00007260	<0.02	0.08	1	<0.1	0.73	2
D00007261	0.25	1.10	39	0.2	8.59	70
D00007262	0.25	2.89	44	0.2	15.4	136
D00007263	0.18	2.09	33	0.2	7.71	157
D00007264	0.09	1.75	27	0.2	7.35	294
D00007265	0.22	3.03	24	0.2	16.6	276
D00007266	0.22	1.38	44	0.3	8.10	239
D00007267	0.23	1.88	32	1.4	10.0	230
D00007268	0.28	1.59	38	0.2	9.94	193
D00007269	0.21	4.54	29	0.1	21.4	186
D00007270	0.25	3.39	29	0.2	15.7	108
D00007271	0.21	1.94	26	0.1	9.30	89
D00007272	0.15	1.20	29	0.2	4.12	45
D00007273	0.13	1.44	14	0.1	3.92	29
D00007274	0.48	3.77	26	<0.1	8.45	172
D00007275	0.20	3.31	11	<0.1	8.28	57
D00007276	0.74	4.69	58	<0.1	18.5	184
D00007277	0.44	2.12	34	<0.1	14.1	177
D00007278	0.03	0.19	11	<0.1	0.72	9
D00007279	0.07	1.39	21	0.1	4.12	46
D00007280	0.13	1.43	32	0.1	3.79	69
D00007281	0.22	2.92	29	0.1	7.68	133
D00007282	0.17	2.11	44	0.1	7.74	126
D00007283	0.32	1.08	57	0.5	7.74	182
D00007284	0.27	1.74	70	0.3	8.16	180
D00007285	0.21	1.58	83	0.2	9.38	202
D00007286	0.29	1.66	52	0.2	15.9	202
D00007287	0.26	2.38	92	0.2	11.0	316
D00007288	0.07	0.95	15	<0.1	4.06	25
D00007289	0.19	1.61	22	<0.1	7.75	201
D00007290	0.14	0.90	29	0.5	4.24	33
D00007291	0.12	0.93	31	0.5	3.98	49
D00007292	0.11	0.84	30	0.3	3.32	29
D00007293	0.12	1.35	32	0.4	6.34	48
D00007294	0.18	0.95	37	0.4	6.13	47
D00007295	0.43	0.87	49	<0.1	9.40	227

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Final : VC172788 Order: PO# BMC17-01016

Report File No.: 0000024651

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007271	0.21	2.04	27	0.1	9.52	87
*Std OREAS920	0.17	2.39	23	0.5	19.1	114
*Std OREAS151B	0.13	0.65	132	0.6	10.8	249
*Blk BLANK	<0.02	<0.05	1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172790
[Report File No.: 0000025204]

Date: October 11, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01015
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006351	0.295	<5	0.09	0.48	11	39	0.53	0.02
D00006352	0.440	<5	0.07	0.79	6	67	0.27	0.12
D00006353	0.505	<5	0.51	0.61	14	205	0.45	0.02
D00006354	0.285	<5	0.63	0.51	15	146	0.34	0.02
D00006355	0.535	5	0.60	0.53	14	137	0.30	0.04
D00006356	0.570	<5	0.29	1.12	26	137	0.27	0.20
D00006357	0.480	<5	0.30	0.33	18	126	0.35	0.03
D00006358	0.590	<5	0.27	0.76	10	178	0.22	0.13
D00006359	0.440	<5	0.33	0.75	24	117	0.25	0.08
D00006360	0.375	<5	0.33	0.64	27	111	0.26	0.07
D00006361	0.375	<5	0.17	1.44	12	190	0.28	0.14
D00006362	0.295	<5	0.18	0.40	1	29	0.06	0.03
D00006363	0.185	<5	0.93	0.36	4	266	0.11	0.04
D00006364	0.350	12	0.13	0.41	9	79	0.53	0.07
D00006365	0.105	9	4.31	0.72	4	363	0.27	0.37
D00006366	0.555	<5	0.10	0.67	8	59	0.21	0.04
D00006367	0.655	<5	0.04	0.63	11	63	0.22	0.14
D00006368	0.450	<5	0.08	0.88	3	79	0.17	0.20
D00006369	0.620	<5	0.04	0.61	3	59	0.19	0.12
D00006370	0.565	<5	0.05	1.06	7	76	0.19	0.17
D00006371	0.395	<5	0.07	1.39	3	247	0.20	0.13
D00006372	0.555	<5	0.05	0.96	5	83	0.17	0.20
D00006373	0.485	<5	0.02	0.74	3	98	0.20	0.22
D00006374	0.570	<5	0.09	0.86	3	99	0.19	0.22
D00006375	0.485	<5	0.07	0.90	4	135	0.16	0.24
D00006376	0.165	<5	0.06	0.82	5	114	0.17	0.57
D00006377	0.360	<5	0.12	1.60	6	197	0.13	0.26
D00006378	0.400	<5	0.09	0.98	5	155	0.18	0.30
D00006379	0.330	<5	1.72	0.75	4	135	0.28	0.29
D00006380	0.110	<5	<0.01	<0.01	<1	<5	<0.02	<0.01
D00006381	0.080	<5	1.38	0.68	7	339	0.19	1.13
D00006382	0.355	<5	0.13	0.59	4	51	0.13	<0.01
D00006383	0.370	<5	0.48	0.57	7	45	0.29	0.04
D00006384	0.405	<5	0.06	0.76	4	92	0.18	0.08
D00006385	0.455	<5	0.13	1.04	6	117	0.16	0.06
D00006386	0.460	9	0.08	1.42	23	103	0.19	0.26
D00006387	0.645	<5	0.23	1.59	11	153	0.20	0.42
D00006388	0.540	<5	0.16	1.46	7	114	0.15	0.46
D00006389	0.430	<5	0.17	1.42	11	123	0.20	0.54
D00006390	0.340	<5	0.14	0.85	2	125	0.16	0.41

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006391	0.500	7	0.18	1.12	5	77	0.22	0.19
D00006392	0.555	<5	0.08	1.33	6	73	0.19	0.20
D00006393	0.060	<5	0.72	0.55	1	149	0.24	1.43
D00006394	0.630	8	0.14	1.38	11	147	0.16	0.37
D00006395	0.365	<5	0.04	0.78	6	43	0.21	0.06
D00006396	0.415	<5	0.40	1.92	14	199	0.24	0.40
D00006546	0.380	<5	0.10	1.01	10	94	0.33	0.16
D00006547	0.250	<5	0.14	1.05	37	145	0.23	0.70
D00006548	0.150	<5	0.16	0.97	16	169	0.31	0.64
D00006549	0.265	<5	0.11	0.80	25	85	0.25	0.35
D00006550	0.235	<5	0.11	0.84	24	89	0.22	0.35
D00006551	0.485	<5	0.02	0.71	3	63	0.16	0.28
D00006552	0.295	<5	0.07	0.97	20	125	0.24	0.32
D00006553	0.300	<5	0.09	1.07	8	145	0.17	0.51
D00006598	0.565	<5	0.21	1.13	13	95	0.35	0.41
D00006599	0.325	<5	0.13	1.04	17	71	0.36	0.13
D00006600	0.365	<5	0.15	1.50	18	68	0.26	0.24
D00006601	0.510	<5	0.08	1.50	9	88	0.25	0.24
D00006602	0.290	10	0.88	0.57	24	115	1.03	0.16
D00006603	0.395	<5	0.12	0.53	9	91	0.64	0.12
D00006604	0.345	<5	0.32	0.74	14	123	0.50	0.04
D00006605	0.380	<5	0.21	1.02	7	203	0.38	0.09
D00006606	0.325	<5	0.40	1.01	9	437	0.40	0.19
D00006607	0.130	<5	0.36	1.21	7	319	0.49	0.24
D00006608	0.170	<5	0.49	1.20	9	286	0.34	0.23
D00006609	0.310	<5	0.15	2.04	8	198	0.19	0.17
D00006610	0.165	<5	0.80	0.67	7	139	0.26	0.05
D00006611	0.290	<5	0.21	0.73	8	177	0.29	0.09
D00006612	0.360	5	0.60	0.55	5	270	0.30	0.04
D00006613	0.375	<5	0.21	1.92	<1	140	0.16	0.16
D00006614	0.325	<5	0.26	0.63	6	178	0.35	0.05
D00006615	0.390	<5	0.15	0.99	7	110	0.50	0.15
D00006616	0.440	<5	0.04	0.85	5	101	0.42	0.17
D00006617	0.235	<5	0.11	0.44	7	110	0.32	0.12
D00006618	0.340	<5	0.07	0.77	7	94	0.25	0.16
D00006619	0.455	<5	0.09	0.80	6	100	0.24	0.16
*Std OREAS151B		65						
*Std OXK119		3630						
*Std AMIS0474		159						
*Blk BLANK		<5						

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Final : VC172790 Order: PO# BMC17-01015

Report File No.: 0000025204

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00006366		0.10	0.64	8	57	0.21	0.04
*Rep D00006547		0.14	1.05	37	150	0.22	0.73
*Rep D00006601		0.08	1.63	10	94	0.25	0.24
*Std OREAS920		0.08	2.28	5	75	0.77	0.31
*Std OREAS151B		0.54	2.68	33	67	0.43	1.28
*Std OREAS902		0.30	0.51	616	14	9.21	3.96
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006351	0.60	63.2	3.2	8	9.1	1.20	1.7	0.02
D00006352	0.62	59.8	7.1	12	10.9	1.88	3.1	<0.01
D00006353	0.89	128	17.8	5	15.5	1.03	1.9	0.07
D00006354	0.70	93.4	10.7	7	16.9	1.17	2.0	0.08
D00006355	0.70	87.5	7.9	6	15.2	1.14	2.0	0.07
D00006356	0.85	109	10.2	17	12.0	2.23	3.7	0.04
D00006357	0.58	68.7	5.5	4	13.0	1.26	1.5	0.07
D00006358	1.03	117	8.1	5	12.4	1.63	2.7	0.03
D00006359	0.52	49.0	6.8	20	14.6	1.82	2.6	0.04
D00006360	0.57	41.7	6.3	21	16.0	1.75	2.4	0.06
D00006361	0.55	66.4	7.4	15	13.7	2.68	5.4	0.01
D00006362	0.10	18.9	0.4	2	4.1	0.19	1.4	0.01
D00006363	0.81	31.6	1.5	8	8.7	0.65	1.3	0.09
D00006364	2.03	37.3	4.6	12	11.7	1.54	3.5	0.05
D00006365	7.61	116	2.7	18	19.8	1.31	2.0	0.31
D00006366	0.23	36.0	4.0	14	10.0	1.47	2.5	<0.01
D00006367	0.06	72.6	3.8	12	13.0	1.04	2.0	<0.01
D00006368	0.03	83.3	4.7	17	7.0	1.55	3.1	0.02
D00006369	0.11	158	3.1	10	8.4	1.51	2.8	0.01
D00006370	0.06	97.3	3.7	13	9.8	2.14	3.7	0.01
D00006371	0.13	64.2	5.9	43	15.7	2.67	8.7	0.01
D00006372	0.06	55.5	4.1	15	9.6	2.02	3.3	0.02
D00006373	0.04	63.7	2.6	16	5.3	1.40	3.0	<0.01
D00006374	0.70	71.8	7.5	15	8.7	2.11	3.1	0.05
D00006375	0.09	49.3	5.3	17	14.8	1.80	3.0	0.01
D00006376	0.08	51.9	4.6	15	8.9	1.91	4.1	0.02
D00006377	0.31	50.1	13.6	20	11.8	3.64	6.4	0.07
D00006378	0.07	94.8	6.9	13	10.8	2.49	4.2	<0.01
D00006379	0.49	64.2	16.3	12	26.5	2.57	3.1	0.04
D00006380	<0.01	0.75	<0.1	<1	<0.5	0.02	<0.1	<0.01
D00006381	0.36	111	14.7	11	16.0	1.81	2.4	0.21
D00006382	0.05	76.7	3.0	5	7.5	1.21	2.8	<0.01
D00006383	0.11	40.3	4.1	12	9.7	1.91	4.3	0.03
D00006384	0.14	59.8	5.7	14	7.8	1.92	4.2	0.01
D00006385	0.62	73.7	7.5	15	8.0	2.68	4.1	0.03
D00006386	0.32	69.1	15.0	33	32.2	4.10	4.9	<0.01
D00006387	0.63	76.1	18.7	36	42.3	4.01	6.1	<0.01
D00006388	0.29	52.7	14.3	34	29.2	3.54	4.7	<0.01
D00006389	0.19	53.4	13.7	26	24.1	3.31	4.8	0.02
D00006390	0.10	31.7	4.4	15	5.7	1.38	5.0	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006391	0.09	45.0	7.9	20	7.8	2.28	6.0	<0.01
D00006392	0.07	48.8	7.4	19	9.9	2.89	4.4	<0.01
D00006393	0.51	44.3	3.3	9	10.7	0.72	2.4	0.11
D00006394	0.16	77.5	11.7	24	32.4	3.36	4.9	0.02
D00006395	0.15	42.5	5.8	11	8.6	2.68	3.6	<0.01
D00006396	0.58	84.6	13.3	31	16.9	3.55	5.6	0.03
D00006546	0.36	93.8	9.9	17	17.8	2.65	3.3	0.01
D00006547	0.22	36.4	21.0	28	29.3	4.49	3.2	0.02
D00006548	0.27	35.5	14.2	16	19.6	3.84	2.9	0.02
D00006549	0.16	45.2	12.0	6	16.5	3.92	2.7	<0.01
D00006550	0.21	47.0	7.8	5	13.4	3.37	2.8	<0.01
D00006551	0.06	64.2	5.9	7	7.9	2.17	2.3	<0.01
D00006552	0.14	54.5	7.5	8	11.8	3.46	3.2	<0.01
D00006553	0.17	30.7	4.3	10	10.2	1.68	3.8	<0.01
D00006598	0.13	50.8	12.6	18	34.0	2.17	4.0	0.02
D00006599	0.11	23.0	4.4	17	8.1	1.84	4.4	0.02
D00006600	0.12	21.8	7.7	22	10.5	2.64	5.1	0.02
D00006601	0.16	54.9	10.0	28	22.9	2.64	4.7	0.01
D00006602	3.32	53.4	20.7	9	50.0	3.32	1.7	0.07
D00006603	2.91	101	6.4	13	12.4	1.27	2.0	0.06
D00006604	0.48	123	5.0	7	13.0	1.72	2.8	0.05
D00006605	0.71	78.2	8.0	14	12.3	2.11	3.8	0.03
D00006606	0.96	72.4	6.9	12	15.7	2.49	4.5	0.04
D00006607	0.56	65.3	8.6	12	22.0	2.86	5.2	0.05
D00006608	0.93	113	6.8	13	14.0	2.34	5.4	0.05
D00006609	0.52	87.5	12.1	21	10.9	3.55	7.4	<0.01
D00006610	0.93	62.0	3.6	6	9.4	1.30	2.6	0.06
D00006611	0.41	56.2	4.1	6	8.8	1.34	2.7	0.04
D00006612	0.84	65.4	1.7	11	8.5	0.79	1.9	0.05
D00006613	0.14	67.3	9.0	23	5.2	3.65	7.7	0.02
D00006614	0.50	57.5	3.0	7	6.5	1.07	2.3	0.02
D00006615	1.42	106	6.4	11	12.7	2.19	3.8	0.01
D00006616	0.67	78.2	5.3	9	9.9	1.97	3.2	<0.01
D00006617	0.13	63.8	10.1	9	26.0	0.86	1.8	0.01
D00006618	0.19	206	9.3	15	14.2	2.03	3.2	<0.01
D00006619	0.05	116	2.9	11	6.4	1.38	2.8	0.02

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006366	0.23	34.0	3.9	14	9.6	1.46	2.5	0.02
*Rep D00006547	0.24	37.7	21.6	28	31.4	4.54	3.3	0.01
*Rep D00006601	0.17	56.1	9.6	30	22.2	2.72	5.2	<0.01
*Std OREAS920	0.07	72.1	15.0	43	109	3.68	6.6	<0.01
*Std OREAS151B	0.62	16.2	11.0	26	1760	3.55	7.5	<0.01
*Std OREAS902	0.03	29.0	947	22	2900	3.17	1.5	0.03
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006351	0.12	26.1	0.08	312	1.04	0.01	6.6	340
D00006352	0.23	27.3	0.28	326	1.01	0.01	11.5	700
D00006353	0.08	55.8	0.06	540	3.43	<0.01	17.4	510
D00006354	0.09	45.6	0.08	419	2.62	<0.01	12.2	450
D00006355	0.10	44.4	0.09	290	2.23	<0.01	9.3	520
D00006356	0.41	53.9	0.59	526	1.61	<0.01	11.5	620
D00006357	0.07	35.5	0.07	312	2.61	<0.01	11.5	340
D00006358	0.21	57.8	0.17	472	1.30	<0.01	14.5	890
D00006359	0.11	27.3	0.36	193	2.13	<0.01	16.4	480
D00006360	0.06	24.3	0.28	158	2.49	<0.01	17.0	460
D00006361	0.44	34.8	0.70	198	1.47	0.01	14.5	680
D00006362	0.02	10.5	0.03	11	0.28	0.03	1.4	290
D00006363	0.05	15.7	0.05	42	1.19	0.02	6.1	770
D00006364	0.11	15.3	0.08	413	3.26	<0.01	8.9	620
D00006365	0.08	65.9	0.05	144	2.75	0.01	11.3	2530
D00006366	0.08	17.4	0.18	111	1.82	0.01	10.1	310
D00006367	0.11	34.8	0.17	55	1.82	<0.01	10.3	540
D00006368	0.20	54.2	0.35	68	1.29	0.01	11.3	760
D00006369	0.13	68.5	0.14	86	1.43	<0.01	7.7	690
D00006370	0.18	48.4	0.28	175	1.40	0.01	10.8	800
D00006371	0.44	28.0	0.90	399	1.57	0.01	14.4	590
D00006372	0.22	27.9	0.30	173	1.33	0.01	11.5	860
D00006373	0.18	31.9	0.24	63	1.07	0.01	8.1	650
D00006374	0.23	32.3	0.26	627	1.17	0.01	11.0	790
D00006375	0.26	24.2	0.27	165	1.00	0.01	11.7	800
D00006376	0.20	27.1	0.25	246	1.24	0.01	8.6	550
D00006377	0.64	22.8	0.72	994	1.18	0.01	12.8	890
D00006378	0.37	51.4	0.36	354	1.51	0.01	9.8	510
D00006379	0.09	43.2	0.12	1690	3.29	0.03	31.5	1050
D00006380	<0.01	0.4	<0.01	<2	<0.05	<0.01	<0.5	<50
D00006381	0.09	78.4	0.07	1400	2.51	<0.01	12.9	2230
D00006382	0.12	35.6	0.04	80	1.40	<0.01	6.5	190
D00006383	0.12	18.5	0.13	161	1.91	<0.01	9.0	430
D00006384	0.30	31.9	0.23	159	1.57	0.02	9.4	390
D00006385	0.31	34.6	0.30	213	1.35	<0.01	10.1	400
D00006386	0.07	21.8	0.69	714	1.54	0.01	36.1	630
D00006387	0.10	37.9	0.88	594	1.38	0.01	40.7	1120
D00006388	0.09	22.3	0.88	516	1.42	<0.01	28.7	720
D00006389	0.11	28.8	0.66	549	1.09	0.01	23.4	660
D00006390	0.18	15.9	0.30	301	0.77	0.01	7.3	350

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006391	0.20	20.5	0.43	312	1.44	0.01	9.8	530
D00006392	0.27	23.7	0.52	198	1.46	<0.01	12.5	720
D00006393	0.11	34.5	0.13	404	1.10	0.01	10.1	1080
D00006394	0.12	51.3	0.68	395	1.20	0.01	27.7	1100
D00006395	0.27	20.4	0.26	183	1.54	<0.01	9.1	350
D00006396	0.15	44.2	0.77	383	1.49	0.01	23.7	1070
D00006546	0.15	29.9	0.34	443	1.87	0.01	19.8	820
D00006547	0.37	18.8	0.36	1910	2.11	0.01	35.0	780
D00006548	0.34	18.2	0.25	1970	2.71	0.01	19.1	800
D00006549	0.39	22.1	0.18	1970	2.48	0.01	14.0	720
D00006550	0.38	23.4	0.15	1270	2.54	0.01	8.7	650
D00006551	0.26	26.3	0.17	325	1.63	<0.01	6.9	840
D00006552	0.40	27.6	0.16	702	3.42	0.01	7.5	600
D00006553	0.39	19.2	0.18	61	2.11	<0.01	5.5	570
D00006598	0.09	23.8	0.47	178	1.25	<0.01	12.7	1480
D00006599	0.10	11.4	0.40	148	0.92	<0.01	10.3	590
D00006600	0.17	10.4	0.68	202	0.83	<0.01	15.8	1100
D00006601	0.12	27.1	0.73	369	0.87	0.01	23.7	900
D00006602	0.15	24.0	0.11	1270	2.11	0.01	32.0	680
D00006603	0.15	45.2	0.17	580	1.21	<0.01	14.3	560
D00006604	0.17	69.1	0.18	203	2.34	<0.01	10.0	560
D00006605	0.38	39.8	0.42	419	1.33	0.01	11.9	610
D00006606	0.38	30.5	0.37	223	2.07	0.01	10.6	730
D00006607	0.33	36.4	0.44	327	1.47	0.02	11.2	870
D00006608	0.41	63.7	0.56	278	1.36	0.02	9.3	750
D00006609	1.13	46.3	1.25	418	0.95	0.01	10.2	630
D00006610	0.15	33.0	0.18	90	1.30	0.01	8.3	820
D00006611	0.18	33.1	0.22	102	1.58	0.01	9.3	500
D00006612	0.09	28.8	0.06	92	1.66	0.01	7.4	1150
D00006613	0.74	52.3	0.98	308	1.64	0.01	6.6	870
D00006614	0.09	30.9	0.13	65	1.67	0.01	7.9	530
D00006615	0.21	49.3	0.33	295	2.19	0.01	13.9	780
D00006616	0.22	35.6	0.26	203	1.75	0.01	10.5	790
D00006617	0.12	38.2	0.12	208	1.44	0.01	7.4	380
D00006618	0.17	102	0.26	227	1.82	0.01	12.6	660
D00006619	0.17	63.3	0.22	52	2.22	0.01	7.6	530

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006366	0.08	16.8	0.18	112	1.75	<0.01	10.1	310
*Rep D00006547	0.40	19.1	0.38	1940	2.17	0.01	35.5	790
*Rep D00006601	0.12	28.4	0.76	405	0.92	0.01	22.2	960
*Std OREAS920	0.38	35.8	1.03	535	0.37	0.03	39.4	700
*Std OREAS151B	0.37	7.3	1.47	301	59.2	0.16	14.7	550
*Std OREAS902	0.24	13.6	2.29	490	12.9	0.01	161	660
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006351	23.5	15.7	0.53	0.5	<0.3	3.7	1.7	0.01
D00006352	20.2	35.5	0.39	1.8	<0.3	6.2	6.8	0.07
D00006353	31.5	8.4	0.75	0.6	<0.3	13.4	8.1	<0.01
D00006354	39.8	8.9	1.21	0.7	<0.3	9.6	7.7	0.01
D00006355	37.4	10.2	1.12	0.7	<0.3	10.2	7.5	0.01
D00006356	29.0	45.9	0.57	1.8	<0.3	11.1	18.2	0.10
D00006357	60.0	6.1	1.09	0.7	<0.3	5.4	16.6	0.01
D00006358	22.8	22.0	0.48	1.3	<0.3	7.9	6.7	0.04
D00006359	31.7	13.2	1.23	1.4	<0.3	6.3	7.4	0.05
D00006360	40.7	8.1	1.55	1.2	<0.3	6.8	7.7	0.03
D00006361	17.5	36.2	0.55	3.0	0.4	8.0	8.7	0.13
D00006362	3.8	2.5	0.09	0.4	<0.3	4.0	1.0	0.01
D00006363	14.3	6.1	0.36	0.8	<0.3	5.0	0.9	0.02
D00006364	22.4	19.7	0.65	0.7	0.5	6.3	0.9	0.04
D00006365	73.7	9.2	0.32	1.7	<0.3	18.6	1.6	0.01
D00006366	15.4	11.5	0.41	1.0	<0.3	5.0	1.9	0.04
D00006367	13.3	13.1	0.27	1.2	<0.3	6.0	14.7	0.03
D00006368	12.0	25.8	0.18	2.1	<0.3	8.4	13.2	0.08
D00006369	35.5	13.8	0.26	0.9	<0.3	6.9	3.9	0.02
D00006370	11.0	19.8	0.33	1.4	2.3	7.2	7.8	0.04
D00006371	10.4	39.1	0.20	4.2	1.7	7.6	5.5	0.14
D00006372	10.2	24.9	0.33	1.7	0.3	9.6	7.0	0.06
D00006373	11.5	23.3	0.24	1.6	<0.3	8.7	8.6	0.06
D00006374	16.1	25.1	0.22	2.0	<0.3	8.5	11.1	0.06
D00006375	7.6	29.8	0.22	2.5	<0.3	7.5	6.2	0.06
D00006376	8.1	22.9	0.32	1.8	0.3	14.1	3.4	0.07
D00006377	11.1	67.7	0.29	5.1	0.4	11.3	5.1	0.27
D00006378	10.5	39.8	0.21	2.9	3.3	10.6	9.3	0.11
D00006379	29.3	11.9	0.24	1.1	<0.3	15.5	1.0	0.02
D00006380	0.3	<0.2	<0.05	<0.1	<0.3	<0.5	0.2	<0.01
D00006381	31.7	9.4	0.35	0.9	<0.3	49.8	0.7	<0.01
D00006382	6.1	12.6	0.20	1.0	<0.3	3.2	9.9	0.01
D00006383	17.2	18.4	0.53	1.3	0.5	4.7	3.8	0.06
D00006384	11.6	34.9	0.27	1.4	15.0	6.8	1.4	0.06
D00006385	19.7	38.5	0.24	2.4	0.4	5.1	13.4	0.09
D00006386	35.5	8.9	0.38	4.4	<0.3	13.5	8.1	0.04
D00006387	34.5	13.6	0.31	5.4	0.5	20.2	9.2	0.07
D00006388	21.5	13.0	0.16	3.6	<0.3	21.2	6.7	0.03
D00006389	34.4	15.0	0.28	3.8	<0.3	22.6	7.1	0.05
D00006390	14.4	36.7	0.10	2.0	0.8	19.4	2.4	0.07

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006391	15.6	30.7	0.18	2.4	0.6	8.0	4.3	0.11
D00006392	17.1	33.3	0.18	3.0	0.4	9.3	9.0	0.10
D00006393	5.9	10.7	0.26	1.0	0.3	62.4	1.6	0.03
D00006394	21.7	13.7	0.36	4.8	<0.3	16.5	11.0	0.05
D00006395	15.6	29.9	0.23	2.1	0.4	5.4	8.8	0.08
D00006396	45.2	25.9	0.23	3.9	0.4	20.5	5.8	0.08
D00006546	41.4	18.7	0.62	2.1	<0.3	12.4	6.6	0.05
D00006547	19.2	50.9	0.16	4.5	<0.3	15.0	4.4	0.10
D00006548	21.9	42.8	0.14	3.4	<0.3	13.2	4.1	0.05
D00006549	13.0	44.8	0.07	2.4	<0.3	10.2	8.6	0.06
D00006550	16.2	42.7	0.10	1.8	<0.3	10.1	7.2	0.05
D00006551	8.8	31.9	0.12	1.5	0.5	7.0	13.2	0.06
D00006552	19.6	45.8	0.11	2.4	<0.3	7.1	12.7	0.04
D00006553	15.0	44.6	0.10	1.8	0.3	16.8	3.3	0.04
D00006598	12.5	18.7	0.14	1.9	0.3	16.1	3.0	0.04
D00006599	12.5	20.2	0.12	0.9	0.3	6.7	0.3	0.04
D00006600	9.9	21.3	0.12	1.2	<0.3	9.2	0.2	0.06
D00006601	15.2	14.1	0.31	3.5	0.3	10.2	7.9	0.08
D00006602	207	15.5	0.74	1.7	<0.3	9.0	6.4	0.02
D00006603	37.2	18.8	0.33	1.0	<0.3	5.7	6.9	0.03
D00006604	39.1	17.0	0.71	1.1	<0.3	7.0	6.2	0.02
D00006605	28.0	41.5	0.43	2.1	0.3	6.5	7.5	0.08
D00006606	28.2	62.7	0.66	2.2	0.3	15.8	4.1	0.09
D00006607	27.0	47.4	0.43	2.1	0.5	12.6	3.1	0.05
D00006608	23.5	40.4	0.39	2.4	0.3	11.6	6.9	0.09
D00006609	22.4	78.6	0.38	4.9	0.5	8.3	16.4	0.27
D00006610	22.4	15.1	0.45	1.0	<0.3	5.3	1.2	0.04
D00006611	30.2	18.6	0.53	1.4	<0.3	6.3	8.7	0.05
D00006612	15.1	8.0	0.25	0.4	<0.3	5.7	0.4	0.01
D00006613	8.3	54.2	0.09	4.4	0.4	6.8	7.3	0.12
D00006614	16.2	10.8	0.31	0.7	<0.3	5.7	1.4	0.02
D00006615	24.6	26.4	0.45	1.7	0.3	7.9	14.5	0.08
D00006616	16.8	26.2	0.34	1.5	<0.3	6.8	14.1	0.09
D00006617	7.5	15.8	0.17	1.0	<0.3	5.5	2.9	0.03
D00006618	20.1	20.9	0.22	2.3	<0.3	7.1	24.0	0.05
D00006619	23.1	20.8	0.23	1.5	<0.3	7.7	18.8	0.04

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006366	15.1	11.5	0.40	0.9	<0.3	4.9	2.0	0.04
*Rep D00006547	19.5	52.7	0.16	4.7	<0.3	15.4	4.4	0.10
*Rep D00006601	14.9	14.8	0.26	3.8	0.3	11.1	8.4	0.08
*Std OREAS920	19.5	23.6	0.53	2.9	1.0	16.2	16.4	0.12
*Std OREAS151B	39.5	20.2	0.49	9.7	1.0	37.8	2.6	0.07
*Std OREAS902	9.5	8.6	0.76	2.8	<0.3	21.1	5.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006351	0.21	2.81	11	0.3	8.10	165
D00006352	0.42	1.64	30	0.2	11.4	146
D00006353	0.38	6.59	7	0.3	25.7	102
D00006354	0.33	4.64	10	0.4	21.2	113
D00006355	0.35	3.79	10	0.3	19.4	131
D00006356	0.37	2.54	36	0.2	19.7	252
D00006357	0.15	2.85	7	0.2	13.9	203
D00006358	0.21	1.85	18	<0.1	17.9	256
D00006359	0.24	1.76	20	0.3	9.57	247
D00006360	0.23	1.95	18	0.4	9.73	250
D00006361	0.33	1.97	42	0.2	13.6	227
D00006362	0.05	1.35	3	<0.1	3.35	16
D00006363	0.14	2.03	11	<0.1	7.12	59
D00006364	0.14	1.84	28	0.4	4.04	237
D00006365	0.22	11.9	9	0.2	32.8	213
D00006366	0.11	1.77	20	0.3	6.01	62
D00006367	0.14	1.85	13	0.4	11.4	36
D00006368	0.24	0.70	21	0.1	11.0	38
D00006369	0.13	0.86	16	0.3	10.3	44
D00006370	0.18	0.92	19	0.3	10.0	38
D00006371	0.23	1.47	47	0.3	7.41	65
D00006372	0.20	0.85	22	0.2	8.04	37
D00006373	0.20	0.76	22	0.2	7.34	26
D00006374	0.22	0.92	21	0.2	8.37	385
D00006375	0.22	0.98	21	0.2	12.5	29
D00006376	0.17	0.58	31	0.3	6.13	35
D00006377	0.44	0.57	75	0.2	7.17	73
D00006378	0.30	1.08	33	0.2	11.7	47
D00006379	0.19	2.60	23	0.1	18.1	103
D00006380	<0.02	0.07	<1	<0.1	0.52	<1
D00006381	0.22	4.61	18	0.1	36.3	38
D00006382	0.17	0.73	15	0.2	7.15	24
D00006383	0.14	0.71	38	0.3	3.20	41
D00006384	0.27	0.95	30	0.1	6.93	53
D00006385	0.31	0.91	33	0.1	7.81	82
D00006386	0.10	0.85	45	0.2	8.05	149
D00006387	0.15	1.41	51	0.2	15.9	182
D00006388	0.09	1.20	39	0.1	7.04	152
D00006389	0.13	0.95	42	0.2	11.9	117
D00006390	0.14	0.60	25	0.2	3.05	33

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006391	0.20	0.61	40	0.3	4.28	56
D00006392	0.24	0.71	37	0.2	6.82	82
D00006393	0.11	0.77	11	<0.1	12.5	22
D00006394	0.14	0.94	41	0.2	20.9	114
D00006395	0.19	0.81	31	0.2	3.79	54
D00006396	0.22	2.86	42	0.1	17.9	336
D00006546	0.25	2.99	33	0.4	9.56	92
D00006547	0.38	1.99	26	<0.1	37.8	62
D00006548	0.32	2.41	21	<0.1	25.6	56
D00006549	0.31	1.74	11	<0.1	16.1	33
D00006550	0.28	2.15	9	<0.1	14.0	42
D00006551	0.24	1.01	12	<0.1	8.76	33
D00006552	0.29	3.11	12	<0.1	14.3	36
D00006553	0.30	2.22	16	<0.1	8.27	97
D00006598	0.11	2.92	26	0.1	9.48	80
D00006599	0.15	0.79	26	0.2	3.51	50
D00006600	0.17	0.91	38	0.2	4.23	76
D00006601	0.15	0.92	39	0.2	9.78	96
D00006602	0.32	3.81	10	0.2	18.1	858
D00006603	0.25	4.23	15	0.2	16.8	445
D00006604	0.25	4.50	15	0.3	22.1	109
D00006605	0.37	2.53	31	0.2	15.4	169
D00006606	0.57	3.15	41	0.2	13.9	134
D00006607	0.46	3.03	36	0.1	17.8	125
D00006608	0.35	3.03	46	0.2	21.7	216
D00006609	0.53	2.00	70	0.1	15.3	170
D00006610	0.19	2.80	17	0.1	11.8	190
D00006611	0.23	1.60	17	0.3	11.3	198
D00006612	0.09	2.75	7	<0.1	10.3	60
D00006613	0.41	2.45	61	<0.1	19.2	104
D00006614	0.16	2.46	13	0.1	9.23	139
D00006615	0.25	2.89	19	0.2	15.6	860
D00006616	0.23	2.24	16	0.3	15.7	303
D00006617	0.13	1.69	13	0.1	11.0	23
D00006618	0.22	2.51	17	0.1	23.7	44
D00006619	0.23	1.25	17	0.3	10.9	37

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Final : VC172790 Order: PO# BMC17-01015

Report File No.: 0000025204

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006366	0.11	1.71	20	0.3	6.05	64
*Rep D00006547	0.38	2.01	26	<0.1	38.4	63
*Rep D00006601	0.15	0.99	37	0.3	10.4	97
*Std OREAS920	0.16	2.21	24	0.5	17.5	109
*Std OREAS151B	0.14	0.67	145	0.6	11.4	250
*Std OREAS902	0.23	2.37	7	2.1	7.74	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172791
[Report File No.: 0000024650]

Date: September 14, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01015
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006620	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00006846	0.190	<5	0.20	1.00	5	98	0.23	0.09
D00006847	0.190	<5	0.23	0.86	3	125	0.14	0.14
D00006848	0.390	<5	0.14	0.88	6	111	0.23	0.36
D00006849	0.550	<5	0.04	1.38	8	147	0.25	0.37
D00006850	0.425	<5	0.34	1.28	13	80	0.26	0.31
D00006851	0.395	<5	0.27	1.77	30	78	0.24	0.46
D00006852	0.380	<5	0.16	1.42	30	147	0.22	0.51
D00006853	0.195	<5	0.39	1.47	16	182	0.24	1.09
D00006854	0.455	<5	0.45	1.05	16	94	0.34	0.35
D00006855	0.405	<5	0.14	1.83	22	135	0.26	0.37
D00006856	0.300	<5	0.10	0.92	8	67	0.15	0.58
D00006857	0.380	<5	0.26	1.80	9	104	0.19	0.49
D00006858	0.375	<5	0.28	1.98	8	80	0.18	0.41
D00006859	0.135	<5	0.57	1.00	14	52	0.21	1.34
D00006860	0.225	<5	0.74	1.65	28	70	0.45	0.93
D00006861	0.195	<5	0.07	0.64	2	27	0.05	0.16
D00006862	0.505	<5	0.26	2.23	29	101	0.20	0.37
D00006863	0.250	<5	0.15	2.02	11	126	1.74	0.38
D00006864	0.455	<5	0.08	1.01	6	93	1.06	0.24
D00006865	0.230	<5	0.14	2.45	4	166	1.45	0.17
D00006866	0.495	<5	0.09	3.79	5	322	1.48	0.58
D00006867	0.445	<5	0.10	2.52	2	254	0.81	0.62
D00006868	0.435	<5	0.06	1.85	5	113	0.65	0.59
D00006869	0.385	<5	0.13	2.63	10	222	2.70	0.38
D00006870	0.225	8	0.21	2.90	10	185	1.95	0.68
D00006871	0.485	<5	0.18	3.24	5	251	1.32	0.47
D00006872	0.365	<5	0.12	2.55	15	231	2.25	0.36
D00006873	0.410	<5	0.10	1.89	9	131	1.04	0.17
D00006874	0.460	<5	0.08	1.31	10	89	1.15	0.09
D00006875	0.245	<5	0.12	3.42	6	422	0.56	0.87
D00006931	0.230	<5	0.11	1.38	16	229	0.12	1.08
D00006932	0.415	<5	0.09	1.77	14	289	0.14	0.50
D00006933	0.530	18	0.11	1.97	13	320	0.16	0.53
D00006934	0.255	<5	0.15	1.00	4	115	0.09	0.83
D00006935	0.320	<5	0.19	0.93	7	119	0.13	0.54
D00006936	0.470	<5	0.17	1.94	19	153	0.27	0.25
D00006937	0.290	<5	0.46	1.90	8	162	0.28	0.51
D00006938	0.170	<5	0.54	1.38	7	55	0.07	0.27
D00006939	0.375	<5	0.20	1.45	5	203	0.22	0.22

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006940	0.295	<5	0.01	0.69	3	42	0.13	0.05
D00006941	0.350	<5	0.43	1.22	9	306	0.19	0.59
D00006942	0.325	<5	0.19	1.10	6	128	0.19	0.45
D00006943	0.335	<5	0.04	1.66	7	70	0.30	0.13
D00006944	0.195	5	0.85	1.39	4	146	0.11	1.93
D00006945	0.305	<5	0.32	1.13	3	43	0.16	0.14
D00007101	0.310	5	0.91	0.99	15	81	0.82	0.08
D00007102	0.465	<5	0.30	0.79	17	127	0.60	0.06
D00007103	0.465	<5	0.31	0.68	42	115	0.52	0.08
D00007104	0.685	<5	0.63	0.42	79	213	0.26	0.05
D00007105	0.625	9	0.45	0.90	32	325	0.32	0.08
D00007106	0.620	19	1.09	0.80	108	401	0.56	0.08
D00007107	0.370	11	2.48	1.04	95	513	0.68	0.11
D00007108	0.580	7	1.04	0.77	65	405	0.25	0.08
D00007109	0.585	<5	1.04	0.61	93	484	0.26	0.06
D00007110	0.565	5	0.47	0.65	36	172	0.42	0.05
D00007111	0.310	<5	0.74	0.75	49	419	0.35	0.16
D00007112	0.285	<5	0.37	1.14	27	202	0.19	0.10
D00007113	0.550	<5	0.36	0.79	22	168	0.40	0.08
D00007114	0.655	<5	0.50	1.23	14	189	0.45	0.10
D00007115	0.405	<5	0.22	0.86	12	88	0.30	0.11
D00007116	0.715	<5	0.20	1.36	15	204	0.40	0.18
D00007117	0.540	<5	0.23	0.86	15	70	0.38	0.14
D00007118	0.215	<5	0.24	0.80	2	116	0.18	0.09
D00007119	0.535	<5	0.12	0.84	12	144	0.33	0.15
D00007120	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00007121	0.295	<5	0.05	0.79	6	79	0.20	0.12
D00007122	0.530	<5	0.05	1.06	7	89	0.23	0.21
D00007123	0.445	<5	0.11	1.09	3	116	0.23	0.24
D00007124	0.510	<5	0.04	1.37	6	139	0.23	0.32
D00007125	0.230	<5	0.05	1.52	6	224	0.34	0.33
D00007126	0.185	<5	0.06	0.51	<1	63	0.06	0.19
D00007127	0.650	<5	0.01	1.45	<1	112	0.23	0.24
D00007128	0.415	<5	0.04	1.53	4	159	0.26	0.28
D00007129	0.195	<5	0.10	0.47	<1	64	0.07	0.09
D00007130	0.250	<5	0.04	0.95	2	121	0.25	0.38
*Std OREAS151B		69						
*Std OXK119		3640						
*Std AMIS0282		196						
*Blk BLANK		<5						

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Final : VC172791 Order: PO# BMC17-01015

Report File No.: 0000024650

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00006933		0.11	2.05	12	321	0.16	0.53
*Rep D00007116		0.21	1.40	15	209	0.38	0.18
*Std OREAS920		0.11	2.60	4	78	0.67	0.35
*Std OREAS151B		0.55	2.47	33	69	0.40	1.40
*Std OREAS902		0.28	0.51	608	15	8.45	4.10
*Std OREAS920		0.09	2.50	6	75	0.76	0.33
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00006849	<5						
*Rep D00007104	<5						
*Rep D00007127	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006620	<0.01	1.01	<0.1	<1	0.6	0.02	<0.1	<0.01
D00006846	0.20	33.4	4.2	12	15.1	1.84	4.6	0.01
D00006847	0.08	34.6	3.0	10	13.8	1.33	2.9	0.02
D00006848	0.10	37.8	5.6	21	11.6	1.94	5.6	0.01
D00006849	0.17	70.7	9.0	28	18.5	2.83	4.9	<0.01
D00006850	0.50	102	14.3	24	28.2	3.57	4.7	0.03
D00006851	0.59	64.7	19.0	50	43.8	3.90	5.2	0.03
D00006852	0.57	106	14.5	16	12.8	3.43	4.7	0.03
D00006853	1.59	76.4	9.1	14	22.1	2.80	4.8	0.05
D00006854	1.45	65.7	25.1	21	80.9	5.42	4.4	0.03
D00006855	0.17	55.6	14.5	59	30.8	4.41	5.7	<0.01
D00006856	0.40	29.8	6.8	19	25.9	2.15	3.3	0.01
D00006857	0.66	58.3	10.8	44	28.6	4.05	5.9	0.02
D00006858	0.22	73.6	12.1	55	37.6	4.22	6.2	0.02
D00006859	1.50	41.6	6.5	15	65.1	1.65	2.7	0.05
D00006860	1.65	72.8	13.8	31	62.5	3.50	5.1	0.05
D00006861	0.06	25.1	1.2	2	12.8	0.35	1.8	<0.01
D00006862	0.46	61.8	18.0	44	53.1	4.79	6.8	0.02
D00006863	0.47	122	14.4	40	107	4.96	6.4	0.03
D00006864	0.50	125	11.3	10	64.9	3.90	4.3	<0.01
D00006865	0.22	185	12.5	15	166	6.52	9.4	0.03
D00006866	0.18	121	22.8	68	88.6	7.01	12.3	<0.01
D00006867	0.28	76.4	15.2	34	45.3	5.42	9.7	<0.01
D00006868	0.44	88.6	12.8	23	36.4	4.35	7.1	<0.01
D00006869	0.34	150	14.3	34	29.2	5.10	9.7	0.03
D00006870	1.11	93.1	18.3	33	125	6.39	10.1	0.04
D00006871	0.45	75.5	19.5	61	60.7	6.28	10.1	0.03
D00006872	0.23	124	14.8	39	223	5.82	9.2	0.03
D00006873	0.23	72.5	11.5	29	33.4	4.00	6.4	0.03
D00006874	0.30	49.8	6.3	16	82.7	2.76	4.0	0.01
D00006875	0.57	58.6	23.6	59	35.7	7.05	12.6	0.03
D00006931	0.16	25.2	11.3	23	31.9	2.51	4.4	0.03
D00006932	0.15	35.0	12.2	44	24.9	3.20	5.7	0.01
D00006933	0.15	47.6	11.7	47	19.3	4.02	7.2	<0.01
D00006934	0.26	38.7	3.5	9	10.8	1.10	2.9	0.03
D00006935	0.27	46.0	6.9	12	11.2	2.12	3.2	0.02
D00006936	0.40	81.0	12.0	33	21.6	3.23	5.8	0.01
D00006937	0.36	115	13.4	24	22.5	3.34	5.6	0.02
D00006938	1.15	112	1.7	6	16.7	0.87	3.5	0.05
D00006939	0.21	60.8	6.1	19	7.5	2.13	5.3	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006940	0.08	24.8	1.7	10	2.3	0.95	4.3	<0.01
D00006941	0.94	71.5	7.6	13	11.8	4.19	3.4	0.04
D00006942	0.24	45.0	5.8	21	12.2	2.00	3.5	0.01
D00006943	0.20	33.4	7.0	29	8.9	3.73	9.9	0.02
D00006944	0.32	172	4.3	11	40.0	1.32	4.5	0.06
D00006945	0.07	21.6	4.3	19	6.9	2.08	5.1	0.02
D00007101	0.25	40.0	3.7	19	15.4	2.25	4.0	0.13
D00007102	0.40	57.3	4.2	10	33.9	1.91	3.1	0.06
D00007103	0.51	45.1	3.9	11	27.4	1.81	2.5	0.09
D00007104	0.91	32.2	1.7	2	28.5	1.41	0.9	0.22
D00007105	0.45	35.1	5.8	22	20.3	2.35	2.8	0.09
D00007106	0.83	43.4	4.7	24	56.9	3.02	2.9	0.38
D00007107	0.74	43.0	6.4	25	51.1	2.86	3.3	0.70
D00007108	0.51	38.9	6.1	19	31.0	2.21	2.4	0.31
D00007109	0.62	49.6	4.8	15	32.1	2.16	2.2	0.27
D00007110	1.01	106	7.7	13	40.9	2.36	2.2	0.09
D00007111	1.94	61.0	10.7	18	35.1	2.05	2.4	0.18
D00007112	0.66	23.8	13.9	54	34.3	2.34	2.5	0.08
D00007113	0.41	43.4	6.7	19	21.2	2.02	2.4	0.04
D00007114	0.30	59.9	6.4	31	17.9	2.19	3.8	0.07
D00007115	0.20	43.8	4.5	20	10.8	1.75	2.9	0.02
D00007116	0.49	55.3	8.8	29	19.6	2.51	4.2	0.03
D00007117	5.04	58.0	7.2	17	14.3	1.80	2.7	0.03
D00007118	1.08	33.9	1.8	12	9.4	1.06	2.5	0.03
D00007119	0.29	63.4	7.7	18	21.3	2.30	2.7	0.02
D00007120	<0.01	1.17	0.1	<1	0.6	0.02	<0.1	<0.01
D00007121	0.26	49.7	4.2	23	7.1	1.52	3.5	0.02
D00007122	0.21	39.4	7.4	30	12.1	2.02	3.7	<0.01
D00007123	0.18	72.6	7.1	23	11.5	2.18	4.2	<0.01
D00007124	0.18	61.0	9.0	40	16.1	2.40	4.7	<0.01
D00007125	0.16	33.6	7.8	43	11.1	2.77	6.4	<0.01
D00007126	0.04	9.38	2.4	8	4.7	0.67	1.8	<0.01
D00007127	0.09	125	6.1	19	9.9	2.41	5.4	<0.01
D00007128	0.10	37.2	7.6	34	10.2	2.76	6.7	<0.01
D00007129	0.09	15.1	2.9	3	3.5	0.54	2.2	0.02
D00007130	0.18	27.0	9.2	19	8.3	1.79	5.1	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006933	0.16	45.3	11.7	49	19.2	4.08	7.2	<0.01
*Rep D00007116	0.51	55.5	9.0	29	20.3	2.42	4.2	0.02
*Std OREAS920	0.07	73.3	14.2	47	98.6	3.78	7.2	<0.01
*Std OREAS151B	0.61	16.9	10.6	28	1770	3.44	7.1	0.02
*Std OREAS902	0.02	31.1	988	27	2870	2.97	1.4	0.06
*Std OREAS920	0.06	73.5	14.0	47	103	3.94	6.6	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006620	<0.01	0.5	<0.01	<2	<0.05	0.01	<0.5	<50
D00006846	0.13	17.4	0.25	120	2.02	0.02	9.5	520
D00006847	0.10	20.7	0.13	113	0.73	0.03	9.3	550
D00006848	0.21	18.8	0.37	252	1.07	0.01	13.3	560
D00006849	0.30	37.4	0.62	429	1.19	0.01	17.7	890
D00006850	0.23	52.0	0.64	638	1.28	0.01	33.9	1300
D00006851	0.16	31.2	1.06	694	1.11	0.01	43.5	1070
D00006852	0.46	55.5	0.60	780	1.78	0.01	12.7	1370
D00006853	0.35	57.7	0.48	436	1.38	0.02	13.4	1290
D00006854	0.06	40.3	0.61	1110	1.74	0.01	49.5	1370
D00006855	0.09	25.2	0.90	483	1.62	0.01	45.9	1090
D00006856	0.06	19.8	0.44	260	0.84	0.03	16.5	780
D00006857	0.10	28.6	1.08	280	1.57	0.01	30.2	1270
D00006858	0.10	37.6	1.24	419	1.65	<0.01	33.8	1210
D00006859	0.05	82.5	0.43	395	0.70	0.03	21.5	1080
D00006860	0.06	103	0.89	682	1.31	0.01	35.6	1330
D00006861	0.03	32.1	0.04	86	0.24	0.05	1.8	360
D00006862	0.06	39.6	1.28	723	1.88	0.01	42.1	1360
D00006863	0.78	66.3	1.21	1310	5.99	0.01	27.2	750
D00006864	0.45	56.3	0.57	858	2.50	0.01	8.0	820
D00006865	1.03	97.9	1.16	754	8.01	0.02	7.2	800
D00006866	2.06	59.2	2.72	1120	6.30	0.02	25.2	1140
D00006867	1.28	32.3	1.69	724	2.81	0.02	17.6	1670
D00006868	0.87	42.6	1.22	575	2.34	0.02	13.4	1150
D00006869	1.10	58.8	1.63	1020	2.38	0.02	16.0	890
D00006870	1.20	50.2	1.88	1720	4.62	0.01	23.2	950
D00006871	1.49	43.7	1.88	1180	3.46	0.02	29.7	1100
D00006872	1.23	58.5	1.57	914	4.84	0.02	17.7	1540
D00006873	0.80	39.1	1.04	736	4.55	0.02	13.6	900
D00006874	0.35	23.8	0.54	281	2.14	0.01	12.9	560
D00006875	1.83	34.1	2.30	1300	1.75	0.02	25.7	1720
D00006931	0.05	10.8	0.66	682	1.09	0.02	22.8	1120
D00006932	0.08	15.2	0.96	313	0.92	0.02	24.6	1030
D00006933	0.17	22.4	1.21	384	1.00	0.01	24.4	980
D00006934	0.06	31.3	0.19	265	0.58	0.03	7.7	1210
D00006935	0.13	28.4	0.34	338	1.27	0.02	14.0	1090
D00006936	0.14	39.0	0.64	516	1.40	0.02	29.3	900
D00006937	0.26	58.4	0.59	859	1.77	0.02	18.9	1010
D00006938	0.02	60.0	0.06	240	2.06	0.03	5.1	1010
D00006939	0.07	40.1	0.44	198	1.14	0.01	9.9	730

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006940	0.08	12.4	0.23	50	0.71	0.01	3.9	190
D00006941	0.25	34.5	0.24	4440	7.13	0.01	18.4	1500
D00006942	0.08	25.5	0.54	172	0.90	0.01	14.6	870
D00006943	0.29	16.4	0.59	365	1.15	0.01	13.6	730
D00006944	0.04	218	0.14	461	0.77	0.03	12.8	1800
D00006945	0.19	10.7	0.39	146	0.90	0.02	7.6	820
D00007101	0.09	21.0	0.23	139	2.72	0.01	12.4	800
D00007102	0.06	28.7	0.14	153	3.16	0.01	9.8	820
D00007103	0.06	22.8	0.15	107	3.26	0.01	11.3	700
D00007104	0.07	16.2	0.03	27	2.72	0.04	13.7	530
D00007105	0.06	18.2	0.28	149	5.43	0.01	22.0	820
D00007106	0.06	23.1	0.16	147	7.83	0.01	19.4	1330
D00007107	0.08	23.3	0.26	184	10.6	0.01	19.7	1530
D00007108	0.08	21.2	0.25	152	4.53	0.01	17.6	1000
D00007109	0.09	27.6	0.14	112	5.96	0.01	16.0	1160
D00007110	0.06	47.2	0.15	172	6.48	0.01	29.7	750
D00007111	0.06	34.6	0.17	496	4.06	0.01	21.7	830
D00007112	0.14	11.9	0.66	334	1.91	0.01	32.4	630
D00007113	0.12	20.7	0.30	247	3.07	0.01	16.1	450
D00007114	0.14	28.6	0.39	159	3.20	0.01	17.6	750
D00007115	0.09	22.2	0.29	121	2.45	0.01	13.2	570
D00007116	0.12	27.0	0.48	412	2.18	0.01	25.3	860
D00007117	0.11	27.1	0.26	1340	1.77	0.01	19.7	650
D00007118	0.07	18.8	0.09	128	1.17	0.02	6.6	1290
D00007119	0.18	32.0	0.22	161	2.13	0.01	23.3	700
D00007120	<0.01	0.6	<0.01	<2	0.06	0.01	<0.5	<50
D00007121	0.15	24.7	0.26	104	1.34	0.01	11.7	690
D00007122	0.18	19.3	0.48	226	1.26	0.01	18.1	860
D00007123	0.18	37.2	0.32	416	1.44	0.02	14.9	1240
D00007124	0.22	31.0	0.63	367	1.15	0.02	23.1	1130
D00007125	0.23	19.1	0.62	459	1.73	0.02	17.8	1030
D00007126	0.04	4.9	0.07	238	0.54	0.03	3.7	1390
D00007127	0.44	53.3	0.47	118	1.31	0.01	11.1	850
D00007128	0.18	17.4	0.59	477	1.38	0.01	15.0	1230
D00007129	0.03	6.7	0.04	761	0.97	0.03	2.3	1090
D00007130	0.08	11.3	0.32	984	2.51	0.02	10.0	810

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006933	0.17	21.1	1.20	390	0.98	0.01	24.4	960
*Rep D00007116	0.12	26.8	0.49	417	2.20	0.01	24.8	910
*Std OREAS920	0.44	37.0	1.19	550	0.40	0.03	40.1	800
*Std OREAS151B	0.43	7.5	1.53	291	56.7	0.17	14.6	560
*Std OREAS902	0.25	14.7	2.34	481	11.6	0.02	158	730
*Std OREAS920	0.44	36.0	1.17	565	0.39	0.03	38.5	790
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006620	0.4	<0.2	<0.05	<0.1	<0.3	0.6	<0.1	<0.01
D00006846	15.1	19.1	0.20	0.9	0.5	12.6	0.3	0.04
D00006847	8.4	10.5	0.16	0.8	<0.3	10.0	<0.1	0.03
D00006848	12.4	27.5	0.12	1.5	0.9	17.3	0.4	0.07
D00006849	19.4	35.7	0.17	4.4	0.4	13.3	11.6	0.10
D00006850	49.3	27.4	0.27	4.1	0.3	13.3	13.4	0.07
D00006851	42.5	19.4	0.21	6.2	<0.3	19.5	10.9	0.05
D00006852	81.7	58.0	0.15	4.6	<0.3	18.2	12.4	0.14
D00006853	59.2	41.9	0.17	2.5	<0.3	38.9	4.0	0.06
D00006854	87.8	5.9	0.26	5.5	<0.3	17.5	9.4	0.01
D00006855	33.7	12.0	0.28	4.1	<0.3	17.7	6.6	0.04
D00006856	10.2	6.5	0.15	1.7	<0.3	28.2	2.1	0.04
D00006857	26.2	12.1	0.22	5.4	<0.3	22.8	6.7	0.05
D00006858	20.3	12.0	0.22	6.2	<0.3	19.9	7.9	0.04
D00006859	45.2	4.6	0.33	1.3	<0.3	48.2	1.8	0.02
D00006860	93.8	7.6	0.46	3.1	<0.3	36.2	5.4	0.02
D00006861	4.6	1.5	<0.05	0.5	<0.3	10.3	0.4	0.01
D00006862	41.3	7.0	0.37	5.9	<0.3	17.5	7.7	0.04
D00006863	46.1	93.2	0.10	5.8	1.1	29.9	22.9	0.18
D00006864	21.1	51.0	0.06	4.1	0.6	34.2	22.1	0.09
D00006865	51.7	92.7	0.07	4.0	1.2	27.6	28.7	0.17
D00006866	17.6	153	0.10	11.9	1.7	27.8	20.6	0.39
D00006867	27.9	93.0	0.15	9.9	1.1	28.3	14.9	0.28
D00006868	36.2	94.9	0.16	6.5	0.6	31.5	15.8	0.26
D00006869	30.5	118	0.14	8.6	0.9	20.6	18.5	0.31
D00006870	78.5	107	0.16	11.5	1.2	31.1	14.9	0.32
D00006871	37.2	154	0.20	14.0	1.5	33.6	16.0	0.46
D00006872	14.4	114	0.21	7.9	1.0	33.9	16.9	0.38
D00006873	17.7	78.7	0.21	4.5	0.9	26.1	14.4	0.20
D00006874	12.5	31.8	0.42	1.8	0.7	19.6	9.8	0.08
D00006875	25.0	113	0.09	10.3	0.6	25.1	7.6	0.37
D00006931	21.3	5.7	0.18	2.6	<0.3	47.8	2.1	0.03
D00006932	15.2	11.0	0.18	5.1	<0.3	21.8	2.6	0.05
D00006933	18.7	20.5	0.21	8.1	0.3	20.8	6.7	0.11
D00006934	8.3	6.6	0.11	1.0	<0.3	36.4	1.2	0.03
D00006935	26.9	15.8	0.15	1.8	<0.3	24.0	2.4	0.04
D00006936	61.3	18.3	0.52	3.9	0.5	14.1	8.8	0.08
D00006937	41.1	28.7	0.21	3.8	0.3	20.1	5.3	0.08
D00006938	7.2	1.1	0.11	0.9	<0.3	14.2	0.7	0.02
D00006939	23.7	11.7	0.10	2.0	0.4	11.1	1.8	0.04

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006940	5.8	11.2	0.06	0.5	0.3	3.8	0.2	0.03
D00006941	21.9	28.5	0.16	1.9	<0.3	21.4	3.5	0.05
D00006942	24.0	11.3	0.11	1.8	<0.3	20.0	1.4	0.03
D00006943	13.2	33.0	0.19	3.7	1.1	8.5	4.8	0.20
D00006944	10.6	5.7	0.12	2.3	<0.3	86.7	2.2	0.03
D00006945	18.3	28.6	0.13	1.7	0.5	6.7	0.5	0.11
D00007101	306	10.2	1.90	0.9	0.4	7.3	1.2	0.04
D00007102	139	5.9	1.60	0.9	<0.3	9.5	6.1	0.02
D00007103	126	5.7	1.74	1.0	<0.3	12.0	9.0	0.02
D00007104	101	5.3	2.90	0.5	<0.3	37.9	11.3	<0.01
D00007105	69.3	6.7	3.55	1.5	<0.3	13.9	2.8	0.04
D00007106	198	5.0	14.2	1.6	0.3	57.6	7.6	0.02
D00007107	276	8.0	11.0	1.7	0.4	27.5	3.3	0.04
D00007108	113	5.8	6.71	1.5	<0.3	31.2	3.1	0.03
D00007109	86.2	6.4	6.70	1.1	<0.3	39.8	2.6	0.02
D00007110	87.6	5.5	2.21	1.2	<0.3	13.3	17.8	0.02
D00007111	85.5	6.9	3.31	1.2	<0.3	17.7	4.5	0.02
D00007112	65.8	10.9	1.39	1.7	<0.3	7.9	4.1	0.08
D00007113	54.7	10.3	2.71	1.5	<0.3	7.7	13.8	0.04
D00007114	60.5	17.1	1.41	2.4	0.5	8.1	6.7	0.05
D00007115	38.1	10.5	1.08	1.7	0.3	7.9	7.9	0.05
D00007116	37.8	14.8	1.02	2.8	0.5	13.6	5.4	0.06
D00007117	1080	12.4	1.02	3.1	0.3	7.6	13.3	0.04
D00007118	73.2	10.3	0.30	0.5	<0.3	7.6	1.0	0.02
D00007119	17.0	15.4	0.33	2.4	<0.3	7.0	15.1	0.03
D00007120	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.4	<0.01
D00007121	13.4	14.8	0.20	1.5	0.3	6.6	4.1	0.05
D00007122	13.2	17.3	0.40	2.2	0.4	9.0	4.1	0.08
D00007123	14.3	18.2	0.24	1.4	0.4	10.6	1.4	0.05
D00007124	11.6	22.9	0.29	3.1	0.5	11.3	6.6	0.11
D00007125	10.6	26.0	0.23	1.9	0.9	11.9	1.0	0.10
D00007126	5.1	5.0	0.08	0.4	<0.3	10.2	0.2	0.02
D00007127	11.6	43.0	0.19	3.7	0.4	8.8	13.8	0.16
D00007128	10.0	27.6	0.22	2.5	0.9	12.4	1.8	0.11
D00007129	3.4	4.1	0.06	0.2	<0.3	7.6	0.2	0.01
D00007130	14.6	12.7	0.16	0.9	0.8	45.2	0.3	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006933	18.2	19.9	0.23	8.3	<0.3	21.2	6.6	0.11
*Rep D00007116	37.8	15.1	1.01	2.9	0.5	13.6	5.5	0.06
*Std OREAS920	22.2	24.8	0.60	3.1	1.1	18.2	16.4	0.14
*Std OREAS151B	38.6	20.1	0.55	9.7	1.0	38.2	2.5	0.08
*Std OREAS902	9.6	8.3	0.83	2.9	<0.3	21.3	4.8	<0.01
*Std OREAS920	18.5	23.6	0.58	2.9	1.0	17.1	16.4	0.12
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006620	<0.02	0.10	<1	<0.1	0.67	1
D00006846	0.16	0.81	31	0.2	3.95	60
D00006847	0.11	0.81	24	<0.1	11.8	37
D00006848	0.18	0.74	30	0.2	6.04	54
D00006849	0.29	1.14	34	0.1	13.9	101
D00006850	0.24	1.09	37	0.1	14.8	229
D00006851	0.19	0.81	42	0.1	12.1	298
D00006852	0.50	4.12	52	0.1	21.2	238
D00006853	0.35	6.39	34	<0.1	22.3	231
D00006854	0.08	1.06	43	<0.1	19.0	445
D00006855	0.12	0.87	41	<0.1	8.23	134
D00006856	0.05	0.77	31	<0.1	6.95	137
D00006857	0.12	1.21	55	<0.1	9.86	258
D00006858	0.11	1.54	60	<0.1	14.7	126
D00006859	0.08	2.82	17	<0.1	32.9	199
D00006860	0.09	2.41	32	0.1	39.7	360
D00006861	0.04	0.42	4	<0.1	7.99	8
D00006862	0.07	1.28	55	0.1	18.9	240
D00006863	0.72	5.99	40	0.1	21.4	246
D00006864	0.57	4.40	28	0.2	20.5	122
D00006865	0.59	8.78	34	0.1	32.6	154
D00006866	0.83	5.88	94	0.1	28.8	149
D00006867	0.60	3.93	87	0.1	17.2	142
D00006868	0.70	2.84	61	0.1	15.4	216
D00006869	0.93	4.39	72	0.2	18.4	139
D00006870	0.69	5.14	87	0.1	24.2	304
D00006871	1.04	5.54	120	0.1	12.3	205
D00006872	0.70	4.76	75	0.1	14.9	149
D00006873	0.57	5.31	43	0.1	8.21	108
D00006874	0.31	3.05	23	0.2	4.95	96
D00006875	0.64	1.40	150	<0.1	14.2	223
D00006931	0.07	0.60	34	0.6	5.20	70
D00006932	0.14	0.57	58	<0.1	5.58	86
D00006933	0.18	0.63	77	0.1	6.90	119
D00006934	0.07	1.58	15	<0.1	9.80	38
D00006935	0.19	1.39	23	<0.1	9.93	127
D00006936	0.21	0.96	43	0.3	10.3	189
D00006937	0.33	2.48	40	0.1	18.0	160
D00006938	0.12	3.97	11	<0.1	24.7	26
D00006939	0.14	1.34	28	0.1	10.3	159

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006940	0.11	0.37	18	<0.1	2.44	46
D00006941	0.24	2.92	16	<0.1	20.3	168
D00006942	0.10	1.27	24	<0.1	8.94	176
D00006943	0.22	0.66	65	0.4	4.57	77
D00006944	0.09	4.68	15	<0.1	66.5	27
D00006945	0.18	0.71	35	0.2	4.01	40
D00007101	0.14	1.86	31	0.4	4.89	81
D00007102	0.15	7.56	14	0.3	11.7	189
D00007103	0.14	4.86	13	0.3	9.48	170
D00007104	1.17	3.04	2	0.1	11.6	178
D00007105	0.27	1.63	32	0.4	6.12	134
D00007106	0.44	4.66	39	0.4	8.06	240
D00007107	0.59	2.92	45	0.5	10.1	153
D00007108	0.67	2.13	29	0.3	6.66	130
D00007109	0.98	2.32	24	0.3	8.23	140
D00007110	0.46	6.71	19	0.4	20.9	434
D00007111	0.39	3.43	21	0.2	14.4	394
D00007112	0.27	1.63	23	0.1	5.97	419
D00007113	0.20	1.77	18	0.3	6.23	187
D00007114	0.24	2.52	24	0.8	10.5	153
D00007115	0.14	1.39	22	0.3	5.84	91
D00007116	0.18	2.24	35	0.4	10.3	201
D00007117	0.13	3.69	19	0.3	18.3	1520
D00007118	0.10	2.85	11	0.1	8.49	160
D00007119	0.18	3.07	18	0.3	19.1	63
D00007120	<0.02	0.07	<1	<0.1	0.59	1
D00007121	0.19	0.98	25	0.2	5.91	56
D00007122	0.15	1.21	31	0.2	7.84	77
D00007123	0.17	1.72	27	0.2	11.4	74
D00007124	0.18	1.63	37	0.3	11.2	66
D00007125	0.22	1.36	58	0.3	8.70	56
D00007126	0.07	0.85	15	<0.1	2.36	10
D00007127	0.33	2.18	34	0.1	13.3	63
D00007128	0.19	1.15	46	0.8	7.40	58
D00007129	0.08	0.73	8	<0.1	2.68	9
D00007130	0.09	0.99	33	0.2	4.02	42

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Final : VC172791 Order: PO# BMC17-01015

Report File No.: 0000024650

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006933	0.18	0.64	76	0.1	6.68	123
*Rep D00007116	0.18	2.24	37	0.4	10.5	201
*Std OREAS920	0.17	2.42	24	0.6	18.5	113
*Std OREAS151B	0.14	0.66	145	0.6	10.6	237
*Std OREAS902	0.24	2.34	8	2.3	7.39	7
*Std OREAS920	0.17	2.30	25	0.7	16.8	117
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172792
[Report File No.: 0000025205]

Date: October 11, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01015
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
75	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007131	0.280	<5	0.06	1.12	5	170	0.33	0.26
D00007132	0.165	<5	0.02	0.43	<1	24	0.03	0.17
D00007133	0.150	<5	0.09	1.00	3	164	0.20	0.41
D00007134	0.135	<5	0.12	1.20	3	145	0.27	0.18
D00007135	0.415	<5	0.31	1.22	5	292	0.24	0.82
D00007136	0.215	<5	0.63	0.88	2	50	0.16	0.19
D00007137	0.190	<5	1.02	1.00	7	142	0.22	0.19
D00007138	0.100	6	0.36	0.55	3	86	0.19	0.10
D00007139	0.445	<5	0.26	1.59	18	139	0.24	0.21
D00007140	0.275	<5	0.35	1.37	18	127	0.23	0.16
D00007141	0.280	<5	0.06	1.79	13	93	0.20	0.23
D00007142	0.390	<5	1.11	1.32	19	169	0.29	1.06
D00007143	0.410	13	0.33	1.37	12	154	0.55	0.31
D00007144	0.400	<5	0.56	0.36	12	178	0.52	0.01
D00007145	0.685	<5	0.38	0.48	15	230	0.68	0.02
D00007146	0.425	<5	0.21	0.41	17	152	0.27	0.02
D00007147	0.585	<5	0.64	0.40	24	142	0.28	0.02
D00007148	0.475	<5	0.75	0.48	34	98	0.44	0.04
D00007149	0.260	<5	0.32	0.30	19	82	0.33	0.05
D00007150	0.550	<5	0.54	0.43	39	184	0.54	0.01
D00007151	0.395	<5	1.00	0.46	39	175	0.63	0.03
D00007152	0.365	<5	0.36	0.66	26	275	0.33	0.07
D00007153	0.565	6	0.14	0.98	15	102	0.28	0.07
D00007154	0.500	<5	0.16	0.91	15	93	0.35	0.07
D00007155	0.440	<5	0.21	0.80	15	107	0.24	0.09
D00007156	0.595	<5	0.18	1.31	22	165	0.27	0.13
D00007157	0.435	I.S.	0.12	0.64	11	63	0.54	0.05
D00007158	0.310	<5	0.43	0.44	6	143	0.33	0.06
D00007159	0.640	<5	0.10	0.96	11	96	0.30	0.10
D00007160	0.545	<5	0.15	0.82	9	112	0.32	0.14
D00007161	0.600	<5	0.02	0.84	17	46	0.29	0.11
D00007162	0.420	<5	0.03	1.15	11	63	0.25	0.17
D00007163	0.585	<5	0.04	1.27	8	134	0.16	0.27
D00007164	0.625	<5	0.14	0.35	3	156	0.12	0.88
D00007165	0.515	<5	0.04	1.03	4	90	0.23	0.24
D00007166	0.595	<5	0.08	0.76	3	152	0.21	0.29
D00007167	0.595	5	0.09	0.78	3	146	0.22	0.25
D00007168	0.505	<5	0.16	0.89	5	137	0.27	0.39
D00007169	0.630	<5	0.13	0.84	4	88	0.23	0.34
D00007170	0.535	6	0.02	0.96	2	76	0.09	0.35

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007171	0.505	<5	0.06	0.98	8	138	0.19	0.32
D00007172	0.475	<5	0.04	1.08	10	71	0.19	0.15
D00007173	0.455	<5	0.05	1.06	7	99	0.17	0.19
D00007174	0.505	<5	0.13	2.29	18	184	0.22	0.33
D00007175	0.375	<5	0.93	0.63	9	45	0.16	0.02
D00007176	0.440	11	0.11	0.48	3	63	0.20	0.03
D00007177	0.280	<5	0.10	0.98	8	152	0.23	0.12
D00007178	0.235	<5	0.10	0.27	1	62	0.06	0.05
D00007179	0.395	<5	0.02	0.19	<1	36	0.11	0.01
D00007180	0.110	<5	<0.01	<0.01	<1	<5	<0.02	<0.01
D00007181	0.310	<5	0.56	2.76	16	278	0.22	0.35
D00007182	0.395	<5	0.06	0.94	5	59	0.20	0.07
D00007183	0.460	<5	0.16	0.85	6	74	0.30	0.06
D00007184	0.115	<5	0.22	0.36	2	30	0.14	0.03
D00007185	0.410	<5	0.24	1.19	4	80	0.25	0.23
D00007186	0.705	<5	0.14	1.39	8	118	0.32	0.54
D00007187	0.290	7	0.16	1.55	6	145	0.37	0.48
D00007188	0.155	<5	0.22	0.42	1	98	0.04	0.29
D00007189	0.520	<5	0.05	1.36	7	142	0.43	0.24
D00007190	0.420	<5	0.13	1.85	18	170	0.37	0.39
D00007191	0.470	<5	0.14	2.00	10	150	0.27	0.35
D00007192	0.340	<5	0.14	1.53	4	166	0.25	0.46
D00007193	0.335	<5	0.04	1.12	5	175	0.21	0.38
D00007194	0.485	<5	0.05	1.21	8	100	0.28	0.16
D00007195	0.415	<5	0.21	1.40	10	165	0.44	0.38
D00007196	0.620	<5	0.05	1.63	10	97	0.29	0.24
D00007197	0.355	<5	0.25	1.96	8	158	0.22	0.68
D00007198	0.655	<5	0.13	1.68	7	182	0.21	0.53
D00007199	0.540	9	0.11	1.85	8	106	0.20	0.26
D00007200	0.275	<5	0.36	0.54	1	97	0.07	0.62
D00007201	0.200	5	0.40	1.05	6	132	0.22	0.67
D00007202	0.605	<5	0.15	1.22	5	153	0.84	0.50
D00007203	0.430	<5	0.12	1.08	4	75	0.26	0.06
D00007204	0.480	6	0.35	1.82	11	208	0.28	0.30
D00007205	0.395	<5	0.13	1.98	33	83	0.26	0.19
D00007206	0.365	<5	0.15	1.33	4	217	0.26	0.04
*Std OREAS151B		67						
*Std OXK119		3590						
*Std AMIS0474		175						
*Blk BLANK		<5						

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Final : VC172792 Order: PO# BMC17-01015

Report File No.: 0000025205

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00007134		0.12	1.25	3	145	0.26	0.20
*Rep D00007165		0.03	1.07	5	92	0.23	0.24
*Rep D00007187		0.13	1.39	7	138	0.34	0.44
*Std OREAS920		0.10	2.39	5	71	0.67	0.33
*Std OREAS151B		0.54	2.45	33	71	0.38	1.41
*Std OREAS902		0.32	0.54	623	15	8.76	4.44
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007131	0.20	28.2	5.6	17	8.5	2.64	6.7	0.01
D00007132	0.10	6.25	1.0	2	3.7	0.44	1.6	<0.01
D00007133	0.29	50.5	5.9	16	10.4	2.22	3.7	0.02
D00007134	0.20	82.3	8.6	17	13.3	2.98	4.9	0.01
D00007135	0.21	41.9	4.2	21	15.2	2.15	5.2	0.03
D00007136	0.02	86.2	2.6	12	7.7	1.30	3.8	0.04
D00007137	0.34	73.0	5.0	28	15.6	1.77	5.2	0.06
D00007138	0.13	28.6	2.5	14	6.8	1.01	5.2	0.08
D00007139	0.23	58.0	11.9	26	19.3	4.20	6.1	0.01
D00007140	0.39	52.5	10.7	25	19.2	3.56	5.6	0.03
D00007141	0.09	51.1	13.9	33	15.9	4.12	6.5	<0.01
D00007142	3.02	99.8	15.8	26	51.9	4.31	4.4	0.08
D00007143	0.23	70.2	12.9	21	22.1	5.24	5.2	0.04
D00007144	0.52	116	8.4	2	17.2	0.98	1.6	0.06
D00007145	0.94	145	9.3	2	13.5	1.13	2.0	0.05
D00007146	0.45	44.7	5.9	6	13.7	1.56	2.1	0.07
D00007147	0.67	45.9	6.0	5	13.7	1.39	1.5	0.08
D00007148	0.70	98.3	10.2	6	16.8	1.37	2.0	0.09
D00007149	0.56	62.7	5.3	4	10.6	0.96	1.5	0.05
D00007150	0.81	85.7	6.4	4	18.3	1.98	2.0	0.18
D00007151	0.61	55.8	2.8	8	16.4	1.51	2.0	0.20
D00007152	0.93	53.8	5.3	19	16.0	1.86	2.6	0.04
D00007153	0.65	60.7	8.0	16	19.6	1.94	3.3	0.04
D00007154	0.69	71.8	10.5	16	18.9	1.96	3.0	0.02
D00007155	0.56	48.2	7.4	24	25.2	1.98	2.3	0.02
D00007156	0.62	48.2	10.3	50	25.1	2.61	3.3	0.06
D00007157	0.54	40.1	6.6	13	14.4	1.66	3.1	0.04
D00007158	0.88	24.2	3.6	10	10.3	1.45	2.2	0.10
D00007159	0.39	48.6	6.3	21	13.1	2.08	3.2	0.02
D00007160	0.13	60.3	4.8	19	10.4	1.58	3.3	0.02
D00007161	0.04	110	2.7	13	8.8	1.55	3.0	<0.01
D00007162	0.08	90.7	9.4	28	17.0	2.26	3.6	0.01
D00007163	0.10	125	5.0	17	11.3	2.73	4.8	0.02
D00007164	0.13	33.1	25.6	4	19.2	5.99	1.6	0.01
D00007165	0.09	73.5	5.3	23	11.5	1.78	3.8	0.01
D00007166	0.10	75.8	8.7	12	11.8	2.51	2.7	<0.01
D00007167	0.10	66.5	4.7	11	11.7	2.40	2.8	<0.01
D00007168	0.17	149	12.9	19	16.6	3.13	3.6	<0.01
D00007169	0.05	32.5	5.1	11	10.1	2.46	2.6	0.03
D00007170	0.04	24.2	3.7	16	5.8	1.39	3.2	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007171	0.22	54.3	12.8	29	22.7	2.94	3.2	<0.01
D00007172	0.09	58.6	6.3	22	11.1	2.29	3.7	0.01
D00007173	0.13	104	7.0	17	10.9	2.51	4.5	<0.01
D00007174	0.16	88.2	17.8	55	27.5	4.91	6.7	0.02
D00007175	0.08	41.8	6.1	9	8.5	1.95	3.7	0.03
D00007176	0.07	54.0	2.9	6	6.5	1.14	2.9	0.03
D00007177	0.38	88.3	5.3	17	8.2	2.24	3.9	0.03
D00007178	0.26	34.2	1.5	4	3.8	0.65	2.1	0.02
D00007179	0.07	40.1	0.8	3	3.5	0.59	1.9	<0.01
D00007180	<0.01	0.96	<0.1	<1	0.6	0.02	<0.1	<0.01
D00007181	0.23	116	18.1	47	12.9	5.69	9.4	0.09
D00007182	0.17	61.2	6.5	15	7.1	2.35	4.6	<0.01
D00007183	0.62	46.0	10.2	14	10.6	2.52	4.4	0.02
D00007184	0.09	15.0	1.2	5	2.3	0.67	2.5	0.01
D00007185	0.15	30.9	4.3	21	8.0	2.18	5.7	0.01
D00007186	0.62	76.8	9.1	26	20.6	2.77	5.0	<0.01
D00007187	0.57	67.5	8.7	24	17.7	2.91	5.7	0.01
D00007188	0.30	11.2	1.9	6	5.4	0.51	1.5	0.02
D00007189	0.21	32.1	6.8	24	8.9	2.69	5.8	<0.01
D00007190	0.44	34.4	13.3	39	44.9	3.92	6.2	0.01
D00007191	0.81	40.5	14.1	48	41.7	3.96	6.8	<0.01
D00007192	0.19	29.1	6.2	26	14.0	2.59	6.5	<0.01
D00007193	0.19	22.5	4.4	16	8.3	2.07	4.6	<0.01
D00007194	0.31	57.0	7.8	21	11.7	2.86	5.5	<0.01
D00007195	0.38	80.0	10.9	21	20.7	3.53	5.2	<0.01
D00007196	0.13	50.7	8.2	31	17.0	2.57	5.5	0.02
D00007197	0.33	66.7	15.5	45	41.9	4.14	7.1	0.04
D00007198	0.15	47.9	9.3	30	14.6	3.08	5.5	<0.01
D00007199	0.30	72.4	14.9	34	26.4	3.39	4.9	0.02
D00007200	0.25	18.6	1.7	5	6.2	0.59	2.5	0.02
D00007201	0.22	58.4	5.7	14	21.0	1.93	4.3	0.03
D00007202	0.13	28.0	7.7	34	13.3	2.52	8.2	<0.01
D00007203	0.14	42.8	5.0	16	5.4	2.13	5.6	<0.01
D00007204	0.91	112	11.3	31	20.6	3.13	5.6	0.03
D00007205	0.43	65.0	13.7	29	16.7	4.24	7.8	0.02
D00007206	0.09	48.2	4.2	15	7.7	2.34	11.8	0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007134	0.18	79.3	8.5	18	13.2	3.10	4.8	0.02
*Rep D00007165	0.09	72.6	5.1	21	11.9	1.80	3.8	0.01
*Rep D00007187	0.58	68.9	8.9	23	17.7	2.85	5.3	0.01
*Std OREAS920	0.07	71.5	13.4	46	102	3.83	7.0	<0.01
*Std OREAS151B	0.60	17.1	11.2	30	1770	3.41	7.3	0.01
*Std OREAS902	0.03	30.6	987	26	2910	3.27	1.6	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007131	0.11	14.1	0.28	704	2.01	0.02	7.1	700
D00007132	0.02	3.7	0.03	45	0.12	0.04	1.5	430
D00007133	0.22	32.6	0.30	355	1.23	0.01	11.0	870
D00007134	0.40	48.8	0.44	367	1.42	0.01	17.5	740
D00007135	0.12	41.8	0.28	437	2.54	0.01	7.6	2490
D00007136	0.05	83.4	0.13	240	1.16	0.02	4.9	890
D00007137	0.16	43.2	0.32	221	1.03	0.02	15.1	1000
D00007138	0.17	17.5	0.18	121	0.90	0.01	5.4	720
D00007139	0.34	28.5	0.66	386	1.79	0.01	22.5	950
D00007140	0.29	25.3	0.57	326	1.52	0.01	19.9	820
D00007141	0.19	22.4	0.73	540	1.55	<0.01	20.8	660
D00007142	0.25	66.4	0.46	1040	2.10	0.01	46.3	1280
D00007143	0.22	38.0	0.46	407	2.34	0.01	24.8	880
D00007144	0.10	49.7	0.03	571	1.99	0.01	9.6	310
D00007145	0.08	63.2	0.03	345	3.00	<0.01	14.0	560
D00007146	0.08	19.9	0.07	198	2.63	0.01	8.5	660
D00007147	0.08	22.1	0.06	161	3.04	0.01	8.2	490
D00007148	0.08	44.7	0.08	267	3.60	<0.01	11.6	510
D00007149	0.07	35.8	0.06	286	2.53	0.01	7.2	410
D00007150	0.09	45.7	0.06	286	3.77	0.01	12.5	420
D00007151	0.07	34.4	0.09	109	3.32	0.01	9.8	530
D00007152	0.07	30.0	0.28	238	2.50	0.01	15.9	490
D00007153	0.11	31.4	0.31	333	1.95	0.01	19.5	560
D00007154	0.16	39.4	0.31	542	2.69	0.01	20.6	560
D00007155	0.10	24.7	0.39	188	2.28	0.01	18.5	490
D00007156	0.10	24.8	0.63	274	2.21	0.01	23.3	440
D00007157	0.14	18.3	0.18	303	2.80	0.01	9.5	550
D00007158	0.10	12.8	0.07	1010	3.92	0.01	5.8	1010
D00007159	0.16	24.2	0.31	243	2.14	0.01	14.8	580
D00007160	0.13	34.9	0.24	146	2.09	0.01	11.2	670
D00007161	0.15	49.4	0.20	64	1.32	0.01	7.5	470
D00007162	0.33	52.2	0.43	271	1.71	0.01	20.4	680
D00007163	0.33	71.1	0.41	574	1.34	0.01	13.5	910
D00007164	0.28	14.5	0.06	987	1.43	0.01	20.8	3410
D00007165	0.19	39.1	0.44	117	1.21	0.01	15.3	880
D00007166	0.25	39.4	0.22	493	1.56	0.01	11.1	920
D00007167	0.33	34.5	0.22	414	2.28	0.01	10.0	770
D00007168	0.31	71.2	0.28	333	1.52	0.01	15.0	1170
D00007169	0.29	17.3	0.20	430	1.65	0.01	8.8	630
D00007170	0.23	12.0	0.33	79	0.53	0.01	10.6	760

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007171	0.46	24.7	0.43	532	1.28	0.01	21.5	1020
D00007172	0.20	28.7	0.35	263	1.28	0.01	14.8	720
D00007173	0.30	45.2	0.40	357	1.28	0.01	13.7	750
D00007174	0.66	47.6	1.15	578	1.23	0.01	25.9	1130
D00007175	0.23	20.2	0.10	128	1.90	0.01	6.2	350
D00007176	0.17	25.0	0.05	110	2.47	0.01	4.2	480
D00007177	0.24	57.2	0.26	165	1.55	0.01	10.8	560
D00007178	0.09	16.2	0.02	686	1.63	0.02	2.3	370
D00007179	0.09	19.4	<0.01	30	0.70	0.01	1.3	260
D00007180	<0.01	0.5	<0.01	<2	0.06	<0.01	<0.5	<50
D00007181	0.90	60.2	1.21	1040	2.43	0.02	15.8	1510
D00007182	0.29	31.4	0.39	239	1.21	0.01	8.9	520
D00007183	0.21	24.9	0.28	803	1.96	0.01	10.7	900
D00007184	0.07	9.0	0.08	120	0.70	0.02	2.0	440
D00007185	0.07	17.0	0.37	218	1.23	0.01	9.7	700
D00007186	0.37	40.4	0.81	286	1.03	0.01	18.1	1110
D00007187	0.38	39.4	0.80	319	1.52	0.01	15.4	800
D00007188	0.03	8.1	0.06	228	0.74	0.03	2.4	1690
D00007189	0.10	15.9	0.58	417	1.45	0.01	12.6	840
D00007190	0.24	17.3	1.33	478	1.87	0.01	30.4	1050
D00007191	0.20	20.5	1.19	628	1.84	0.01	32.0	1010
D00007192	0.23	15.5	0.62	263	1.45	0.01	8.2	1230
D00007193	0.09	12.8	0.41	318	1.32	0.02	7.7	1100
D00007194	0.24	23.3	0.53	352	1.37	0.01	13.2	690
D00007195	0.31	44.6	0.60	490	1.60	0.01	15.1	1150
D00007196	0.14	26.1	0.78	227	0.95	0.01	21.6	910
D00007197	0.13	31.0	1.08	525	1.73	0.01	35.7	1200
D00007198	0.12	19.8	0.76	326	1.08	0.01	19.6	780
D00007199	0.18	28.6	0.72	509	1.55	0.01	34.4	860
D00007200	0.09	20.8	0.04	333	0.49	0.02	2.7	690
D00007201	0.18	82.0	0.26	274	1.06	0.03	12.3	490
D00007202	0.39	14.2	0.63	449	1.26	0.02	16.7	900
D00007203	0.31	22.0	0.29	204	1.57	0.01	7.7	280
D00007204	0.14	68.1	0.74	587	1.27	0.01	23.1	1310
D00007205	0.70	29.9	0.97	526	1.53	0.01	18.5	910
D00007206	0.46	25.4	0.72	160	1.42	0.02	6.7	260

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007134	0.41	47.8	0.46	371	1.49	0.01	18.4	730
*Rep D00007165	0.18	38.2	0.43	114	1.19	0.01	14.8	910
*Rep D00007187	0.38	40.9	0.81	315	1.40	0.01	14.5	780
*Std OREAS920	0.45	35.7	1.15	540	0.41	0.03	38.4	760
*Std OREAS151B	0.41	7.3	1.52	286	57.9	0.16	14.7	580
*Std OREAS902	0.26	14.3	2.30	492	12.7	0.02	169	730
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007131	23.6	24.5	0.26	1.4	0.8	14.1	0.5	0.11
D00007132	1.1	1.1	0.05	0.3	<0.3	9.5	<0.1	0.03
D00007133	21.2	27.4	0.24	1.1	<0.3	13.9	0.7	0.04
D00007134	24.7	42.3	0.20	2.3	0.4	10.7	5.4	0.11
D00007135	19.0	15.6	0.15	1.0	0.8	34.4	1.2	0.02
D00007136	9.2	9.9	0.13	0.7	0.3	12.1	0.3	0.02
D00007137	9.6	20.0	0.17	1.9	0.6	16.5	1.1	0.05
D00007138	7.8	13.5	0.12	0.7	1.0	15.0	0.2	0.06
D00007139	21.6	37.8	0.33	4.1	0.5	12.5	6.8	0.11
D00007140	18.9	30.7	0.28	3.5	0.6	12.6	3.9	0.10
D00007141	16.2	19.7	0.23	5.1	0.4	10.4	7.6	0.07
D00007142	36.4	31.1	0.27	3.8	0.3	40.4	5.8	0.05
D00007143	71.5	37.4	0.20	3.3	0.5	14.4	8.4	0.06
D00007144	49.7	7.4	0.58	0.5	<0.3	6.1	22.7	<0.01
D00007145	45.0	8.3	0.88	0.5	<0.3	16.2	19.2	<0.01
D00007146	40.6	5.4	1.45	0.5	<0.3	13.5	3.0	0.01
D00007147	50.7	4.8	1.59	0.6	<0.3	17.2	7.8	<0.01
D00007148	73.4	5.7	1.54	0.6	<0.3	14.2	12.2	0.01
D00007149	53.2	5.4	1.11	0.5	<0.3	6.5	9.8	0.01
D00007150	91.7	5.1	1.70	0.7	<0.3	12.0	15.0	<0.01
D00007151	89.3	7.5	2.99	0.6	<0.3	6.5	4.9	0.01
D00007152	23.9	8.0	0.93	0.8	<0.3	5.8	3.6	0.02
D00007153	23.1	11.9	0.81	1.3	<0.3	7.6	5.2	0.04
D00007154	32.0	14.2	0.84	1.6	<0.3	7.5	14.7	0.04
D00007155	40.5	8.5	1.18	1.6	<0.3	6.4	12.9	0.06
D00007156	29.7	9.5	0.73	2.0	<0.3	6.8	7.6	0.09
D00007157	20.6	14.9	0.60	0.9	0.4	5.1	2.6	0.04
D00007158	21.2	16.8	0.49	0.4	0.4	5.7	0.5	0.02
D00007159	20.5	16.0	0.49	1.8	0.3	8.4	6.8	0.05
D00007160	19.1	16.6	0.27	1.1	0.4	7.3	1.3	0.03
D00007161	12.2	14.8	0.24	1.2	<0.3	5.3	10.1	0.03
D00007162	13.0	41.1	0.23	2.6	<0.3	7.8	15.9	0.10
D00007163	6.1	33.3	0.28	2.9	0.4	10.7	20.5	0.09
D00007164	13.8	15.3	0.20	5.6	<0.3	32.4	5.1	<0.01
D00007165	12.5	16.5	0.45	2.4	0.4	12.1	9.5	0.06
D00007166	30.1	18.1	0.27	2.3	<0.3	11.9	13.1	0.03
D00007167	11.8	25.4	0.23	2.6	<0.3	8.7	15.5	0.04
D00007168	19.9	28.1	0.25	3.7	<0.3	15.0	20.1	0.06
D00007169	11.0	26.0	0.18	1.8	<0.3	8.7	7.3	0.04
D00007170	7.0	22.3	0.27	1.9	<0.3	11.6	4.9	0.07

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007171	15.2	47.7	0.27	4.1	<0.3	10.0	10.9	0.12
D00007172	9.5	19.5	0.44	2.0	0.3	8.3	5.4	0.06
D00007173	10.5	29.8	0.40	2.6	0.3	9.0	12.3	0.09
D00007174	20.0	59.5	0.24	8.5	0.3	13.1	12.4	0.18
D00007175	10.3	23.8	0.24	1.5	0.4	4.0	1.9	0.05
D00007176	12.8	18.2	0.20	0.6	0.3	3.4	0.6	0.02
D00007177	20.4	27.0	0.32	1.5	<0.3	8.9	2.1	0.05
D00007178	3.5	6.7	0.13	0.8	<0.3	4.2	2.7	<0.01
D00007179	3.2	6.0	0.09	0.4	0.3	2.3	0.6	0.01
D00007180	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.1	<0.01
D00007181	56.3	72.6	0.33	7.2	0.4	18.4	4.0	0.15
D00007182	14.2	28.0	0.20	2.6	<0.3	5.6	6.9	0.06
D00007183	44.4	33.1	0.25	1.4	0.4	7.4	2.6	0.05
D00007184	27.8	11.9	0.09	0.4	<0.3	3.5	0.1	0.02
D00007185	23.8	10.7	0.23	0.7	0.4	11.9	0.2	0.03
D00007186	18.6	37.3	0.13	3.4	<0.3	22.9	11.3	0.11
D00007187	21.2	41.2	0.16	3.2	0.3	21.6	9.4	0.12
D00007188	7.1	2.6	0.08	0.5	<0.3	16.2	0.9	0.01
D00007189	13.7	19.0	0.16	1.7	0.5	12.5	1.7	0.06
D00007190	22.9	28.7	0.24	3.2	<0.3	21.1	5.9	0.11
D00007191	48.4	22.5	0.24	3.9	0.3	17.8	5.9	0.10
D00007192	19.9	24.2	0.20	1.1	0.5	21.0	0.4	0.06
D00007193	10.8	17.4	0.13	1.2	<0.3	18.1	0.7	0.04
D00007194	30.7	30.8	0.28	2.7	0.4	9.8	6.6	0.11
D00007195	54.4	43.3	0.18	3.9	<0.3	19.5	9.7	0.11
D00007196	20.8	15.9	0.28	3.4	0.4	10.3	8.5	0.08
D00007197	23.6	17.5	0.16	5.3	0.5	28.6	7.2	0.07
D00007198	26.0	16.5	0.15	3.5	0.4	20.4	6.0	0.06
D00007199	19.2	18.0	0.37	4.1	<0.3	11.9	12.2	0.07
D00007200	3.5	7.4	0.07	0.3	<0.3	28.5	0.5	0.02
D00007201	16.9	19.7	0.23	1.6	0.4	28.0	0.9	0.04
D00007202	13.2	75.1	0.17	3.8	1.6	22.5	4.5	0.17
D00007203	12.9	42.5	0.17	2.0	0.6	4.0	5.4	0.11
D00007204	38.0	20.4	0.21	3.0	0.3	16.4	3.3	0.04
D00007205	71.2	77.6	0.33	5.9	0.5	8.2	9.1	0.28
D00007206	9.9	47.0	0.11	7.0	6.2	3.5	10.0	0.17

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007134	23.8	42.8	0.20	2.4	0.3	10.7	5.3	0.11
*Rep D00007165	12.4	16.7	0.43	2.4	0.3	11.8	9.9	0.06
*Rep D00007187	21.7	41.2	0.19	3.2	0.3	21.7	9.0	0.12
*Std OREAS920	21.4	24.3	0.58	2.8	1.0	16.9	16.1	0.11
*Std OREAS151B	40.4	20.0	0.51	9.6	1.1	37.6	2.8	0.07
*Std OREAS902	10.2	8.6	0.83	2.9	<0.3	21.8	5.2	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007131	0.12	1.05	59	0.3	4.48	52
D00007132	<0.02	0.19	11	<0.1	1.61	11
D00007133	0.18	1.40	25	0.2	14.4	148
D00007134	0.34	1.26	32	0.1	11.8	113
D00007135	0.16	3.02	30	0.1	14.1	26
D00007136	0.13	2.12	19	0.2	22.2	15
D00007137	0.16	2.35	26	0.2	13.6	39
D00007138	0.11	0.72	18	0.2	3.79	22
D00007139	0.36	1.14	53	0.2	12.0	109
D00007140	0.29	1.22	47	0.2	9.91	89
D00007141	0.21	0.97	49	0.1	6.53	86
D00007142	0.32	5.03	29	0.2	62.7	298
D00007143	0.37	1.50	38	3.3	12.1	138
D00007144	0.24	4.88	6	0.3	28.5	84
D00007145	0.30	9.35	6	0.4	40.2	101
D00007146	0.22	3.65	9	0.3	9.46	89
D00007147	0.19	4.57	9	0.4	16.5	138
D00007148	0.35	4.22	9	0.4	18.3	193
D00007149	0.14	2.86	7	0.2	16.7	153
D00007150	0.22	4.15	8	0.2	15.2	329
D00007151	0.24	2.68	14	0.2	13.4	203
D00007152	0.19	2.92	17	0.4	14.4	315
D00007153	0.21	2.30	22	0.2	13.9	249
D00007154	0.24	3.25	22	0.2	16.1	235
D00007155	0.18	3.37	22	0.1	10.3	189
D00007156	0.23	2.56	26	0.2	9.38	196
D00007157	0.13	2.21	24	0.3	5.16	191
D00007158	0.14	2.93	17	0.2	4.81	283
D00007159	0.19	2.15	25	0.3	8.55	118
D00007160	0.17	1.58	21	0.2	11.2	42
D00007161	0.11	1.94	16	0.2	14.1	26
D00007162	0.34	1.15	25	0.1	13.9	56
D00007163	0.27	1.67	19	0.2	16.7	44
D00007164	0.25	0.98	25	0.1	41.6	134
D00007165	0.17	0.93	29	0.3	9.75	56
D00007166	0.18	1.23	18	0.5	15.6	46
D00007167	0.17	1.24	14	0.1	19.8	30
D00007168	0.29	1.28	25	0.1	27.8	75
D00007169	0.19	1.58	14	0.2	12.2	26
D00007170	0.18	0.55	18	0.2	6.33	27

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007171	0.41	1.15	33	0.1	18.6	60
D00007172	0.18	0.77	30	0.2	8.31	48
D00007173	0.23	1.10	29	0.3	11.2	62
D00007174	0.53	2.19	80	0.1	21.0	85
D00007175	0.24	0.94	33	0.3	4.76	33
D00007176	0.15	0.89	15	0.2	4.17	26
D00007177	0.28	1.48	30	0.2	9.66	73
D00007178	0.05	0.51	11	<0.1	3.27	25
D00007179	0.06	0.36	9	<0.1	2.85	17
D00007180	<0.02	0.08	2	<0.1	0.61	1
D00007181	0.58	2.61	114	0.1	19.5	118
D00007182	0.25	0.77	34	0.1	7.47	61
D00007183	0.24	0.86	28	0.2	5.03	103
D00007184	0.07	0.31	16	<0.1	1.84	22
D00007185	0.16	0.92	38	1.9	4.34	70
D00007186	0.25	2.94	36	<0.1	17.6	223
D00007187	0.25	2.31	40	<0.1	13.8	219
D00007188	0.05	1.09	9	<0.1	2.66	13
D00007189	0.13	0.91	42	0.2	6.34	96
D00007190	0.25	1.36	56	0.1	6.70	233
D00007191	0.22	1.15	56	0.1	9.28	392
D00007192	0.22	1.21	62	0.1	5.84	74
D00007193	0.12	1.07	34	0.1	4.75	61
D00007194	0.23	1.23	45	0.3	7.53	92
D00007195	0.42	2.64	45	<0.1	15.0	190
D00007196	0.16	0.97	42	0.3	8.25	96
D00007197	0.15	1.89	50	7.5	11.5	130
D00007198	0.13	0.85	39	0.2	6.60	133
D00007199	0.17	1.22	41	0.2	10.2	96
D00007200	0.06	0.48	11	<0.1	5.66	17
D00007201	0.17	2.09	24	0.1	26.7	50
D00007202	0.26	0.79	48	4.8	5.56	72
D00007203	0.21	0.51	37	0.3	3.44	41
D00007204	0.18	4.79	35	0.2	31.2	403
D00007205	0.58	1.06	78	0.2	8.36	178
D00007206	0.39	0.96	43	0.3	3.13	61

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Final : VC172792 Order: PO# BMC17-01015

Report File No.: 0000025205

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007134	0.33	1.24	33	0.4	12.1	119
*Rep D00007165	0.17	0.96	29	0.4	9.49	54
*Rep D00007187	0.25	2.23	42	<0.1	13.1	214
*Std OREAS920	0.16	2.28	25	0.5	17.5	108
*Std OREAS151B	0.14	0.66	147	0.7	11.5	252
*Std OREAS902	0.25	2.36	9	2.2	8.12	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172794
[Report File No.: 0000024729]

Date: September 18, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01015
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007207	0.490	6	0.18	1.36	78	161	0.12	0.43
D00007208	0.400	<5	0.07	1.71	19	133	0.14	0.46
D00007209	0.565	<5	0.21	1.66	24	115	0.16	0.45
D00007210	0.445	<5	0.16	2.02	16	130	0.14	0.44
D00007211	0.440	5	0.18	1.52	12	119	0.18	0.72
D00007212	0.575	<5	0.11	2.00	19	95	0.22	0.57
D00007213	0.405	<5	0.22	1.65	14	140	0.14	0.34
D00007214	0.350	<5	0.19	2.15	20	148	0.21	0.49
D00007215	0.310	<5	0.15	0.32	3	32	0.03	0.23
D00007216	0.520	<5	0.04	1.56	12	94	0.27	0.25
D00007217	0.480	<5	0.08	1.21	6	65	0.28	0.20
D00007218	0.465	5	0.48	1.97	13	69	0.33	0.12
D00007219	0.475	6	0.03	1.25	13	127	0.32	0.32
D00007220	0.405	<5	0.02	1.31	10	119	0.30	0.38
D00007221	0.320	<5	0.17	0.76	9	79	0.26	0.16
D00007222	0.245	9	0.54	1.80	13	159	0.18	0.96
D00007223	0.445	6	0.38	2.12	23	104	0.20	0.64
D00007224	0.535	7	0.15	1.65	12	129	0.18	0.31
D00007225	0.490	<5	0.25	1.03	7	109	0.18	0.22
D00007226	0.490	<5	0.16	2.28	37	191	0.24	0.49
D00007227	0.505	6	0.16	1.96	16	265	0.21	0.60
D00007228	0.550	7	0.20	1.78	95	83	0.20	0.44
D00007229	0.400	10	0.54	1.51	21	90	0.14	0.36
D00007230	0.600	<5	0.05	1.93	18	134	0.17	0.30
D00007231	0.560	6	0.17	2.20	26	116	0.21	0.33
D00007232	0.385	10	0.26	1.33	15	84	0.21	0.61
D00007233	0.145	7	0.14	0.39	5	52	0.94	0.12
D00007234	0.395	8	0.63	0.72	33	114	0.99	0.19
D00007235	0.465	5	0.33	0.86	18	207	0.66	0.06
D00007236	0.435	<5	0.19	0.79	14	213	0.61	0.17
D00007237	0.450	6	0.02	0.71	7	56	0.38	0.10
D00007238	0.335	6	0.13	0.61	7	100	0.29	0.07
D00007239	0.680	7	0.14	0.94	6	87	0.29	0.12
D00007240	0.165	<5	0.76	0.92	9	305	0.39	0.09
D00007241	0.610	<5	0.04	3.40	<1	342	<0.02	0.48
D00007242	0.565	<5	0.09	0.74	3	53	0.31	0.23
D00007243	0.155	6	0.54	0.80	5	497	0.33	0.07
D00007244	0.370	<5	0.42	0.88	6	373	0.98	0.06
D00007245	0.480	<5	0.07	1.15	7	154	0.28	0.12
D00007246	0.605	<5	0.09	1.02	9	96	0.29	0.12

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007247	0.525	8	0.11	0.69	8	119	0.42	0.14
D00007248	0.270	7	0.14	0.42	5	118	0.21	0.11
D00007249	0.610	6	0.05	0.51	8	84	0.16	0.16
D00007250	0.510	<5	0.27	0.63	13	128	0.65	0.10
D00007296	0.285	7	0.14	0.29	17	44	0.21	0.03
D00007297	0.490	7	0.04	0.79	17	71	0.18	0.12
D00007298	0.330	14	2.63	1.17	55	109	0.23	0.10
D00007299	0.570	9	0.18	0.98	21	74	0.17	0.10
D00007300	0.110	<5	<0.01	<0.01	2	<5	<0.02	<0.01
D00007301	0.190	6	0.31	0.71	16	135	0.17	0.19
D00007302	0.190	12	0.37	1.31	11	224	0.22	0.31
D00007303	0.175	<5	0.08	0.77	4	74	0.16	0.18
D00007304	0.415	<5	0.16	1.38	12	109	0.33	0.55
D00007305	0.580	7	0.11	2.16	7	134	0.20	0.43
D00007306	0.470	<5	0.06	1.98	7	90	0.20	0.32
D00007307	0.530	7	0.08	1.89	12	55	0.31	0.18
D00007308	0.290	<5	0.24	1.12	4	53	0.18	0.10
D00007309	0.535	<5	0.08	1.92	10	70	0.22	0.26
D00007310	0.440	<5	0.19	1.84	7	63	0.23	0.22
D00007311	0.305	<5	0.52	1.83	9	157	0.27	0.54
D00007312	0.525	<5	0.34	1.75	27	252	0.23	0.47
D00007313	0.330	6	0.24	1.40	18	138	0.23	0.60
D00007314	0.285	<5	0.20	0.97	32	90	0.24	0.39
D00007315	0.525	6	<0.01	3.11	11	204	0.13	0.27
D00007316	0.480	<5	0.05	1.94	11	176	0.23	0.28
D00007317	0.495	6	0.04	1.24	9	66	0.18	0.12
D00007318	0.575	5	0.04	1.20	8	72	0.18	0.11
D00007319	0.420	<5	0.08	1.01	7	63	0.37	0.05
D00007320	0.515	<5	0.03	1.12	7	69	0.18	0.12
D00007321	0.545	<5	0.12	1.20	4	113	0.21	0.22
D00007322	0.415	7	0.08	1.08	8	94	0.16	0.18
D00007323	0.320	6	0.18	0.51	15	43	0.31	0.03
D00007324	0.385	7	0.13	0.82	23	109	0.19	0.53
D00007325	0.430	<5	0.15	0.58	7	52	0.17	0.05
D00007326	0.370	<5	0.08	0.65	15	84	0.29	0.30
D00007327	0.310	6	0.13	0.56	11	72	0.32	0.44
*Std OREAS151B		64						
*Std OXK119		3530						
*Std AMIS0282		194						
*Blk BLANK		<5						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00007207		0.18	1.34	79	156	0.13	0.42
*Rep D00007234		0.67	0.75	34	119	1.02	0.20
*Rep D00007310		0.18	1.74	8	61	0.23	0.21
*Std OREAS920		0.09	2.29	5	75	0.63	0.33
*Std OREAS151B		0.58	2.44	35	68	0.38	1.40
*Std OREAS902		0.31	0.53	617	15	8.47	4.18
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007209	<5						
*Rep D00007249	6						
*Rep D00007321	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007207	0.24	49.8	10.8	22	21.6	3.82	5.7	<0.01
D00007208	0.16	24.1	9.3	30	18.4	3.20	6.6	<0.01
D00007209	0.19	31.4	10.9	32	25.3	3.39	6.1	0.01
D00007210	0.19	44.7	11.7	44	34.4	3.80	7.1	0.01
D00007211	0.25	67.3	12.2	31	20.4	2.89	5.5	0.03
D00007212	0.33	34.6	10.7	43	24.7	4.24	6.9	0.01
D00007213	0.23	25.3	9.7	34	26.1	3.24	5.9	<0.01
D00007214	0.23	35.1	12.1	47	29.3	4.21	7.0	<0.01
D00007215	0.03	4.41	1.4	3	7.1	0.44	1.6	<0.01
D00007216	0.13	45.9	8.1	32	18.7	2.51	5.6	0.02
D00007217	0.13	28.7	5.3	24	9.7	1.88	5.0	0.01
D00007218	0.29	26.7	8.8	34	13.8	2.91	5.0	0.04
D00007219	0.11	36.0	8.4	30	15.2	2.27	4.4	<0.01
D00007220	0.12	34.5	7.6	30	13.3	2.11	4.5	<0.01
D00007221	0.05	24.3	2.8	13	6.7	1.44	5.2	<0.01
D00007222	0.68	71.0	4.9	14	17.5	2.03	4.8	0.07
D00007223	0.64	44.4	23.3	59	74.9	5.38	6.6	0.02
D00007224	0.30	46.2	12.1	40	41.0	3.16	5.3	0.01
D00007225	0.16	21.0	3.4	15	9.5	1.53	4.6	<0.01
D00007226	0.31	40.2	23.2	52	28.7	5.55	7.5	<0.01
D00007227	0.13	30.7	9.1	41	18.1	3.46	6.8	0.02
D00007228	0.37	35.2	13.2	45	27.2	4.25	7.1	<0.01
D00007229	0.15	28.4	10.1	32	31.5	3.04	5.3	<0.01
D00007230	0.29	69.1	12.3	33	42.8	3.55	6.1	<0.01
D00007231	0.52	61.7	20.1	54	50.3	4.55	7.3	<0.01
D00007232	0.28	40.9	10.2	31	31.6	3.07	4.7	0.01
D00007233	0.99	26.7	4.4	22	15.7	1.34	2.9	0.03
D00007234	4.45	49.2	12.2	16	131	3.36	2.2	0.07
D00007235	1.20	85.7	8.0	13	35.2	2.17	3.3	0.05
D00007236	1.06	89.0	7.6	14	16.8	1.59	3.2	0.03
D00007237	0.52	48.1	6.1	15	11.7	1.47	2.7	0.01
D00007238	0.46	53.5	3.8	11	8.0	1.42	2.8	0.02
D00007239	0.48	65.6	6.6	16	12.9	1.75	3.6	0.01
D00007240	0.94	80.8	11.4	14	12.0	1.98	4.1	0.04
D00007241	0.39	69.8	15.6	43	30.0	5.38	9.8	<0.01
D00007242	0.56	153	4.7	6	16.4	1.64	4.0	<0.01
D00007243	0.57	58.4	2.8	11	9.9	1.14	3.3	0.03
D00007244	0.66	104	8.3	9	7.7	1.54	4.1	0.03
D00007245	0.36	56.4	4.6	13	7.9	1.95	4.4	<0.01
D00007246	0.46	97.4	6.1	14	13.6	1.69	3.9	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007247	0.18	63.4	2.6	11	6.7	1.62	3.3	0.02
D00007248	0.31	116	2.8	6	6.0	1.00	2.9	0.05
D00007249	0.04	74.9	2.1	10	4.7	1.52	2.4	0.01
D00007250	0.20	93.5	5.7	11	18.0	2.60	2.7	0.05
D00007296	0.09	38.2	2.6	11	8.0	1.44	4.0	0.05
D00007297	0.27	41.2	8.5	15	12.0	1.72	2.5	<0.01
D00007298	0.50	36.4	5.8	18	14.4	2.53	3.8	0.14
D00007299	0.35	37.9	7.8	16	10.7	1.87	2.8	0.01
D00007300	<0.01	1.04	<0.1	<1	0.6	0.02	<0.1	<0.01
D00007301	0.72	44.6	10.7	14	20.2	1.99	2.3	<0.01
D00007302	0.69	68.0	13.2	23	16.7	2.41	4.8	0.05
D00007303	0.59	27.6	4.2	18	7.5	1.38	4.0	<0.01
D00007304	0.51	68.7	13.5	36	21.8	2.86	4.9	<0.01
D00007305	0.28	39.9	12.0	45	14.2	4.61	9.1	<0.01
D00007306	0.20	35.9	9.7	36	23.6	3.52	6.4	<0.01
D00007307	0.20	30.5	9.9	30	18.0	3.60	6.3	<0.01
D00007308	0.12	21.0	3.9	18	5.1	1.76	4.9	<0.01
D00007309	0.16	37.6	8.9	35	19.7	3.05	6.0	<0.01
D00007310	0.20	70.1	8.7	20	19.7	3.14	6.4	<0.01
D00007311	0.27	51.1	7.6	27	10.8	2.81	6.3	0.02
D00007312	0.75	90.0	12.3	22	17.7	5.09	6.1	0.02
D00007313	0.26	83.3	9.1	10	10.6	3.17	5.2	<0.01
D00007314	0.27	27.3	9.7	3	12.4	3.22	3.1	<0.01
D00007315	0.16	119	22.6	64	19.4	5.58	10.0	<0.01
D00007316	0.09	153	10.7	25	15.2	3.54	8.0	<0.01
D00007317	0.10	70.6	5.3	16	11.4	2.61	5.2	<0.01
D00007318	0.10	56.7	5.1	16	10.1	2.37	4.5	<0.01
D00007319	0.10	57.9	2.7	8	6.8	2.52	6.7	0.01
D00007320	0.15	60.7	4.9	16	9.4	2.42	4.8	<0.01
D00007321	0.06	72.9	4.7	13	9.2	2.32	4.9	<0.01
D00007322	0.07	77.1	4.2	12	8.3	2.05	4.5	<0.01
D00007323	0.13	38.9	3.3	8	8.6	1.52	4.1	0.02
D00007324	0.26	108	11.7	11	12.2	3.01	3.0	0.03
D00007325	0.14	22.9	2.8	6	4.9	1.08	4.0	<0.01
D00007326	0.12	31.8	4.2	12	6.9	1.98	3.3	<0.01
D00007327	0.09	45.1	5.4	7	6.7	1.69	2.0	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007207	0.23	52.1	10.8	21	21.8	3.80	5.6	0.01
*Rep D00007234	4.71	52.1	12.8	16	133	3.37	2.3	0.07
*Rep D00007310	0.19	68.7	8.6	20	19.6	3.11	6.3	<0.01
*Std OREAS920	0.07	67.3	13.7	46	102	3.63	6.8	<0.01
*Std OREAS151B	0.61	15.2	10.7	29	1850	3.36	7.4	<0.01
*Std OREAS902	0.02	30.7	984	24	3040	3.07	1.7	0.04
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007207	0.14	31.5	0.62	564	1.38	0.01	17.4	1430
D00007208	0.06	12.8	0.80	287	0.99	0.02	18.7	1130
D00007209	0.06	18.0	0.86	302	1.00	0.01	22.5	980
D00007210	0.06	28.6	1.10	442	0.86	0.01	29.1	1460
D00007211	0.11	37.4	0.63	438	0.85	0.01	20.1	1300
D00007212	0.05	17.4	1.05	403	1.37	0.01	27.5	1070
D00007213	0.05	14.1	0.82	327	1.15	0.02	25.5	1040
D00007214	0.05	20.4	1.16	382	1.27	0.01	29.8	1410
D00007215	0.02	2.9	0.06	92	0.23	0.04	2.5	430
D00007216	0.13	26.8	0.71	234	1.01	0.01	21.3	870
D00007217	0.13	15.9	0.52	206	0.79	0.01	11.6	810
D00007218	0.10	14.2	0.53	258	1.09	0.01	21.1	610
D00007219	0.11	19.9	0.64	246	0.57	0.01	21.4	900
D00007220	0.11	19.4	0.62	222	0.57	0.02	20.6	1030
D00007221	0.08	13.9	0.27	90	0.78	0.01	6.1	260
D00007222	0.05	47.7	0.23	525	1.62	0.03	12.2	2520
D00007223	0.08	26.9	1.16	664	1.60	0.02	63.3	1050
D00007224	0.06	21.9	0.74	413	1.13	0.01	36.2	950
D00007225	0.05	10.8	0.35	108	0.68	0.02	10.6	410
D00007226	0.07	19.9	1.20	680	2.33	0.01	34.3	950
D00007227	0.06	16.6	0.98	254	1.02	0.01	21.6	1070
D00007228	0.08	18.7	1.16	443	1.46	0.01	31.0	820
D00007229	0.05	23.0	0.74	278	1.14	0.01	25.8	1050
D00007230	0.06	46.8	0.96	351	0.97	0.01	27.3	1170
D00007231	0.07	36.1	1.29	455	1.81	0.01	41.3	1450
D00007232	0.06	21.4	0.69	484	2.34	0.01	26.2	1120
D00007233	0.11	12.9	0.10	202	1.48	0.01	5.2	720
D00007234	0.19	27.9	0.24	660	4.40	0.01	23.1	730
D00007235	0.22	46.7	0.24	773	1.46	0.01	13.9	540
D00007236	0.18	55.6	0.23	631	1.21	0.01	12.5	630
D00007237	0.14	20.6	0.23	339	0.85	0.01	11.2	540
D00007238	0.26	28.0	0.28	141	1.00	0.01	7.8	470
D00007239	0.27	36.3	0.36	292	1.12	0.01	10.8	590
D00007240	0.24	33.5	0.26	756	2.02	0.01	7.5	1420
D00007241	2.04	32.0	2.18	644	0.17	0.02	16.0	1430
D00007242	0.36	67.2	0.30	390	1.12	0.01	4.9	1030
D00007243	0.11	34.7	0.17	108	1.03	0.02	6.7	1000
D00007244	0.14	41.4	0.08	705	3.20	0.01	4.6	1320
D00007245	0.34	37.5	0.53	160	1.39	0.01	8.3	630
D00007246	0.20	48.3	0.31	302	1.47	0.01	12.8	700

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007247	0.23	38.4	0.19	95	1.78	0.01	6.0	740
D00007248	0.14	59.0	0.06	213	1.92	0.01	4.4	710
D00007249	0.16	45.1	0.16	92	1.51	0.01	4.4	700
D00007250	0.18	52.3	0.15	284	2.03	0.01	10.2	740
D00007296	0.09	21.3	0.03	100	1.51	0.01	7.3	270
D00007297	0.14	21.8	0.20	525	1.33	0.01	13.6	630
D00007298	0.22	20.1	0.19	305	2.60	0.01	10.8	760
D00007299	0.13	21.2	0.21	332	1.11	0.01	14.1	450
D00007300	<0.01	0.5	<0.01	<2	<0.05	0.01	<0.5	<50
D00007301	0.19	26.8	0.21	584	1.28	0.01	27.2	680
D00007302	0.18	46.6	0.47	2050	1.52	0.02	18.8	930
D00007303	0.14	18.6	0.39	235	0.96	0.02	10.0	360
D00007304	0.26	39.0	0.84	896	1.40	0.01	23.5	1670
D00007305	0.16	19.8	1.29	480	1.42	0.01	19.8	1180
D00007306	0.09	16.4	1.21	349	1.33	0.01	23.4	1410
D00007307	0.11	15.5	0.86	343	1.41	<0.01	18.4	900
D00007308	0.09	10.6	0.57	145	0.65	<0.01	8.0	660
D00007309	0.21	20.7	0.93	294	1.42	0.01	19.3	1150
D00007310	0.15	35.7	0.85	245	1.00	0.01	15.2	1130
D00007311	0.12	25.3	0.71	352	1.70	0.02	15.0	1100
D00007312	0.31	47.5	0.66	987	3.76	0.02	17.5	1200
D00007313	0.40	46.2	0.58	461	1.73	0.01	8.9	980
D00007314	0.36	14.2	0.29	947	2.28	0.02	7.4	830
D00007315	1.05	91.7	1.71	878	0.88	0.01	38.7	850
D00007316	0.63	81.6	0.87	455	1.43	0.01	18.4	1080
D00007317	0.27	33.6	0.48	214	1.34	0.01	13.5	590
D00007318	0.25	25.7	0.40	204	1.31	0.01	12.0	510
D00007319	0.24	26.3	0.27	185	1.88	0.01	5.3	380
D00007320	0.24	27.5	0.45	189	1.16	0.01	12.1	510
D00007321	0.32	47.4	0.46	247	1.67	0.01	9.6	700
D00007322	0.30	47.9	0.42	210	1.03	0.01	9.2	690
D00007323	0.12	16.4	0.08	175	1.56	<0.01	6.4	340
D00007324	0.11	40.7	0.23	857	1.21	0.01	16.4	1080
D00007325	0.08	12.5	0.10	107	1.42	0.01	4.9	250
D00007326	0.09	18.5	0.21	187	1.05	0.01	7.9	600
D00007327	0.12	26.2	0.17	286	1.06	0.01	8.9	1310

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007207	0.14	32.5	0.63	567	1.31	0.01	16.4	1340
*Rep D00007234	0.19	29.3	0.25	676	4.50	0.01	24.0	760
*Rep D00007310	0.16	35.3	0.84	246	1.02	<0.01	14.9	1060
*Std OREAS920	0.41	36.3	1.07	534	0.38	0.03	36.7	710
*Std OREAS151B	0.40	7.5	1.40	293	58.0	0.17	14.4	550
*Std OREAS902	0.27	15.9	2.09	488	12.4	0.02	161	700
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007207	13.1	13.2	0.16	6.1	0.3	21.1	8.1	0.04
D00007208	18.8	11.6	0.19	4.0	0.4	24.0	3.0	0.05
D00007209	22.5	9.7	0.20	4.6	0.3	21.2	5.1	0.03
D00007210	13.8	9.5	0.20	6.0	<0.3	19.7	6.4	0.04
D00007211	18.0	13.8	0.20	3.4	<0.3	33.1	5.3	0.02
D00007212	13.7	10.8	0.25	4.6	<0.3	25.8	2.7	0.03
D00007213	9.6	7.0	0.20	3.6	<0.3	18.6	2.6	0.03
D00007214	18.8	7.9	0.27	4.9	<0.3	24.8	4.8	0.03
D00007215	1.6	1.2	<0.05	0.4	<0.3	14.2	<0.1	0.02
D00007216	18.9	16.4	0.30	3.3	0.5	11.5	8.0	0.09
D00007217	13.9	17.2	0.17	1.5	0.4	9.1	0.9	0.06
D00007218	14.0	16.8	0.40	2.9	0.5	6.6	6.1	0.06
D00007219	11.3	15.3	0.26	2.9	0.5	13.9	7.2	0.08
D00007220	11.0	15.9	0.25	2.9	0.6	15.2	6.7	0.08
D00007221	11.3	14.5	0.14	1.5	0.5	8.1	2.0	0.07
D00007222	11.4	6.1	0.19	1.1	<0.3	39.1	1.5	0.02
D00007223	13.7	10.4	0.48	7.0	0.3	27.7	5.7	0.05
D00007224	22.6	8.2	0.53	4.0	0.4	18.2	6.5	0.06
D00007225	18.1	7.1	0.14	1.9	0.3	13.1	1.8	0.03
D00007226	25.6	10.3	0.29	5.0	0.4	26.8	6.2	0.05
D00007227	18.6	9.5	0.24	4.7	0.3	33.8	4.2	0.04
D00007228	22.0	14.4	0.23	6.1	<0.3	20.8	6.0	0.05
D00007229	16.6	7.7	0.29	2.5	<0.3	19.3	0.5	0.02
D00007230	26.9	8.2	0.29	4.0	<0.3	14.0	7.3	0.04
D00007231	33.4	10.1	0.33	5.8	0.3	16.8	5.5	0.05
D00007232	28.6	7.0	0.37	2.9	<0.3	30.2	4.9	0.03
D00007233	51.0	13.3	0.22	0.8	<0.3	14.2	2.3	0.04
D00007234	459	20.4	1.61	1.8	<0.3	16.0	8.0	0.04
D00007235	93.3	32.8	0.53	1.5	0.3	6.4	4.9	0.03
D00007236	34.9	24.0	0.37	1.3	<0.3	8.6	7.8	0.03
D00007237	18.1	18.2	0.36	1.2	<0.3	5.4	7.0	0.05
D00007238	25.2	26.3	0.35	1.4	<0.3	5.6	6.8	0.06
D00007239	20.8	28.1	0.47	2.0	<0.3	8.0	13.1	0.08
D00007240	36.3	26.3	0.63	1.5	0.4	9.4	2.0	0.06
D00007241	3.6	148	<0.05	4.1	0.8	16.2	9.6	0.35
D00007242	17.8	26.0	0.06	2.3	0.4	11.1	16.8	0.10
D00007243	15.8	11.7	0.27	0.4	<0.3	7.1	0.5	0.02
D00007244	21.2	21.3	0.32	0.3	0.5	5.9	0.2	0.01
D00007245	16.2	27.9	0.39	2.0	0.4	6.9	6.8	0.10
D00007246	12.0	21.7	0.39	1.8	0.4	7.1	12.5	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007247	15.0	29.6	0.19	1.5	<0.3	7.8	4.9	0.06
D00007248	9.5	14.7	0.21	0.7	<0.3	7.3	1.1	0.02
D00007249	11.7	18.5	0.15	1.2	<0.3	7.5	8.0	0.03
D00007250	23.3	16.0	0.36	1.4	<0.3	8.5	9.0	0.03
D00007296	8.1	12.6	0.68	0.8	0.6	4.9	3.3	0.06
D00007297	25.5	13.5	0.47	1.4	<0.3	6.3	4.3	0.04
D00007298	64.2	21.7	0.82	1.8	0.3	7.8	2.6	0.04
D00007299	39.2	14.2	0.47	1.6	<0.3	7.1	6.3	0.04
D00007300	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.2	<0.01
D00007301	25.6	17.1	0.37	1.9	<0.3	11.8	5.8	0.03
D00007302	26.9	21.9	0.25	2.3	<0.3	17.5	2.0	0.03
D00007303	8.8	18.1	0.15	1.7	<0.3	12.1	1.5	0.04
D00007304	18.1	27.3	0.14	3.8	<0.3	26.1	10.2	0.11
D00007305	28.4	33.4	0.14	6.1	0.5	20.8	6.0	0.10
D00007306	17.9	14.1	0.15	3.4	<0.3	15.3	4.9	0.06
D00007307	26.7	15.7	0.18	3.3	0.3	8.5	6.4	0.09
D00007308	12.2	11.8	0.06	0.7	<0.3	5.7	0.3	0.02
D00007309	26.0	21.1	0.09	2.7	<0.3	10.5	3.1	0.10
D00007310	39.6	20.1	0.10	2.5	<0.3	8.8	2.6	0.07
D00007311	44.5	18.3	0.17	0.8	<0.3	25.4	0.3	0.02
D00007312	27.8	42.9	0.24	4.6	0.3	22.1	11.5	0.12
D00007313	29.1	50.5	0.16	3.6	<0.3	22.3	9.5	0.14
D00007314	24.7	41.9	0.09	2.3	<0.3	16.7	4.5	0.07
D00007315	13.1	120	0.25	10.8	0.4	12.6	15.6	0.23
D00007316	24.0	66.7	0.27	5.1	0.5	8.6	23.2	0.17
D00007317	14.3	31.7	0.50	1.9	0.4	6.6	6.3	0.10
D00007318	15.4	28.0	0.42	1.9	0.3	7.0	6.9	0.10
D00007319	20.7	31.3	0.35	1.5	0.6	4.0	7.5	0.14
D00007320	12.4	25.3	0.42	2.0	0.4	7.2	8.3	0.10
D00007321	13.4	39.7	0.29	2.5	0.3	10.1	14.1	0.12
D00007322	10.4	35.8	0.26	2.0	0.3	9.1	10.4	0.09
D00007323	15.6	13.5	0.34	0.8	0.4	3.3	1.7	0.05
D00007324	17.5	13.1	0.31	2.2	<0.3	16.5	6.2	0.03
D00007325	8.3	12.1	0.17	1.0	0.3	4.1	2.6	0.03
D00007326	16.2	11.1	0.32	1.3	<0.3	10.4	3.7	0.04
D00007327	14.4	13.7	0.21	1.3	<0.3	13.7	6.4	0.02

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007207	13.2	13.1	0.16	6.0	0.3	20.8	9.0	0.04
*Rep D00007234	473	21.8	1.61	1.9	<0.3	16.4	8.6	0.04
*Rep D00007310	39.1	19.8	0.12	2.4	<0.3	8.7	2.5	0.06
*Std OREAS920	19.0	24.3	0.60	2.9	1.1	17.4	16.1	0.12
*Std OREAS151B	37.9	20.8	0.63	9.6	1.1	38.8	2.5	0.08
*Std OREAS902	9.6	9.8	0.92	2.8	<0.3	22.8	5.2	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007207	0.12	1.08	50	0.2	14.4	141
D00007208	0.09	0.46	59	0.2	5.32	96
D00007209	0.09	0.74	58	0.1	7.94	135
D00007210	0.08	0.89	68	0.2	14.0	116
D00007211	0.10	1.96	43	0.4	16.5	84
D00007212	0.07	0.96	66	0.1	7.95	141
D00007213	0.07	0.53	52	0.1	5.63	93
D00007214	0.08	0.76	62	0.1	8.24	133
D00007215	0.03	0.46	11	<0.1	1.64	9
D00007216	0.16	0.96	41	0.2	8.48	97
D00007217	0.14	0.78	31	0.2	5.38	64
D00007218	0.13	0.63	39	0.5	4.81	81
D00007219	0.15	1.15	35	0.4	7.40	65
D00007220	0.15	1.06	35	0.3	7.84	64
D00007221	0.10	0.54	32	0.2	3.46	36
D00007222	0.12	10.3	21	0.1	24.5	124
D00007223	0.08	1.12	64	0.2	16.6	135
D00007224	0.10	0.91	51	0.2	8.31	119
D00007225	0.08	0.45	31	0.1	3.37	58
D00007226	0.11	0.87	67	0.2	7.29	159
D00007227	0.13	0.85	58	0.1	5.91	100
D00007228	0.10	0.65	67	0.1	7.30	202
D00007229	0.08	0.73	44	0.2	9.17	80
D00007230	0.10	0.81	49	0.1	18.4	145
D00007231	0.12	1.02	70	0.2	13.3	158
D00007232	0.09	1.24	41	0.2	8.30	145
D00007233	0.10	1.46	27	0.1	5.27	84
D00007234	0.38	4.48	18	0.2	12.0	1720
D00007235	0.38	4.01	22	0.2	18.0	391
D00007236	0.28	3.77	20	0.3	21.3	373
D00007237	0.16	1.83	21	0.3	12.7	187
D00007238	0.22	1.64	23	0.1	10.0	105
D00007239	0.24	2.22	28	0.2	14.9	151
D00007240	0.34	3.37	37	0.2	14.2	130
D00007241	1.01	1.05	69	<0.1	11.3	144
D00007242	0.22	2.73	15	<0.1	15.2	88
D00007243	0.17	2.74	21	0.2	13.3	83
D00007244	0.18	3.28	25	0.2	13.3	79
D00007245	0.27	2.09	27	0.1	12.9	150
D00007246	0.21	2.52	21	0.2	14.9	173

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007247	0.22	2.24	18	0.2	13.0	95
D00007248	0.09	1.30	18	0.2	11.5	29
D00007249	0.15	0.77	15	<0.1	8.87	34
D00007250	0.22	1.69	15	0.1	12.6	99
D00007296	0.11	0.65	44	0.5	2.44	32
D00007297	0.16	1.10	21	0.2	7.03	93
D00007298	0.20	1.82	27	0.3	6.92	111
D00007299	0.13	0.76	23	0.3	4.79	101
D00007300	<0.02	0.09	1	<0.1	0.61	2
D00007301	0.18	1.35	18	0.1	9.28	201
D00007302	0.17	1.45	30	0.2	14.9	98
D00007303	0.09	0.45	26	0.1	3.69	49
D00007304	0.21	1.67	42	0.1	14.3	231
D00007305	0.19	1.22	80	0.1	7.79	201
D00007306	0.16	0.99	45	0.1	7.01	171
D00007307	0.14	0.80	54	0.1	6.34	153
D00007308	0.11	0.49	28	<0.1	3.23	63
D00007309	0.19	0.78	45	<0.1	6.71	155
D00007310	0.19	0.86	36	<0.1	13.6	310
D00007311	0.17	1.58	36	0.2	7.45	134
D00007312	0.39	8.59	44	0.1	20.5	181
D00007313	0.41	2.48	39	<0.1	14.5	86
D00007314	0.33	1.94	18	<0.1	11.4	73
D00007315	0.81	1.00	101	0.1	18.7	108
D00007316	0.48	1.58	44	0.2	21.7	73
D00007317	0.23	0.77	31	0.2	10.1	57
D00007318	0.21	0.73	28	0.2	8.08	55
D00007319	0.27	0.75	33	0.3	6.18	39
D00007320	0.20	0.71	31	0.3	8.38	52
D00007321	0.33	1.24	23	0.3	9.99	55
D00007322	0.28	1.16	20	0.1	10.2	48
D00007323	0.10	0.84	28	0.3	3.38	31
D00007324	0.12	1.60	21	0.2	17.1	49
D00007325	0.09	0.53	22	0.2	2.39	27
D00007326	0.09	0.77	31	0.3	5.64	34
D00007327	0.14	1.21	15	0.3	11.7	28

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Final : VC172794 Order: PO# BMC17-01015

Report File No.: 0000024729

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007207	0.12	1.07	55	0.2	14.0	140
*Rep D00007234	0.41	4.60	20	0.2	12.5	1810
*Rep D00007310	0.19	0.85	37	<0.1	13.4	300
*Std OREAS920	0.16	2.26	24	0.6	18.0	110
*Std OREAS151B	0.13	0.63	155	0.7	11.2	249
*Std OREAS902	0.24	2.39	9	2.3	7.66	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172796
[Report File No.: 0000024728]

Date: September 18, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01015
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007328	0.430	<5	0.08	0.55	14	62	0.21	0.42
D00007329	0.125	<5	0.08	0.22	<1	24	0.05	0.06
D00007330	0.260	<5	1.67	1.30	11	104	0.35	0.37
D00007331	0.380	<5	0.16	1.01	15	60	0.30	0.08
D00007332	0.630	5	0.23	1.44	22	146	0.22	0.19
D00007333	0.410	9	0.31	1.73	81	183	0.14	0.99
D00007334	0.505	8	0.78	1.52	10	198	0.19	0.51
D00007335	0.445	8	0.11	0.97	11	79	0.21	0.17
D00007336	0.480	<5	0.07	0.81	25	63	0.36	0.05
D00007337	0.410	<5	0.15	0.90	17	55	0.28	0.05
D00007338	0.510	8	0.06	0.85	11	66	0.20	0.13
D00007339	0.415	<5	0.05	0.64	10	105	0.16	0.16
D00007340	0.110	<5	<0.01	<0.01	<1	<5	<0.02	<0.01
D00007341	0.440	<5	0.05	0.83	7	96	0.16	0.15
D00007342	0.265	5	0.11	0.51	8	44	0.48	0.06
D00007343	0.585	<5	0.14	1.05	9	109	0.15	0.34
D00007344	0.395	<5	0.24	0.46	7	46	0.21	0.03
D00007345	0.540	<5	0.09	1.10	14	117	0.14	0.29
D00007346	0.315	<5	0.12	0.78	9	63	0.23	0.05
D00007347	0.335	<5	0.07	1.27	7	92	0.14	0.26
D00007348	0.480	<5	0.30	1.32	24	48	0.27	0.06
D00007349	0.785	<5	0.09	1.51	7	60	0.19	0.28
D00007350	0.570	<5	0.16	1.25	6	42	0.22	0.12
D00007351	0.440	<5	0.07	1.13	12	53	0.33	0.03
D00007352	0.500	<5	0.05	1.62	8	65	0.23	0.23
D00007353	0.400	5	0.05	1.75	10	88	0.23	0.24
D00007354	0.435	<5	0.18	1.87	19	119	0.32	0.19
D00007355	0.675	6	0.19	2.00	14	121	0.34	0.31
D00007356	0.550	<5	0.19	1.96	14	89	0.26	0.32
D00007357	0.420	7	0.12	1.74	16	172	0.28	0.25
D00007358	0.465	<5	0.14	1.38	14	132	0.23	0.43
D00007359	0.465	<5	0.11	1.20	13	54	0.27	0.04
D00007360	0.530	5	0.36	1.98	16	86	0.24	0.18
D00007361	0.485	10	0.13	0.94	30	55	0.32	0.05
D00007362	0.450	<5	0.41	2.05	124	177	0.23	0.52
D00007363	0.465	<5	0.18	0.86	20	65	0.29	0.05
D00007364	0.555	<5	0.42	3.30	37	297	0.12	0.48
D00007365	0.630	<5	0.17	2.38	49	244	0.27	0.37
D00007366	0.415	7	0.14	1.83	98	54	0.25	0.42
D00007367	0.365	<5	0.29	1.32	19	130	0.27	0.38

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007368	0.490	<5	0.07	1.80	75	137	0.20	0.23
D00007369	0.710	<5	0.07	1.97	19	162	0.30	0.36
D00007370	0.655	<5	0.07	1.88	10	92	0.23	0.32
D00007371	0.525	<5	0.04	1.24	17	80	0.24	0.35
D00007372	0.385	5	0.19	1.30	14	171	0.35	0.14
D00007373	0.510	<5	0.09	1.55	18	147	0.42	0.17
D00007374	0.610	<5	0.06	1.46	8	61	0.25	0.22
D00007375	0.510	<5	0.06	1.71	10	75	0.25	0.27
D00007376	0.465	6	0.14	1.88	13	124	0.33	0.23
D00007377	0.375	<5	0.27	1.46	12	101	0.27	0.69
D00007378	0.470	<5	0.30	1.33	8	130	0.22	0.26
D00007379	0.500	<5	0.23	1.90	9	100	0.26	0.41
D00007380	0.445	7	0.86	1.22	7	77	1.60	0.19
D00007381	0.395	<5	1.11	1.21	11	98	0.39	0.37
D00007382	0.350	<5	0.46	1.70	12	210	0.32	0.53
D00007383	0.295	<5	0.15	1.70	18	45	0.34	0.26
D00007384	0.420	<5	0.16	1.90	6	110	1.46	0.29
D00007385	0.410	<5	0.10	3.21	3	125	1.03	0.38
D00007386	0.460	<5	0.14	2.61	3	174	0.69	0.71
D00007387	0.360	<5	0.07	0.72	6	42	1.04	0.04
D00007388	0.700	<5	0.04	0.88	5	53	0.63	0.04
D00007389	0.375	<5	0.05	0.94	7	39	3.23	0.04
D00007390	0.630	<5	0.05	0.98	8	63	0.90	0.06
D00007391	0.485	<5	0.07	2.98	5	298	2.23	0.86
D00007392	0.180	<5	0.41	1.76	8	101	1.40	0.62
D00007393	0.745	<5	0.36	2.89	4	232	3.05	0.69
D00007394	0.185	<5	0.06	2.67	3	298	1.14	0.49
D00007395	0.625	<5	0.11	1.10	31	92	2.22	0.13
D00007396	0.455	<5	0.03	2.63	2	230	0.68	0.54
D00007397	0.415	<5	0.13	2.02	4	140	1.87	0.42
D00007398	0.610	<5	0.17	1.71	5	111	1.35	0.40
D00007399	0.485	<5	0.12	2.26	3	147	1.05	0.71
D00007400	0.115	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00007401	0.610	<5	0.18	0.79	4	91	4.37	0.21
D00007402	0.305	<5	0.28	1.05	19	79	2.32	0.32
D00007403	0.300	<5	0.04	2.63	4	138	1.51	0.09
*Std OREAS151B		66						
*Std OXK119		3570						
*Std OREAS151B		66						
*Blk BLANK		<5						

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Final : VC172796 Order: PO# BMC17-01015

Report File No.: 0000024728

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00007352		0.06	1.58	7	65	0.22	0.23
*Rep D00007355		0.19	2.01	14	120	0.36	0.35
*Rep D00007389		0.05	0.96	7	40	3.37	0.04
*Std OREAS920		0.09	2.37	4	69	0.61	0.29
*Std OREAS902		0.29	0.49	618	14	8.93	4.15
*Std OREAS151B		0.51	2.51	31	69	0.40	1.32
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007334	8						
*Rep D00007369	<5						
*Rep D00007388	5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007328	0.11	35.3	7.9	7	6.1	2.06	2.3	<0.01
D00007329	0.45	10.8	2.2	2	2.9	0.52	1.6	<0.01
D00007330	0.38	53.4	6.2	14	27.7	2.46	5.0	0.03
D00007331	0.33	36.2	6.9	16	15.8	3.53	4.6	0.01
D00007332	0.31	26.8	7.7	25	11.0	3.20	5.4	0.02
D00007333	0.40	28.6	17.5	17	50.8	3.87	5.9	0.02
D00007334	0.19	113	6.6	17	16.5	2.44	5.0	0.05
D00007335	0.55	50.5	6.5	15	10.4	2.03	3.4	0.02
D00007336	0.29	33.7	5.2	16	10.7	2.32	5.0	0.02
D00007337	0.16	33.3	5.7	17	10.8	2.14	3.6	0.02
D00007338	0.27	40.6	5.4	17	9.7	1.97	3.5	0.02
D00007339	0.12	29.2	6.0	11	9.7	1.87	2.6	0.01
D00007340	<0.01	0.95	<0.1	<1	0.5	0.02	<0.1	<0.01
D00007341	0.07	37.6	4.7	13	7.9	2.14	3.3	<0.01
D00007342	0.11	30.5	2.4	9	6.4	1.41	5.1	0.03
D00007343	0.18	50.4	8.2	20	15.3	2.23	3.8	0.01
D00007344	0.12	26.3	2.7	8	6.7	1.20	3.9	0.03
D00007345	0.05	48.8	10.0	18	9.6	2.95	3.8	<0.01
D00007346	0.20	27.8	4.3	11	4.8	1.79	4.9	0.01
D00007347	0.10	30.6	7.7	19	8.7	2.47	4.8	<0.01
D00007348	0.16	35.2	10.9	26	16.6	5.65	7.3	0.02
D00007349	0.19	32.2	10.8	25	11.4	2.97	5.4	<0.01
D00007350	0.12	25.3	5.6	20	11.5	2.53	5.5	<0.01
D00007351	0.11	21.8	5.3	15	11.6	3.57	7.1	<0.01
D00007352	0.16	50.1	10.4	25	19.7	3.01	5.5	<0.01
D00007353	0.19	45.6	10.9	36	20.5	3.32	5.7	<0.01
D00007354	0.37	55.6	12.8	32	24.5	3.46	6.4	0.01
D00007355	0.30	65.3	13.8	28	21.1	3.37	6.5	<0.01
D00007356	0.22	45.1	12.8	34	19.3	3.40	6.2	<0.01
D00007357	0.20	58.7	11.6	33	26.3	3.27	5.9	<0.01
D00007358	0.12	35.1	9.1	17	14.2	3.18	5.2	<0.01
D00007359	0.14	27.2	6.3	14	10.1	3.38	6.0	<0.01
D00007360	0.33	45.9	12.2	27	26.0	3.68	5.1	0.03
D00007361	0.21	38.5	5.3	13	10.5	2.91	6.5	<0.01
D00007362	0.46	40.7	10.3	27	24.2	3.75	6.9	0.01
D00007363	0.17	44.9	6.1	10	13.0	2.04	6.4	<0.01
D00007364	0.11	29.6	25.3	42	72.9	6.43	10.6	<0.01
D00007365	0.08	95.5	21.3	24	28.5	4.60	7.6	<0.01
D00007366	0.22	28.6	9.1	26	13.1	4.02	6.7	<0.01
D00007367	0.11	30.4	4.7	14	10.8	2.19	6.3	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007368	0.16	31.1	8.0	25	14.6	3.16	6.2	0.01
D00007369	0.44	88.3	17.7	34	36.1	3.78	6.6	<0.01
D00007370	0.13	65.4	12.2	29	26.1	2.92	6.0	<0.01
D00007371	0.10	23.8	7.9	17	8.2	3.29	4.2	<0.01
D00007372	0.15	56.3	5.7	15	9.0	2.28	5.2	0.03
D00007373	0.12	45.2	6.4	21	8.5	2.99	6.0	<0.01
D00007374	0.11	39.6	6.9	24	16.5	2.71	5.3	<0.01
D00007375	0.25	53.4	10.3	28	29.7	3.25	5.8	<0.01
D00007376	0.49	80.8	15.6	30	40.4	3.70	6.7	0.01
D00007377	0.78	56.7	9.0	20	26.0	2.90	5.5	0.02
D00007378	0.23	47.7	10.2	22	17.9	2.43	4.7	0.02
D00007379	0.31	52.2	17.3	30	24.7	4.34	7.7	<0.01
D00007380	0.62	64.9	19.0	19	141	7.08	4.6	<0.01
D00007381	0.30	50.7	11.6	18	50.3	3.59	4.8	0.03
D00007382	0.23	66.8	13.6	24	30.1	3.06	5.1	0.03
D00007383	0.22	71.4	19.7	26	16.8	4.02	5.4	0.02
D00007384	0.85	199	17.0	12	50.2	4.58	8.5	0.03
D00007385	0.36	202	22.0	43	35.3	6.37	12.5	<0.01
D00007386	0.08	214	18.4	13	118	6.03	9.9	0.03
D00007387	0.09	47.3	5.8	9	21.0	2.22	5.2	0.05
D00007388	0.06	36.8	5.5	17	15.5	2.06	4.7	<0.01
D00007389	0.13	31.6	4.2	9	14.8	2.24	5.1	0.02
D00007390	0.15	146	6.9	13	16.5	2.47	4.4	0.02
D00007391	0.24	125	21.7	13	147	7.61	11.9	0.02
D00007392	1.16	72.5	15.6	42	64.0	4.09	5.7	0.07
D00007393	0.32	90.8	19.8	28	102	6.72	10.5	<0.01
D00007394	0.16	189	18.5	30	78.9	5.96	11.2	0.06
D00007395	0.18	147	7.8	5	120	3.90	5.0	<0.01
D00007396	0.12	108	15.1	30	65.0	5.31	10.6	<0.01
D00007397	0.35	78.0	16.1	27	141	4.93	7.4	0.02
D00007398	0.36	92.7	13.5	21	78.8	4.40	6.7	<0.01
D00007399	0.63	66.5	16.3	23	38.3	5.36	8.4	0.02
D00007400	<0.01	0.97	<0.1	<1	0.6	0.02	<0.1	<0.01
D00007401	0.19	37.5	8.8	11	270	3.40	2.8	<0.01
D00007402	0.22	29.5	7.6	19	46.6	3.02	3.9	0.04
D00007403	0.16	93.3	15.2	35	72.0	5.58	9.6	0.02

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007352	0.14	52.3	9.8	23	19.3	2.90	5.5	<0.01
*Rep D00007355	0.34	65.8	13.9	31	21.9	3.43	6.8	<0.01
*Rep D00007389	0.16	30.0	4.2	10	14.4	2.30	5.1	0.02
*Std OREAS920	0.06	66.3	14.2	39	107	3.69	6.8	<0.01
*Std OREAS902	0.02	30.9	996	19	3010	3.18	1.6	0.04
*Std OREAS151B	0.57	16.6	11.0	26	1830	3.39	7.4	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007328	0.20	16.9	0.23	446	0.94	0.01	9.0	1230
D00007329	0.02	9.2	0.04	188	0.40	0.03	1.5	470
D00007330	0.05	40.2	0.34	1100	2.15	0.02	14.2	2130
D00007331	0.07	16.3	0.30	254	2.02	<0.01	17.0	1010
D00007332	0.08	13.3	0.59	235	1.33	0.01	16.8	570
D00007333	0.05	12.8	0.99	417	0.97	0.01	32.7	1170
D00007334	0.07	65.7	0.48	211	1.49	0.01	16.9	2040
D00007335	0.11	24.4	0.31	241	1.47	0.01	17.2	950
D00007336	0.13	16.4	0.24	203	1.62	0.01	14.0	390
D00007337	0.13	15.8	0.24	216	1.53	0.01	15.1	390
D00007338	0.10	19.0	0.29	217	1.47	0.01	15.4	650
D00007339	0.16	13.8	0.20	235	1.48	0.01	12.9	500
D00007340	<0.01	0.5	<0.01	<2	<0.05	<0.01	<0.5	<50
D00007341	0.18	18.4	0.26	269	1.10	0.01	11.1	610
D00007342	0.14	15.5	0.11	112	1.28	0.01	6.5	580
D00007343	0.20	29.4	0.55	278	0.94	0.01	21.0	920
D00007344	0.11	13.2	0.09	81	1.09	0.01	5.9	330
D00007345	0.26	24.2	0.53	192	1.18	0.01	11.7	790
D00007346	0.13	14.3	0.30	207	0.98	<0.01	7.3	360
D00007347	0.10	16.1	0.67	224	0.98	0.01	15.4	780
D00007348	0.08	16.5	0.70	386	1.40	<0.01	27.4	910
D00007349	0.15	15.7	0.84	502	1.00	<0.01	16.7	1370
D00007350	0.10	13.1	0.60	185	0.89	<0.01	12.5	680
D00007351	0.08	11.4	0.42	271	1.61	<0.01	10.8	400
D00007352	0.17	23.9	0.85	304	0.99	0.01	18.7	1110
D00007353	0.17	22.5	1.00	300	1.28	0.01	24.9	1120
D00007354	0.17	28.1	0.91	545	1.30	0.01	27.0	860
D00007355	0.14	23.1	0.89	295	1.08	0.01	26.5	730
D00007356	0.12	22.3	0.96	381	0.93	0.01	30.1	860
D00007357	0.17	30.7	0.82	401	1.06	0.01	28.3	880
D00007358	0.25	15.8	0.55	376	1.46	0.01	14.6	800
D00007359	0.22	13.4	0.43	198	1.41	0.01	11.1	400
D00007360	0.07	21.4	0.73	360	1.48	0.01	26.0	1060
D00007361	0.09	18.3	0.29	217	1.21	0.01	10.2	450
D00007362	0.06	22.7	0.87	545	0.96	0.01	21.2	770
D00007363	0.09	21.8	0.29	173	1.51	0.01	8.8	390
D00007364	0.04	12.2	1.98	487	1.27	0.01	54.9	1010
D00007365	0.10	48.4	1.07	680	0.80	0.01	34.2	760
D00007366	0.08	12.9	0.81	247	1.05	0.01	20.1	630
D00007367	0.07	17.8	0.39	183	0.98	0.01	10.5	660

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007368	0.05	13.5	0.76	233	0.84	0.01	18.2	820
D00007369	0.20	43.8	1.03	763	1.26	0.01	33.9	980
D00007370	0.12	31.5	0.89	220	0.79	0.01	23.9	1210
D00007371	0.09	11.9	0.49	307	0.71	0.01	11.7	840
D00007372	0.10	27.4	0.37	696	1.70	0.01	8.7	1130
D00007373	0.15	23.4	0.58	479	1.47	0.01	12.1	810
D00007374	0.18	20.5	0.78	274	0.89	0.01	15.1	1090
D00007375	0.35	28.2	0.99	365	1.27	0.01	23.1	1280
D00007376	0.14	42.9	0.92	845	1.46	0.01	32.7	1180
D00007377	0.07	59.1	0.68	428	1.37	0.01	22.4	680
D00007378	0.06	22.4	0.60	522	1.05	0.02	22.2	730
D00007379	0.11	23.9	1.02	686	1.52	0.01	30.0	1130
D00007380	0.08	35.6	0.50	942	19.8	0.01	45.6	1560
D00007381	0.08	32.4	0.54	469	4.32	0.01	28.9	820
D00007382	0.06	55.9	0.70	458	1.23	0.01	30.3	1070
D00007383	0.05	25.7	0.73	502	1.28	<0.01	28.6	670
D00007384	0.70	124	1.16	1690	3.34	0.01	9.8	1160
D00007385	1.39	95.6	2.04	1840	3.90	0.02	16.0	1090
D00007386	1.01	96.5	1.60	1640	11.3	0.01	8.1	1340
D00007387	0.20	21.9	0.23	221	4.66	0.01	6.5	820
D00007388	0.33	15.5	0.43	250	2.08	0.01	9.4	480
D00007389	0.15	12.4	0.32	255	2.98	0.01	8.5	480
D00007390	0.15	44.7	0.34	733	5.35	0.01	10.3	520
D00007391	1.45	60.6	1.62	1850	4.48	0.02	14.8	2900
D00007392	0.46	47.3	1.07	1310	3.62	0.02	30.7	990
D00007393	1.49	42.2	1.75	1220	3.91	0.01	17.6	2290
D00007394	1.17	91.4	1.58	1150	4.06	0.02	18.7	970
D00007395	0.47	71.1	0.52	521	5.22	0.01	5.5	600
D00007396	1.23	57.1	1.60	814	2.93	0.01	14.9	1600
D00007397	0.87	42.2	1.17	828	5.21	0.01	14.4	1140
D00007398	0.73	50.2	1.01	863	4.05	0.01	15.6	1440
D00007399	0.95	35.1	1.25	1170	5.12	0.02	21.3	2180
D00007400	<0.01	0.5	<0.01	<2	0.07	<0.01	<0.5	<50
D00007401	0.41	18.7	0.38	673	3.31	0.01	9.2	800
D00007402	0.20	17.0	0.45	585	4.45	0.01	11.4	1000
D00007403	0.74	54.7	1.16	1080	3.60	0.01	16.7	990

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007352	0.16	25.3	0.84	298	0.88	0.01	17.8	1060
*Rep D00007355	0.14	23.6	0.94	299	1.10	0.01	28.3	810
*Rep D00007389	0.14	11.4	0.32	276	2.93	0.01	9.1	500
*Std OREAS920	0.40	33.4	1.17	514	0.41	0.03	38.5	760
*Std OREAS902	0.25	14.6	2.26	484	12.0	0.02	168	730
*Std OREAS151B	0.41	7.2	1.53	289	56.1	0.16	14.6	580
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007328	24.4	25.4	0.14	1.2	<0.3	13.7	3.1	0.04
D00007329	10.8	2.7	0.06	0.2	<0.3	5.8	0.4	0.01
D00007330	24.3	9.2	0.14	1.2	<0.3	27.0	1.9	0.02
D00007331	38.3	11.6	0.43	1.5	<0.3	7.6	2.7	0.03
D00007332	18.4	14.1	0.39	2.7	0.4	13.2	4.7	0.07
D00007333	50.8	6.7	0.41	4.2	<0.3	49.2	4.3	0.02
D00007334	18.1	10.5	0.23	1.9	<0.3	22.5	4.0	0.02
D00007335	32.8	12.1	0.63	1.5	<0.3	11.0	4.2	0.04
D00007336	28.5	15.3	0.65	0.8	0.4	5.5	1.0	0.05
D00007337	34.7	13.9	0.61	0.7	<0.3	5.3	0.7	0.04
D00007338	13.6	9.6	0.61	1.1	<0.3	8.0	2.0	0.04
D00007339	7.9	14.7	0.40	1.1	<0.3	6.9	3.2	0.04
D00007340	0.4	<0.2	<0.05	<0.1	<0.3	0.5	0.3	<0.01
D00007341	7.2	18.5	0.40	1.3	<0.3	6.6	3.8	0.06
D00007342	18.9	17.3	0.46	0.5	0.4	4.9	0.7	0.05
D00007343	15.4	17.8	0.42	2.7	<0.3	16.3	8.0	0.09
D00007344	8.7	12.6	0.36	0.6	0.4	3.4	1.1	0.06
D00007345	16.7	23.3	0.20	2.8	<0.3	12.3	7.6	0.08
D00007346	19.2	14.4	0.13	1.3	0.3	5.0	1.8	0.05
D00007347	13.2	11.8	0.18	2.5	<0.3	11.6	4.5	0.04
D00007348	22.7	11.1	0.23	2.1	<0.3	6.0	5.9	0.07
D00007349	17.6	25.6	0.16	2.6	<0.3	10.9	4.2	0.07
D00007350	18.0	12.7	0.15	1.9	<0.3	5.5	3.7	0.07
D00007351	19.0	11.3	0.23	1.8	0.6	2.8	5.5	0.15
D00007352	23.5	18.3	0.20	3.0	<0.3	9.6	9.2	0.08
D00007353	17.3	17.6	0.18	2.8	<0.3	9.9	6.8	0.11
D00007354	30.9	21.5	0.26	3.7	0.4	9.6	9.0	0.10
D00007355	32.9	21.2	0.30	3.3	0.4	14.7	11.9	0.09
D00007356	40.8	15.7	0.28	3.3	0.3	10.5	9.2	0.07
D00007357	21.9	22.5	0.36	4.0	0.4	11.6	10.1	0.11
D00007358	27.0	34.8	0.28	2.8	0.3	14.3	8.2	0.12
D00007359	16.9	28.0	0.29	2.1	0.4	3.6	6.4	0.15
D00007360	29.3	11.1	0.30	2.5	<0.3	7.8	9.1	0.05
D00007361	18.8	12.3	0.23	1.6	0.5	5.5	5.6	0.07
D00007362	84.5	9.3	0.46	3.8	<0.3	23.3	5.1	0.02
D00007363	19.4	16.6	0.15	1.4	0.4	5.7	3.0	0.06
D00007364	24.5	8.4	0.21	7.1	<0.3	25.3	3.7	0.05
D00007365	18.1	11.2	0.10	4.1	<0.3	14.2	15.2	<0.01
D00007366	63.2	10.7	0.26	3.0	0.3	17.9	5.3	0.05
D00007367	23.4	14.2	0.21	0.8	0.4	19.9	0.4	0.04

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007368	18.6	7.9	0.16	1.3	<0.3	11.5	0.5	0.03
D00007369	29.3	23.7	0.31	4.8	<0.3	14.8	13.5	0.10
D00007370	31.6	17.2	0.22	3.0	<0.3	11.2	10.9	0.06
D00007371	16.6	14.3	0.16	1.5	<0.3	15.2	2.1	0.04
D00007372	11.8	20.2	0.12	1.4	0.3	10.6	2.8	0.03
D00007373	14.9	32.7	0.14	1.9	0.4	11.3	3.6	0.06
D00007374	18.6	18.9	0.13	2.7	<0.3	9.1	5.4	0.08
D00007375	19.1	28.5	0.20	3.7	<0.3	11.0	9.1	0.12
D00007376	54.6	16.1	0.36	4.4	<0.3	10.6	9.7	0.07
D00007377	39.7	12.5	0.12	2.2	<0.3	33.1	4.5	0.02
D00007378	29.4	7.9	0.20	2.3	<0.3	13.1	4.5	0.03
D00007379	45.6	13.7	0.21	7.4	<0.3	21.5	7.0	0.05
D00007380	829	10.5	1.49	1.6	<0.3	30.1	9.2	0.02
D00007381	133	11.5	0.33	1.2	<0.3	20.8	1.2	0.02
D00007382	30.0	6.8	0.25	2.6	<0.3	26.4	7.6	0.02
D00007383	44.1	6.0	0.22	2.1	<0.3	14.2	6.8	0.03
D00007384	28.0	84.9	0.12	6.3	0.6	32.3	21.2	0.25
D00007385	66.1	201	0.13	10.4	1.1	31.8	22.4	0.46
D00007386	23.0	138	0.10	5.5	1.1	31.3	44.0	0.41
D00007387	8.4	22.6	0.31	0.9	0.6	6.4	2.5	0.10
D00007388	9.9	35.1	0.21	1.5	0.4	4.5	3.9	0.10
D00007389	111	19.1	0.42	0.7	0.4	6.2	2.4	0.05
D00007390	24.3	18.7	0.26	1.1	0.3	16.8	9.6	0.03
D00007391	25.7	131	0.15	11.6	0.6	51.1	19.8	0.53
D00007392	89.7	76.6	0.21	4.8	0.4	32.9	9.8	0.15
D00007393	60.9	141	0.07	10.9	1.0	30.7	21.8	0.46
D00007394	11.2	97.7	0.08	7.9	0.9	25.0	22.0	0.38
D00007395	19.6	50.4	0.12	2.0	0.8	29.7	26.8	0.10
D00007396	10.6	91.9	0.09	7.6	0.8	25.5	20.3	0.36
D00007397	42.5	93.4	0.08	6.8	0.8	22.5	21.4	0.28
D00007398	36.1	72.9	0.13	5.4	0.6	21.6	19.6	0.24
D00007399	35.5	90.8	0.14	8.3	0.5	35.4	14.9	0.33
D00007400	0.5	<0.2	<0.05	<0.1	<0.3	0.6	<0.1	<0.01
D00007401	23.5	38.2	0.08	2.3	<0.3	37.3	20.8	0.07
D00007402	40.8	28.0	0.11	2.2	<0.3	22.9	7.0	0.05
D00007403	29.4	94.8	0.19	7.5	0.9	11.1	16.5	0.30

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007352	22.7	17.4	0.19	3.0	<0.3	9.3	9.4	0.08
*Rep D00007355	34.4	21.4	0.31	3.5	0.4	15.3	12.3	0.09
*Rep D00007389	112	19.0	0.39	0.7	0.5	6.4	2.4	0.05
*Std OREAS920	19.5	22.5	0.60	2.5	0.8	15.8	15.4	0.10
*Std OREAS902	9.8	8.8	0.79	2.7	<0.3	21.1	5.5	<0.01
*Std OREAS151B	38.2	19.6	0.51	8.8	0.9	35.8	2.6	0.08
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007328	0.24	0.67	26	<0.1	7.93	50
D00007329	0.03	0.69	10	<0.1	4.14	28
D00007330	0.07	2.12	36	0.1	15.0	141
D00007331	0.12	0.81	47	0.2	4.41	305
D00007332	0.11	0.58	50	0.4	4.67	74
D00007333	0.05	0.45	63	0.3	5.81	152
D00007334	0.11	3.10	32	0.4	23.3	234
D00007335	0.15	1.09	31	0.3	7.33	227
D00007336	0.12	0.75	46	0.3	3.07	75
D00007337	0.13	0.90	34	0.3	3.87	117
D00007338	0.09	0.89	32	0.6	5.76	61
D00007339	0.13	0.73	20	0.2	4.70	44
D00007340	<0.02	0.08	<1	<0.1	0.61	1
D00007341	0.15	0.70	24	0.3	6.33	38
D00007342	0.11	0.97	35	0.4	2.77	30
D00007343	0.18	0.92	39	0.3	10.5	63
D00007344	0.10	0.58	33	0.3	2.24	26
D00007345	0.22	0.78	42	0.1	8.02	49
D00007346	0.12	0.40	44	0.2	2.57	43
D00007347	0.09	0.53	41	0.1	5.92	70
D00007348	0.09	0.63	64	0.2	5.33	118
D00007349	0.15	0.85	45	0.2	7.24	160
D00007350	0.11	0.55	39	0.1	4.63	90
D00007351	0.09	0.56	56	0.2	3.81	78
D00007352	0.17	0.85	43	0.2	8.10	152
D00007353	0.20	0.82	48	0.1	7.75	122
D00007354	0.20	1.02	50	0.2	11.2	175
D00007355	0.19	1.46	46	0.2	8.83	134
D00007356	0.16	0.92	43	0.2	7.84	155
D00007357	0.22	1.25	50	0.2	12.1	117
D00007358	0.33	0.89	43	0.2	7.32	92
D00007359	0.23	0.67	53	0.2	4.57	68
D00007360	0.13	0.82	39	0.1	8.01	111
D00007361	0.08	0.65	51	0.3	4.27	47
D00007362	0.08	0.60	48	0.2	10.3	219
D00007363	0.09	0.54	44	0.2	4.51	49
D00007364	0.08	0.49	126	<0.1	6.49	137
D00007365	0.08	0.89	34	<0.1	15.1	105
D00007366	0.10	0.61	50	0.2	5.33	96
D00007367	0.15	0.80	43	0.2	5.95	55

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007368	0.10	0.54	38	<0.1	5.70	76
D00007369	0.23	1.31	51	0.2	17.1	177
D00007370	0.18	1.20	41	0.1	8.92	175
D00007371	0.13	0.57	35	0.2	4.65	66
D00007372	0.21	3.90	28	0.1	10.5	64
D00007373	0.22	2.61	34	0.3	9.34	94
D00007374	0.16	0.79	42	0.1	7.45	105
D00007375	0.23	1.29	48	0.1	11.6	145
D00007376	0.16	1.66	47	0.2	18.3	235
D00007377	0.06	2.60	31	<0.1	24.0	192
D00007378	0.09	1.18	34	0.2	7.70	126
D00007379	0.14	1.32	87	0.1	10.6	171
D00007380	0.09	5.61	35	0.2	14.9	253
D00007381	0.09	2.52	35	0.1	13.5	153
D00007382	0.08	1.55	28	0.3	22.0	183
D00007383	0.06	0.72	32	0.2	8.44	154
D00007384	0.98	9.20	66	0.1	30.3	190
D00007385	1.49	7.53	102	0.2	27.3	180
D00007386	0.93	7.41	43	0.1	48.3	60
D00007387	0.16	1.96	42	0.2	4.47	36
D00007388	0.23	1.80	30	0.1	3.62	39
D00007389	0.26	2.60	25	0.2	6.13	73
D00007390	0.18	4.52	23	0.2	11.2	91
D00007391	0.76	5.25	116	0.1	23.5	167
D00007392	0.63	6.82	47	0.1	22.2	247
D00007393	0.84	6.57	100	0.1	23.8	124
D00007394	0.59	3.79	66	<0.1	23.1	91
D00007395	0.37	7.50	22	<0.1	11.8	114
D00007396	0.55	2.56	68	0.2	16.4	102
D00007397	0.73	7.29	58	<0.1	14.5	159
D00007398	0.53	5.96	51	<0.1	18.7	153
D00007399	0.67	6.67	81	0.1	21.9	301
D00007400	<0.02	0.07	<1	<0.1	0.62	1
D00007401	0.40	6.76	21	<0.1	10.6	94
D00007402	0.21	4.53	34	<0.1	9.63	125
D00007403	0.63	6.40	78	0.1	17.1	136

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Final : VC172796 Order: PO# BMC17-01015

Report File No.: 0000024728

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007352	0.16	0.83	41	0.1	8.10	145
*Rep D00007355	0.20	1.46	46	0.3	9.71	142
*Rep D00007389	0.26	2.70	26	0.2	6.20	73
*Std OREAS920	0.15	2.07	22	0.4	16.8	110
*Std OREAS902	0.25	2.45	11	2.3	8.19	7
*Std OREAS151B	0.13	0.67	146	0.7	11.5	244
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172798
[Report File No.: 0000024805]

Date: September 20, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01015
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007404	0.335	<5	0.16	1.81	10	135	1.35	0.39
D00007405	0.395	<5	0.18	1.45	11	102	1.27	0.38
D00007406	0.275	<5	0.14	1.27	7	91	1.01	0.23
D00007407	0.380	<5	0.17	1.88	6	167	0.90	0.39
D00007408	0.410	<5	0.38	2.14	10	86	1.93	0.53
D00007409	0.620	<5	0.26	1.98	21	92	0.59	0.56
D00007410	0.460	<5	0.04	2.47	9	57	0.25	0.34
D00007411	0.445	<5	0.05	3.44	2	336	0.07	0.70
D00007412	0.450	<5	0.04	2.48	7	139	0.38	0.54
D00007413	0.300	<5	0.05	0.91	9	66	0.23	0.15
D00007414	0.425	<5	0.04	2.18	19	147	0.45	0.27
D00007415	0.460	<5	0.09	1.94	12	103	0.49	0.30
D00007416	0.700	<5	0.18	2.02	26	113	0.57	0.37
D00007417	0.525	<5	0.48	2.04	24	173	1.03	0.26
D00007418	0.540	<5	0.04	1.98	11	124	0.34	0.29
D00007419	0.455	<5	0.12	2.10	27	150	0.52	0.24
D00007420	0.415	<5	0.13	2.16	27	148	0.53	0.24
D00007421	0.500	<5	0.07	1.12	9	65	0.46	0.09
D00007422	0.410	<5	0.11	1.66	19	88	0.32	0.14
D00007423	0.520	<5	0.29	1.98	22	251	0.47	0.32
D00007424	0.330	<5	0.07	0.96	8	59	0.81	0.04
D00007425	0.460	<5	0.03	1.05	6	79	0.18	0.12
D00007426	0.530	<5	0.05	1.09	7	98	0.16	0.19
D00007427	0.500	<5	0.04	0.91	4	110	0.22	0.20
D00007428	0.605	<5	0.05	0.61	5	68	0.31	0.05
D00007429	0.465	<5	0.04	1.28	8	213	0.19	0.25
D00007430	0.570	<5	0.07	1.26	7	145	0.24	0.30
D00007431	0.560	<5	0.04	1.26	9	78	0.22	0.15
D00007432	0.525	<5	0.04	1.34	8	93	0.18	0.23
D00007433	0.420	<5	0.08	1.02	9	86	0.27	0.13
D00007434	0.530	<5	0.07	1.17	6	168	0.22	0.23
D00007435	0.425	<5	0.04	1.29	9	187	0.21	0.26
D00007436	0.390	<5	0.07	1.13	6	118	0.19	0.41
D00007437	0.470	<5	0.06	0.96	7	94	0.26	0.18
D00007438	0.485	<5	0.04	2.16	8	245	0.21	0.55
D00007439	0.385	<5	0.08	1.82	10	261	0.17	0.37
D00007440	0.430	<5	0.08	1.78	9	255	0.17	0.39
D00007441	0.305	<5	0.05	1.99	3	295	0.13	0.58
D00007442	0.525	<5	0.08	0.98	12	102	0.23	0.14
D00007443	0.170	<5	0.14	1.37	14	195	0.26	0.23

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007444	0.550	<5	0.11	0.95	21	162	0.16	0.28
D00007445	0.650	<5	0.05	0.86	7	157	0.21	0.27
D00007446	0.505	<5	0.07	1.09	10	107	0.22	0.17
D00007447	0.325	<5	0.06	1.39	16	235	0.21	0.30
D00007448	0.530	<5	0.08	0.96	15	109	0.23	0.16
D00007449	0.105	<5	0.37	0.95	21	259	0.36	0.55
D00007450	0.390	<5	0.16	0.79	16	49	0.32	0.11
D00007451	0.130	<5	0.12	1.94	20	250	0.30	0.76
D00007452	0.325	<5	0.15	0.61	9	71	0.42	0.14
D00007453	0.250	<5	0.16	0.35	4	42	0.16	0.04
D00007454	0.350	<5	0.05	0.43	10	49	0.25	0.14
D00007455	0.200	<5	0.05	0.21	<1	13	<0.02	0.02
D00007456	0.435	6	0.51	0.76	4	85	0.13	0.66
D00007457	0.395	<5	0.07	1.22	19	36	0.39	0.10
D00007458	0.595	<5	0.18	1.88	22	120	0.33	0.40
D00007459	0.400	<5	0.22	1.86	71	165	0.76	0.42
D00007460	0.410	<5	0.12	2.19	41	200	0.45	0.53
D00007461	0.355	<5	0.06	1.38	64	47	0.63	0.13
D00007462	0.430	<5	0.05	3.58	7	197	0.13	0.87
D00007463	0.495	<5	0.21	1.01	108	97	0.42	0.40
D00007464	0.250	7	0.15	1.88	43	203	0.42	0.67
D00007465	0.540	<5	0.05	3.06	12	211	0.19	0.83
D00007466	0.520	8	0.05	2.43	3	310	0.11	0.80
D00007467	0.335	<5	0.13	1.47	14	182	0.36	0.50
D00007468	0.275	<5	0.07	1.10	6	176	0.30	0.30
D00007469	0.260	11	0.22	1.51	10	135	0.29	0.64
D00007470	0.365	<5	0.06	2.50	3	335	0.14	0.56
D00007471	0.295	9	0.15	2.41	42	265	0.21	0.78
D00007472	0.440	<5	0.08	3.56	19	178	0.21	0.84
D00007473	0.445	<5	0.10	3.03	13	375	0.19	0.89
D00007474	0.345	6	0.14	1.89	14	165	0.24	0.43
D00007902	0.605	<5	0.42	1.33	12	154	0.36	0.47
D00007903	0.660	<5	0.05	1.62	3	117	0.32	0.36
D00007904	0.310	<5	0.10	0.75	3	102	0.16	0.21
D00007905	0.455	<5	0.12	1.51	4	97	0.25	0.31
D00007906	0.305	<5	0.40	1.29	3	130	0.21	0.36
*Std OREAS151B		64						
*Std OXK119		3600						
*Std OREAS151B		69						
*Blk BLANK		<5						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00007426		0.06	1.14	7	101	0.16	0.19
*Rep D00007452		0.18	0.62	9	72	0.42	0.16
*Rep D00007464		0.13	1.81	42	200	0.43	0.67
*Std OREAS920		0.09	2.50	5	85	0.69	0.35
*Std OREAS151B		0.57	2.61	34	74	0.41	1.34
*Std OREAS902		0.28	0.54	613	15	8.72	3.91
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007409	<5						
*Rep D00007448	<5						
*Rep D00007903	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007404	0.48	67.8	13.7	26	63.6	4.74	7.5	0.02
D00007405	0.33	54.6	12.0	18	53.9	4.08	6.2	0.02
D00007406	0.27	42.8	8.2	14	38.4	2.87	5.3	0.02
D00007407	0.76	63.9	13.2	30	52.0	4.40	7.8	0.02
D00007408	2.21	61.0	19.6	62	82.7	4.65	7.0	<0.01
D00007409	0.53	73.3	14.5	33	19.1	3.91	7.6	0.02
D00007410	0.18	46.9	17.8	31	19.3	5.47	10.2	<0.01
D00007411	0.08	20.9	26.4	40	18.4	7.58	11.1	<0.01
D00007412	0.21	45.3	21.2	31	18.7	5.88	8.9	0.02
D00007413	0.06	79.5	4.2	8	9.7	1.77	3.9	<0.01
D00007414	0.41	40.5	16.2	31	20.5	5.29	9.4	<0.01
D00007415	0.30	61.2	12.8	31	16.6	3.42	7.0	<0.01
D00007416	0.43	81.9	15.0	44	47.6	4.37	7.7	<0.01
D00007417	0.49	188	18.7	40	54.7	4.72	8.5	0.03
D00007418	0.25	123	11.9	33	23.0	4.33	8.6	<0.01
D00007419	0.43	54.9	18.2	52	55.2	4.63	7.8	<0.01
D00007420	0.44	55.7	18.9	54	55.5	4.76	8.1	<0.01
D00007421	0.18	19.7	6.8	19	13.4	3.49	9.0	<0.01
D00007422	0.19	39.9	10.0	32	27.5	3.62	6.0	0.02
D00007423	0.29	129	12.5	28	21.4	3.82	7.2	0.01
D00007424	0.18	29.9	3.9	15	13.5	2.17	6.2	0.01
D00007425	0.07	33.0	4.3	17	9.8	2.42	4.4	0.02
D00007426	0.12	58.2	5.4	20	11.9	2.26	4.3	<0.01
D00007427	0.05	37.5	4.9	14	13.0	2.44	3.6	0.01
D00007428	0.06	41.1	2.9	9	6.6	1.71	4.1	0.02
D00007429	0.13	102	9.0	22	13.4	2.89	5.4	<0.01
D00007430	0.18	96.3	7.3	19	12.4	2.90	5.7	0.01
D00007431	0.30	50.3	6.5	24	11.0	2.80	5.5	<0.01
D00007432	0.37	55.7	7.2	26	10.4	2.34	4.6	0.01
D00007433	0.16	49.1	5.7	15	9.1	2.66	4.3	0.03
D00007434	0.10	64.0	6.5	20	10.4	2.31	4.7	<0.01
D00007435	0.14	103	7.5	23	12.9	2.75	5.9	<0.01
D00007436	0.10	50.8	8.1	11	9.3	2.93	4.7	0.02
D00007437	0.31	46.4	4.6	15	8.9	2.34	4.3	0.03
D00007438	0.16	73.8	14.5	23	14.0	4.60	9.0	<0.01
D00007439	0.19	67.5	15.2	29	19.3	3.99	6.8	0.02
D00007440	0.20	66.3	15.3	29	19.4	3.98	6.8	0.02
D00007441	0.08	32.3	14.3	36	11.5	3.84	7.0	<0.01
D00007442	0.36	48.7	6.6	15	11.2	2.88	4.2	<0.01
D00007443	0.62	69.3	13.0	19	13.7	3.20	5.9	0.04

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007444	0.38	60.7	9.3	15	13.0	2.32	3.5	<0.01
D00007445	0.11	80.4	5.3	10	8.0	2.11	4.2	<0.01
D00007446	0.21	101	5.8	21	10.1	2.49	5.3	0.02
D00007447	0.32	113	9.2	20	11.1	3.35	6.4	0.02
D00007448	0.22	75.0	4.0	11	8.8	2.28	5.7	<0.01
D00007449	1.04	92.7	8.6	13	15.5	2.82	4.2	0.06
D00007450	0.18	46.8	4.3	11	9.3	2.29	4.5	0.02
D00007451	0.71	57.6	15.2	27	13.5	4.20	7.4	0.03
D00007452	0.70	40.7	4.9	10	6.8	1.70	3.7	0.07
D00007453	0.11	26.9	1.9	1	4.2	0.78	2.6	0.03
D00007454	0.24	26.7	4.4	8	7.8	1.61	2.9	0.02
D00007455	0.05	2.11	0.4	1	1.8	0.20	1.0	<0.01
D00007456	0.41	29.6	4.8	9	14.5	1.47	3.3	0.03
D00007457	0.14	24.5	6.3	21	7.7	2.93	6.5	0.01
D00007458	0.32	63.8	14.7	43	22.9	3.86	6.9	<0.01
D00007459	0.15	65.5	15.2	47	16.6	4.60	7.7	0.02
D00007460	0.08	34.8	14.2	37	13.6	4.95	8.6	<0.01
D00007461	0.12	52.2	9.7	26	10.4	3.59	7.4	<0.01
D00007462	0.13	37.5	25.0	43	13.2	7.20	12.7	<0.01
D00007463	0.50	163	9.7	11	17.5	3.71	5.2	0.01
D00007464	0.49	64.9	14.5	43	14.5	4.44	7.5	0.04
D00007465	0.24	69.0	24.9	79	31.7	6.33	10.4	<0.01
D00007466	0.19	52.9	19.0	47	17.8	5.16	8.7	<0.01
D00007467	0.84	62.7	13.5	18	18.5	3.89	5.5	0.03
D00007468	0.25	159	7.0	9	9.7	2.93	5.3	0.02
D00007469	0.57	72.1	13.2	27	15.6	3.73	5.9	0.04
D00007470	0.17	38.8	18.3	47	15.7	5.16	8.5	<0.01
D00007471	0.42	58.1	16.2	48	15.9	4.94	8.6	<0.01
D00007472	0.26	47.4	29.4	121	28.4	6.49	10.6	<0.01
D00007473	0.42	57.8	23.6	43	18.6	6.13	11.0	<0.01
D00007474	0.12	38.9	12.6	48	15.3	4.24	8.0	0.02
D00007902	1.04	47.4	22.0	36	26.0	2.87	5.1	0.03
D00007903	0.25	38.2	9.6	41	20.9	2.39	6.4	<0.01
D00007904	0.59	19.3	3.0	14	7.5	1.16	3.5	0.02
D00007905	0.84	61.0	6.4	36	10.3	2.01	6.0	<0.01
D00007906	0.19	48.3	3.2	28	11.3	1.34	5.0	0.05

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007426	0.12	59.8	5.6	21	12.5	2.33	4.4	0.01
*Rep D00007452	0.77	43.2	4.9	9	7.7	1.73	3.7	0.07
*Rep D00007464	0.49	64.6	13.9	42	14.1	4.42	7.4	0.05
*Std OREAS920	0.07	68.4	14.8	43	107	3.87	7.6	<0.01
*Std OREAS151B	0.58	15.6	11.7	27	1860	3.62	8.2	<0.01
*Std OREAS902	0.02	29.7	990	21	2870	3.24	1.8	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007404	0.67	42.2	1.12	1180	3.92	0.02	16.6	890
D00007405	0.49	34.2	0.83	894	4.08	0.02	12.6	830
D00007406	0.41	27.0	0.67	704	2.89	0.02	9.2	710
D00007407	0.61	40.5	1.21	555	2.67	0.02	16.6	890
D00007408	0.78	38.1	1.81	915	2.56	0.02	33.7	940
D00007409	0.71	45.3	1.43	1050	3.63	0.02	15.3	620
D00007410	1.52	26.1	1.83	641	2.03	0.01	14.2	1320
D00007411	1.89	12.9	2.04	1040	1.03	0.02	19.3	2100
D00007412	1.41	25.5	1.60	855	1.57	0.02	18.7	1680
D00007413	0.16	45.9	0.28	231	1.29	0.03	5.5	660
D00007414	0.21	23.4	0.93	522	2.58	0.02	23.6	1230
D00007415	0.16	35.8	0.96	350	1.88	0.01	20.8	1420
D00007416	0.34	55.1	1.33	599	3.92	0.01	32.1	1810
D00007417	0.52	150	1.37	1430	2.66	0.01	39.3	1260
D00007418	0.76	70.7	1.22	588	2.03	0.01	21.9	1290
D00007419	0.18	26.5	1.33	782	2.07	0.02	34.7	1530
D00007420	0.18	26.8	1.36	819	2.19	0.02	35.3	1500
D00007421	0.12	10.1	0.65	210	2.14	0.01	12.7	500
D00007422	0.24	21.0	0.90	343	1.33	0.02	15.8	640
D00007423	0.38	103	0.83	353	1.27	0.01	21.7	1430
D00007424	0.11	14.9	0.32	262	2.08	0.01	6.8	510
D00007425	0.21	18.7	0.33	207	1.35	0.01	12.7	590
D00007426	0.16	32.3	0.39	259	1.18	0.01	17.6	670
D00007427	0.26	21.4	0.30	403	1.53	0.02	12.4	610
D00007428	0.29	22.7	0.12	297	2.08	0.01	5.7	290
D00007429	0.36	36.3	0.45	557	1.40	0.02	18.7	810
D00007430	0.36	57.4	0.54	385	1.23	0.01	16.1	1100
D00007431	0.18	26.4	0.41	275	1.46	0.02	15.9	460
D00007432	0.13	31.3	0.48	222	1.01	0.02	20.6	810
D00007433	0.27	26.9	0.29	233	1.42	0.01	12.4	610
D00007434	0.25	37.5	0.40	339	1.26	0.02	15.2	780
D00007435	0.24	55.7	0.45	303	1.54	0.02	18.6	940
D00007436	0.57	28.5	0.54	320	1.03	0.01	11.9	1060
D00007437	0.20	23.7	0.33	373	1.11	0.01	12.4	810
D00007438	1.12	35.9	1.22	644	1.05	0.01	14.0	1640
D00007439	0.61	39.3	0.83	643	1.40	0.01	20.8	1120
D00007440	0.64	39.0	0.84	624	1.42	0.02	21.0	1080
D00007441	0.68	19.4	1.18	589	0.89	0.02	15.3	780
D00007442	0.22	25.7	0.29	492	1.55	0.01	12.5	510
D00007443	0.39	39.3	0.53	782	1.45	0.01	13.2	1010

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007444	0.24	35.7	0.37	477	1.08	0.01	15.6	1130
D00007445	0.37	47.2	0.33	224	1.20	0.01	9.2	820
D00007446	0.18	50.8	0.36	218	1.25	0.02	15.5	660
D00007447	0.58	48.8	0.60	399	1.25	0.02	13.9	910
D00007448	0.29	37.9	0.30	267	1.02	0.01	9.7	620
D00007449	0.34	77.0	0.39	878	1.63	0.01	17.2	900
D00007450	0.34	22.1	0.33	196	1.51	0.01	9.2	640
D00007451	0.98	46.5	1.08	1080	1.13	0.02	19.0	1180
D00007452	0.33	22.0	0.21	456	1.59	0.02	5.8	580
D00007453	0.21	14.0	0.08	63	0.87	0.01	2.9	390
D00007454	0.22	14.5	0.11	164	1.19	0.01	7.6	550
D00007455	0.03	1.2	0.01	23	0.12	0.04	0.5	220
D00007456	0.12	40.0	0.29	290	0.81	0.03	9.5	900
D00007457	0.17	12.6	0.49	212	1.56	0.01	9.2	590
D00007458	0.57	37.0	1.12	448	1.35	<0.01	25.9	1320
D00007459	0.58	35.4	1.08	465	1.27	<0.01	24.8	780
D00007460	0.57	20.3	1.15	668	1.70	<0.01	12.6	840
D00007461	0.26	27.3	0.60	275	1.32	<0.01	14.5	750
D00007462	1.51	25.7	2.11	1240	1.35	<0.01	15.7	1300
D00007463	0.45	72.5	0.48	569	2.26	<0.01	15.4	1310
D00007464	0.47	40.0	0.90	943	2.40	<0.01	16.2	990
D00007465	1.25	40.4	1.88	1380	1.40	<0.01	30.8	1730
D00007466	1.03	30.6	1.54	811	1.25	<0.01	18.5	1610
D00007467	0.34	36.8	0.63	1770	1.66	<0.01	15.5	790
D00007468	0.36	69.9	0.34	695	1.34	<0.01	8.4	820
D00007469	0.51	46.3	0.75	717	1.91	<0.01	16.3	910
D00007470	0.89	24.8	1.48	866	1.39	<0.01	17.5	1300
D00007471	1.04	41.0	1.39	689	1.21	<0.01	22.5	1440
D00007472	1.48	30.8	2.37	1190	1.08	<0.01	46.9	1130
D00007473	1.40	34.3	1.82	1090	1.39	<0.01	18.6	2010
D00007474	0.63	23.1	1.10	515	1.49	<0.01	15.3	1070
D00007902	0.14	25.2	0.68	1450	1.37	<0.01	28.6	1030
D00007903	0.18	21.1	0.93	354	0.80	<0.01	24.4	1000
D00007904	0.07	8.2	0.17	256	1.08	0.02	8.2	1490
D00007905	0.19	41.0	0.70	172	1.08	<0.01	20.7	890
D00007906	0.11	34.8	0.41	85	0.69	<0.01	15.4	910

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007426	0.17	32.5	0.41	265	1.19	0.01	18.3	670
*Rep D00007452	0.35	22.1	0.22	520	1.72	0.02	7.0	590
*Rep D00007464	0.46	40.4	0.87	954	2.23	<0.01	16.3	970
*Std OREAS920	0.49	39.1	1.18	521	0.39	0.03	38.9	760
*Std OREAS151B	0.42	7.9	1.53	288	58.7	0.19	15.3	590
*Std OREAS902	0.28	16.5	2.05	460	12.0	0.02	162	700
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007404	62.5	82.2	0.11	6.2	0.7	21.3	13.5	0.23
D00007405	70.0	58.6	0.08	4.9	0.6	19.0	12.3	0.16
D00007406	48.6	48.6	0.07	3.9	0.5	14.5	9.9	0.13
D00007407	59.6	68.9	0.07	6.0	0.7	18.0	13.0	0.21
D00007408	112	97.8	0.09	6.4	0.7	48.8	14.2	0.23
D00007409	126	83.0	0.17	5.4	0.6	39.0	15.3	0.18
D00007410	39.2	148	0.11	5.2	0.8	14.6	8.4	0.34
D00007411	7.9	109	0.09	4.7	0.4	18.8	2.4	0.39
D00007412	29.6	104	0.18	4.5	0.5	15.8	6.0	0.34
D00007413	14.5	20.1	0.09	1.3	<0.3	10.8	5.7	0.06
D00007414	14.9	22.2	0.18	4.1	0.9	11.6	2.7	0.16
D00007415	28.1	21.3	0.10	3.2	0.6	14.5	3.2	0.08
D00007416	32.8	34.4	0.19	5.3	0.6	16.5	8.9	0.11
D00007417	59.7	41.7	0.11	6.0	0.4	11.1	21.0	0.12
D00007418	23.2	58.8	0.11	5.9	0.7	13.2	17.8	0.18
D00007419	56.8	19.4	0.16	4.2	0.5	11.8	3.1	0.11
D00007420	52.7	19.9	0.18	4.4	0.5	11.6	2.7	0.11
D00007421	17.7	11.9	0.21	2.4	0.8	5.2	2.7	0.20
D00007422	32.0	23.8	0.17	2.8	<0.3	8.2	2.7	0.11
D00007423	49.6	40.8	0.25	4.8	0.5	20.5	8.1	0.09
D00007424	15.9	16.1	0.31	0.7	0.6	4.6	0.4	0.09
D00007425	7.0	22.6	0.42	1.3	0.4	7.8	1.0	0.07
D00007426	8.1	17.0	0.51	1.9	0.4	10.4	5.5	0.07
D00007427	6.1	24.0	0.35	1.9	0.3	8.7	2.8	0.05
D00007428	10.6	31.4	0.37	1.1	0.5	5.2	3.6	0.08
D00007429	8.1	44.7	0.41	3.1	0.4	12.2	11.2	0.13
D00007430	18.0	34.0	0.38	3.4	0.5	15.2	12.0	0.12
D00007431	10.9	18.0	0.57	2.5	0.5	10.4	5.6	0.11
D00007432	14.2	14.5	0.47	2.5	0.4	13.4	8.0	0.08
D00007433	21.2	28.1	0.38	1.9	0.4	7.8	9.6	0.08
D00007434	12.9	25.9	0.45	2.3	0.4	11.7	9.4	0.08
D00007435	13.5	27.7	0.56	2.7	0.5	15.1	10.3	0.10
D00007436	13.4	59.9	0.18	4.2	0.3	14.4	9.3	0.18
D00007437	16.9	26.8	0.34	1.9	0.4	9.1	8.1	0.07
D00007438	13.3	78.3	0.20	7.5	0.6	19.5	12.4	0.29
D00007439	22.7	55.7	0.40	5.7	0.4	14.1	10.3	0.23
D00007440	22.3	53.3	0.39	5.8	0.5	14.3	10.2	0.24
D00007441	12.3	47.4	0.22	3.7	0.3	20.3	3.5	0.21
D00007442	12.3	24.5	0.39	2.2	0.5	9.1	6.1	0.08
D00007443	23.8	39.9	0.27	3.3	0.4	14.1	4.9	0.10

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007444	31.0	24.3	0.33	2.8	<0.3	14.6	7.9	0.07
D00007445	12.5	35.1	0.24	2.3	<0.3	11.4	12.9	0.10
D00007446	12.7	19.6	0.50	2.3	0.4	11.1	12.7	0.08
D00007447	13.1	54.5	0.32	4.1	0.5	14.0	14.2	0.16
D00007448	19.9	35.6	0.32	1.8	0.5	9.2	5.3	0.10
D00007449	50.3	33.2	0.29	3.0	0.3	24.0	10.9	0.06
D00007450	22.2	31.9	0.32	1.9	0.4	6.8	4.0	0.10
D00007451	49.7	113	0.16	7.1	0.4	23.7	9.6	0.22
D00007452	14.8	31.9	0.17	1.0	0.3	10.9	3.4	0.05
D00007453	10.0	14.2	0.20	0.4	<0.3	4.9	0.3	0.02
D00007454	11.2	16.4	0.25	0.7	<0.3	6.5	0.7	0.03
D00007455	0.9	1.9	<0.05	0.1	<0.3	4.3	<0.1	0.01
D00007456	26.4	13.8	0.14	1.2	<0.3	22.8	1.7	0.04
D00007457	22.2	29.8	0.12	2.6	0.7	5.7	3.6	0.14
D00007458	23.2	64.6	0.12	5.4	0.5	16.0	11.7	0.18
D00007459	26.3	67.3	0.18	5.3	0.7	21.1	6.0	0.16
D00007460	25.9	76.2	0.14	4.2	0.7	21.0	6.1	0.38
D00007461	25.2	33.9	0.15	3.9	0.8	8.9	8.6	0.20
D00007462	8.8	141	0.17	6.9	0.6	27.3	4.3	0.41
D00007463	27.4	50.4	0.18	3.0	0.4	23.4	25.5	0.13
D00007464	38.8	79.0	0.17	5.6	0.5	36.8	8.1	0.22
D00007465	22.4	146	0.07	11.3	0.5	36.0	11.4	0.44
D00007466	9.2	82.4	0.09	5.7	0.4	21.7	8.6	0.25
D00007467	84.3	49.2	0.14	5.3	<0.3	24.8	7.5	0.15
D00007468	20.8	46.6	0.14	3.2	0.3	14.1	14.2	0.08
D00007469	50.7	52.8	0.16	5.2	<0.3	26.2	8.8	0.16
D00007470	12.1	62.1	0.11	5.2	0.3	18.1	5.7	0.21
D00007471	19.0	95.8	0.10	6.8	0.4	31.6	9.3	0.28
D00007472	16.3	154	0.07	14.5	0.9	31.7	7.6	0.46
D00007473	16.3	124	0.10	8.0	0.4	28.1	9.9	0.37
D00007474	14.1	65.7	0.13	4.9	0.5	19.1	5.5	0.20
D00007902	17.8	15.5	0.24	3.4	0.7	17.0	5.9	0.08
D00007903	21.1	18.2	0.21	3.8	0.7	11.9	7.9	0.12
D00007904	10.6	10.9	0.19	0.3	0.4	12.0	0.4	0.02
D00007905	13.3	18.6	0.22	3.3	0.9	12.0	3.3	0.09
D00007906	12.5	14.7	0.08	1.7	0.6	14.2	1.7	0.04

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007426	8.2	17.4	0.51	2.1	0.4	11.0	5.7	0.07
*Rep D00007452	15.7	34.8	0.19	1.2	0.3	11.3	3.3	0.05
*Rep D00007464	38.8	77.4	0.17	5.8	0.5	35.6	8.1	0.21
*Std OREAS920	19.9	26.5	0.59	3.2	1.2	18.0	16.4	0.15
*Std OREAS151B	40.8	20.2	0.58	9.7	1.1	41.2	2.4	0.08
*Std OREAS902	10.0	9.1	0.76	2.6	<0.3	21.3	4.7	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007404	0.73	4.90	56	0.1	15.5	149
D00007405	0.56	4.27	47	0.1	13.5	130
D00007406	0.44	3.22	40	0.1	9.80	93
D00007407	0.59	3.73	58	0.1	14.0	227
D00007408	0.84	3.18	55	0.1	15.6	484
D00007409	0.56	4.19	64	0.2	21.7	223
D00007410	0.84	1.37	98	0.2	11.1	105
D00007411	0.55	0.91	165	0.1	11.3	127
D00007412	0.67	1.33	111	0.3	12.8	145
D00007413	0.21	1.87	23	<0.1	12.9	49
D00007414	0.26	1.55	95	0.2	10.2	151
D00007415	0.23	1.74	51	0.1	11.8	388
D00007416	0.32	3.53	82	0.2	21.1	247
D00007417	0.39	3.47	56	0.1	42.4	370
D00007418	0.50	1.61	61	<0.1	20.0	156
D00007419	0.24	1.46	78	0.1	9.75	292
D00007420	0.24	1.42	82	0.2	9.73	290
D00007421	0.20	0.69	89	0.3	4.54	68
D00007422	0.36	0.74	55	<0.1	6.81	147
D00007423	0.38	6.60	59	0.2	38.4	254
D00007424	0.12	1.05	48	0.2	4.18	57
D00007425	0.19	0.71	29	0.4	4.86	41
D00007426	0.15	0.83	32	0.3	7.48	46
D00007427	0.18	0.86	23	0.2	6.92	34
D00007428	0.19	0.63	27	0.2	3.25	29
D00007429	0.41	1.37	32	0.3	10.5	55
D00007430	0.31	1.19	41	0.2	14.7	62
D00007431	0.18	1.00	45	0.6	6.88	60
D00007432	0.15	0.90	37	0.3	8.80	58
D00007433	0.24	0.89	27	0.2	6.40	46
D00007434	0.23	1.18	32	0.2	8.99	56
D00007435	0.26	1.65	38	0.3	16.1	68
D00007436	0.58	0.82	45	0.1	10.1	53
D00007437	0.22	0.89	30	0.3	7.01	49
D00007438	0.60	0.89	91	0.1	14.0	84
D00007439	0.46	1.31	69	0.2	15.6	100
D00007440	0.42	1.24	67	0.2	15.5	100
D00007441	0.30	0.71	74	0.2	9.24	93
D00007442	0.20	1.11	34	0.4	6.77	66
D00007443	0.41	1.33	50	0.2	13.3	73

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007444	0.31	1.73	33	0.2	12.1	90
D00007445	0.31	1.08	24	0.2	11.4	51
D00007446	0.17	1.12	34	0.5	9.99	55
D00007447	0.44	1.16	48	0.2	13.1	73
D00007448	0.30	0.79	24	0.2	10.6	53
D00007449	0.32	3.25	27	0.2	20.4	193
D00007450	0.28	0.76	35	0.5	6.20	40
D00007451	0.89	1.51	80	0.2	17.4	144
D00007452	0.21	1.42	21	0.3	4.52	27
D00007453	0.19	1.24	11	0.1	3.68	19
D00007454	0.14	0.93	23	0.3	2.82	37
D00007455	0.03	0.14	5	<0.1	0.30	3
D00007456	0.10	1.49	18	<0.1	12.5	105
D00007457	0.23	0.90	56	0.2	4.88	47
D00007458	0.42	2.17	63	0.2	20.6	126
D00007459	0.46	2.28	75	0.2	13.0	76
D00007460	0.40	1.24	117	0.3	8.61	74
D00007461	0.28	1.47	67	0.2	7.42	53
D00007462	0.88	0.95	166	0.2	12.2	126
D00007463	0.56	4.35	24	0.2	21.4	117
D00007464	0.59	2.76	72	0.2	12.6	126
D00007465	1.06	1.75	120	<0.1	22.6	142
D00007466	0.47	1.19	95	0.1	17.1	99
D00007467	0.48	2.99	49	<0.1	27.1	172
D00007468	0.39	2.15	26	0.1	19.0	70
D00007469	0.42	2.74	59	<0.1	15.7	165
D00007470	0.36	1.78	98	0.1	13.4	120
D00007471	0.66	2.07	88	<0.1	18.0	125
D00007472	0.92	1.27	131	<0.1	14.6	110
D00007473	0.83	2.05	143	0.1	14.3	133
D00007474	0.45	1.96	89	0.1	7.25	104
D00007902	0.21	1.46	38	0.4	9.87	163
D00007903	0.19	0.96	41	0.3	8.10	135
D00007904	0.09	1.37	23	0.1	3.26	41
D00007905	0.15	2.19	36	0.4	14.4	109
D00007906	0.19	2.65	21	0.1	12.2	258

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Final : VC172798 Order: PO# BMC17-01015

Report File No.: 0000024805

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007426	0.15	0.88	34	0.5	7.62	48
*Rep D00007452	0.23	1.52	22	0.2	4.92	27
*Rep D00007464	0.59	2.73	72	0.1	12.5	124
*Std OREAS920	0.17	2.40	24	0.6	20.7	113
*Std OREAS151B	0.15	0.64	145	0.6	11.5	250
*Std OREAS902	0.21	2.38	9	2.1	7.32	7
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172799
[Report File No.: 0000024804]

Date: September 20, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01015
Project No.: KZK
Samples: 76
Received: Aug 28, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007907	0.445	<5	0.23	1.93	18	204	0.46	0.57
D00007908	0.640	13	0.27	1.48	9	137	0.33	0.52
D00007909	0.390	14	0.27	1.84	24	248	1.06	1.45
D00007910	0.535	12	0.12	1.40	16	318	0.20	1.00
D00007911	0.510	14	0.02	1.67	2	140	0.04	0.93
D00007912	0.300	9	0.12	1.16	9	127	0.24	0.51
D00007913	0.395	8	0.09	1.10	9	97	0.25	0.84
D00007914	0.435	9	0.28	1.03	10	137	0.23	0.89
D00007915	0.545	12	0.08	1.08	6	132	0.24	0.53
D00007916	0.380	12	0.21	1.19	8	144	0.27	0.33
D00007917	0.435	<5	0.10	0.97	5	77	0.19	0.23
D00007918	0.400	<5	0.04	1.31	4	104	0.29	0.20
D00007919	0.520	5	0.32	1.40	7	62	0.43	0.19
D00007920	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00007921	0.420	8	0.19	1.22	6	82	0.25	0.31
D00007922	0.290	10	0.20	0.93	3	112	0.24	0.83
D00007923	0.445	8	0.16	1.43	7	126	0.32	0.81
D00007924	0.190	10	0.21	0.79	4	188	0.17	0.62
D00007925	0.425	<5	0.10	1.09	7	123	0.22	0.44
D00007926	0.470	14	0.23	1.18	16	132	0.28	0.94
D00007927	0.490	14	0.22	1.78	22	94	0.19	0.88
D00007928	0.285	6	0.15	1.30	10	109	0.18	0.55
D00007929	0.395	<5	0.15	1.10	7	62	0.28	0.11
D00007930	0.510	<5	0.18	1.48	20	108	0.37	0.32
D00007931	0.375	6	0.15	1.48	15	105	0.44	0.07
D00007932	0.475	<5	0.15	0.87	8	57	0.30	0.10
D00007933	0.345	6	0.06	0.86	7	37	0.22	0.06
D00007934	0.480	<5	0.05	1.64	14	61	0.51	0.18
D00007935	0.330	<5	0.28	1.38	38	121	0.31	0.64
D00007936	0.395	6	0.25	0.95	11	254	0.31	0.64
D00007937	0.325	6	0.35	1.40	12	229	0.27	0.63
D00007938	0.275	6	0.19	1.77	10	78	0.18	0.54
D00007939	0.425	6	0.08	1.27	4	59	0.23	0.37
D00007940	0.215	5	0.07	1.11	6	78	0.29	0.37
D00007941	0.250	14	0.61	1.79	10	284	0.28	1.24
D00007942	0.330	<5	0.04	1.50	13	87	0.22	0.13
D00007943	0.340	7	0.16	1.17	14	93	0.23	0.14
D00007944	0.425	<5	0.42	0.90	10	66	4.31	0.05
D00007945	0.550	<5	0.82	1.06	17	92	1.27	0.06
D00007946	0.585	<5	0.58	0.56	49	116	0.82	0.03

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007947	0.450	<5	0.46	1.54	39	270	0.31	0.07
D00007948	0.445	<5	1.78	0.81	95	807	0.35	0.09
D00007949	0.505	<5	0.93	0.84	94	487	0.38	0.10
D00007950	0.490	<5	1.28	0.69	81	434	0.39	0.05
D00007951	0.250	<5	1.07	0.74	76	404	0.37	0.04
D00007952	0.440	9	0.70	0.82	66	427	0.36	0.04
D00007953	0.205	8	0.73	0.60	51	260	0.46	0.05
D00007954	0.250	<5	0.84	0.55	30	611	0.69	0.15
D00007955	0.380	<5	0.07	1.22	20	92	0.39	0.06
D00007956	0.500	<5	0.39	0.81	16	81	0.39	0.09
D00007957	0.535	<5	0.26	1.10	11	96	0.34	0.13
D00007958	0.300	<5	0.06	0.83	12	59	0.44	0.06
D00007959	0.370	<5	0.08	1.46	5	116	0.26	0.18
D00007960	0.110	<5	<0.01	<0.01	<1	<5	<0.02	<0.01
D00007961	0.365	6	0.14	1.22	7	103	0.52	0.12
D00007962	0.375	<5	0.17	0.51	3	107	0.17	0.06
D00007963	0.445	<5	0.03	1.39	6	125	0.25	0.31
D00007964	0.195	<5	0.33	1.19	6	116	0.28	0.16
D00007965	0.140	<5	0.68	1.49	6	146	0.41	0.19
D00007966	0.155	6	0.26	1.18	3	193	0.10	0.35
D00007967	0.350	<5	0.06	1.35	8	105	0.23	0.18
D00007968	0.285	7	0.12	1.90	5	127	0.35	0.13
D00007969	0.345	<5	0.04	2.62	2	260	0.15	0.39
D00007970	0.150	<5	0.19	1.53	2	273	0.21	0.41
D00007971	0.430	<5	0.06	0.74	3	111	0.26	0.17
D00007972	0.260	<5	0.13	1.39	2	134	0.22	0.38
D00007973	0.415	<5	0.06	1.67	11	106	0.31	0.31
D00007974	0.410	<5	0.07	1.89	8	129	0.17	1.32
D00007975	0.380	6	0.11	1.45	5	108	0.25	0.23
D00007976	0.190	<5	0.05	0.77	3	148	0.35	0.25
D00007977	0.130	11	0.13	0.83	2	81	0.10	0.37
D00007978	0.490	<5	0.08	1.74	5	103	0.44	0.29
D00007979	0.275	<5	0.08	1.41	8	124	0.40	0.41
D00007980	0.315	<5	0.10	1.48	7	147	0.35	0.57
D00007981	0.395	<5	0.04	1.01	5	80	0.25	0.37
D00007982	0.260	<5	0.15	0.98	1	81	0.11	0.34
*Std OREAS151B		69						
*Std OXK119		3600						
*Std OREAS151B		67						
*Blk BLANK		<5						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Blk BLANK	<5						
*Rep D00007960		<0.01	0.01	<1	<5	<0.02	<0.01
*Std OREAS920		0.08	2.22	5	76	0.68	0.32
*Std OREAS151B		0.54	2.21	31	69	0.39	1.31
*Std OREAS902		0.30	0.48	609	15	8.79	4.09
*Std OREAS920		0.09	2.38	4	80	0.57	0.35
*Std OREAS151B		0.55	2.37	31	69	0.41	1.37
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00007908	<5						
*Rep D00007957	<5						
*Rep D00007978	<5						
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007907	1.34	63.5	21.8	77	42.9	5.23	8.6	0.01
D00007908	0.73	102	8.9	40	23.0	3.32	7.1	0.02
D00007909	1.43	64.4	22.2	85	42.2	4.12	7.8	0.03
D00007910	0.56	34.2	14.0	45	37.2	3.33	6.2	0.02
D00007911	0.24	6.30	19.0	50	13.1	3.71	5.6	0.01
D00007912	0.19	31.9	11.4	34	21.2	2.78	5.7	0.02
D00007913	0.64	27.7	10.1	43	37.0	2.77	5.6	0.02
D00007914	0.65	44.2	10.5	31	46.9	2.34	5.1	0.03
D00007915	0.77	31.0	6.8	34	29.2	2.26	5.5	0.01
D00007916	1.27	68.0	11.1	30	21.3	2.79	4.9	0.02
D00007917	0.16	40.4	4.5	22	8.2	1.64	4.1	0.01
D00007918	0.09	26.0	4.9	27	4.6	1.98	6.7	0.01
D00007919	0.24	28.5	7.8	44	7.7	3.23	9.5	0.02
D00007920	<0.01	0.96	0.1	1	<0.5	0.03	<0.1	<0.01
D00007921	0.38	62.6	6.8	29	14.3	2.36	5.1	0.02
D00007922	0.72	29.2	6.2	28	25.2	1.78	5.8	0.02
D00007923	1.89	48.6	12.4	44	35.2	2.95	6.6	0.02
D00007924	2.02	30.4	4.8	22	26.9	1.62	3.9	0.02
D00007925	0.76	25.4	10.9	27	27.8	3.13	5.1	0.01
D00007926	0.83	33.3	12.0	37	34.8	2.59	5.9	0.03
D00007927	0.49	41.2	23.8	24	54.6	4.71	6.5	0.03
D00007928	0.38	35.6	13.8	31	32.7	3.72	5.9	0.03
D00007929	0.40	29.5	9.5	23	16.8	3.23	7.0	0.04
D00007930	0.50	40.5	16.8	48	29.2	4.02	6.7	0.03
D00007931	0.43	42.9	13.9	32	14.1	4.31	8.7	0.05
D00007932	0.39	37.5	7.5	20	8.1	1.73	5.6	0.03
D00007933	0.29	32.7	4.9	16	5.2	2.16	4.9	0.01
D00007934	0.38	27.9	14.8	53	18.4	4.35	10.6	0.02
D00007935	0.46	49.2	9.3	32	15.7	3.07	6.3	0.01
D00007936	0.29	45.1	11.4	22	16.1	2.98	4.2	0.04
D00007937	0.76	67.8	15.6	28	32.9	3.73	5.6	0.03
D00007938	0.44	45.9	18.3	57	45.3	4.83	6.7	<0.01
D00007939	0.13	27.0	8.0	32	5.9	2.67	7.2	<0.01
D00007940	0.39	25.6	7.7	30	5.6	2.85	8.8	<0.01
D00007941	5.74	95.3	9.3	34	35.7	2.75	6.0	0.08
D00007942	0.20	62.4	15.1	29	18.4	3.44	5.8	0.02
D00007943	0.34	44.3	7.0	24	8.7	1.88	3.5	0.03
D00007944	0.19	63.1	3.1	12	14.1	1.80	3.4	0.04
D00007945	0.29	90.2	6.9	15	30.2	2.16	4.2	0.15
D00007946	0.67	48.2	4.4	13	33.0	1.77	2.0	0.19

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007947	0.85	28.6	17.8	85	32.5	3.24	4.8	0.14
D00007948	0.79	46.5	8.1	30	44.4	3.12	3.1	0.80
D00007949	0.69	50.9	5.5	26	50.0	3.17	3.1	0.37
D00007950	0.64	53.0	4.4	19	45.7	2.46	2.5	0.36
D00007951	0.68	50.8	4.0	17	42.2	2.30	2.5	0.27
D00007952	0.60	52.3	5.5	24	34.7	2.40	3.1	0.13
D00007953	0.38	40.5	4.3	15	18.0	1.49	2.3	0.19
D00007954	1.98	58.4	4.5	14	49.9	1.76	2.8	0.09
D00007955	0.34	39.5	6.7	35	16.4	3.39	7.9	0.04
D00007956	0.21	46.6	4.0	19	8.5	1.94	3.3	0.04
D00007957	2.48	50.7	8.4	26	9.8	2.02	3.6	0.05
D00007958	0.46	35.7	5.0	24	9.1	2.11	5.7	0.02
D00007959	0.16	22.1	8.7	45	9.2	2.68	6.2	0.03
D00007960	<0.01	0.92	<0.1	1	<0.5	0.02	<0.1	<0.01
D00007961	0.80	33.5	6.3	33	14.2	2.08	4.9	0.01
D00007962	0.68	64.3	1.6	8	6.9	0.74	2.4	0.01
D00007963	0.21	26.7	10.3	45	17.7	2.48	5.5	<0.01
D00007964	0.22	39.7	6.2	37	14.4	1.90	5.1	0.03
D00007965	0.18	66.6	7.8	25	16.7	2.23	4.9	0.05
D00007966	0.14	41.4	10.2	80	12.5	2.00	5.0	0.05
D00007967	0.11	51.7	5.8	31	7.8	1.70	4.6	0.01
D00007968	0.08	28.1	7.4	45	11.2	2.72	7.8	<0.01
D00007969	0.10	64.6	9.4	33	7.3	4.38	12.4	<0.01
D00007970	0.67	153	11.3	13	14.8	1.69	4.9	0.05
D00007971	0.14	47.0	4.3	17	7.4	1.46	4.0	0.02
D00007972	0.10	54.6	4.1	31	10.4	1.78	5.2	0.03
D00007973	0.33	40.2	12.5	45	21.2	3.26	6.8	<0.01
D00007974	1.69	42.6	16.8	40	26.3	4.19	8.3	0.03
D00007975	0.31	39.7	7.1	39	17.2	2.06	5.7	0.02
D00007976	0.09	34.1	3.5	17	9.3	1.59	5.1	<0.01
D00007977	0.14	26.2	3.1	12	9.4	1.09	3.2	0.01
D00007978	0.32	70.9	10.2	30	13.4	2.97	7.5	0.02
D00007979	0.31	49.0	7.4	38	16.2	3.14	8.7	0.01
D00007980	0.41	40.7	9.0	40	17.1	2.89	7.9	0.01
D00007981	0.20	38.8	7.8	28	10.9	2.10	4.9	<0.01
D00007982	0.04	35.1	2.1	10	4.1	0.89	3.9	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007960	<0.01	1.11	0.1	<1	<0.5	0.02	<0.1	<0.01
*Std OREAS920	0.06	67.5	13.4	45	104	3.55	6.9	<0.01
*Std OREAS151B	0.59	15.4	10.2	28	1830	3.23	7.2	0.02
*Std OREAS902	0.02	30.4	992	24	3090	3.08	1.6	0.05
*Std OREAS920	0.06	72.8	13.8	47	107	3.63	7.0	<0.01
*Std OREAS151B	0.58	16.4	10.7	29	1920	3.24	7.3	0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007907	0.11	34.5	1.34	1510	2.50	0.01	58.4	1590
D00007908	0.10	48.5	0.90	251	1.51	0.01	24.1	1320
D00007909	0.09	32.3	1.40	1270	1.10	0.01	57.8	1180
D00007910	0.13	18.2	0.98	758	1.25	0.01	35.6	1200
D00007911	0.21	3.9	1.30	504	1.33	0.01	22.6	920
D00007912	0.06	16.0	0.73	611	1.36	0.01	22.1	980
D00007913	0.12	14.6	0.72	478	1.61	0.01	31.0	1130
D00007914	0.07	27.0	0.50	680	1.73	0.01	24.9	2030
D00007915	0.06	37.4	0.65	354	1.48	0.01	21.4	1150
D00007916	0.11	37.6	0.62	649	1.41	0.01	24.2	1240
D00007917	0.08	22.4	0.38	143	0.89	0.02	10.5	940
D00007918	0.05	14.5	0.46	162	0.89	0.01	10.4	620
D00007919	0.15	14.8	0.58	360	1.02	0.01	16.7	1060
D00007920	<0.01	0.5	<0.01	3	<0.05	0.01	<0.5	<50
D00007921	0.11	40.8	0.67	172	1.20	0.01	17.5	1390
D00007922	0.16	18.8	0.49	333	0.96	0.02	16.3	950
D00007923	0.09	29.1	0.83	572	1.24	0.02	28.2	960
D00007924	0.05	31.1	0.33	376	1.01	0.02	12.5	1280
D00007925	0.07	14.7	0.67	644	2.12	0.02	22.1	1100
D00007926	0.06	26.4	0.60	518	1.06	0.01	20.6	1110
D00007927	0.07	23.6	1.10	842	1.46	0.01	40.5	1360
D00007928	0.05	17.9	0.76	740	2.14	0.01	27.8	990
D00007929	0.05	13.7	0.56	290	1.82	0.01	18.3	770
D00007930	0.15	18.2	1.02	1010	1.86	0.01	34.8	1560
D00007931	0.06	26.6	0.52	806	2.34	0.01	21.2	510
D00007932	0.07	18.8	0.29	555	1.55	0.01	10.6	370
D00007933	0.05	16.8	0.38	242	1.07	0.01	10.6	240
D00007934	0.26	13.8	1.12	829	2.00	0.01	28.7	750
D00007935	0.07	23.9	0.60	523	1.78	0.01	20.7	810
D00007936	0.09	22.2	0.39	400	1.84	0.01	20.0	800
D00007937	0.11	44.4	0.72	1010	1.71	0.01	30.5	1210
D00007938	0.07	24.5	1.24	474	1.98	0.01	52.4	1390
D00007939	0.05	15.0	0.62	267	0.90	0.01	11.6	970
D00007940	0.06	14.4	0.60	327	1.07	0.02	10.9	630
D00007941	0.09	89.4	0.75	590	2.36	0.01	25.8	1750
D00007942	0.04	35.0	0.72	615	0.96	0.01	25.9	570
D00007943	0.06	24.3	0.39	218	1.68	0.01	21.4	700
D00007944	0.05	36.0	0.15	95	5.79	0.01	11.0	680
D00007945	0.07	45.9	0.18	145	6.12	0.02	21.3	1070
D00007946	0.10	24.8	0.16	88	5.15	0.01	23.3	500

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007947	0.26	14.6	1.02	606	2.56	0.01	83.3	610
D00007948	0.15	26.1	0.26	247	6.72	0.02	34.5	1440
D00007949	0.09	28.7	0.23	132	7.12	0.01	22.6	1580
D00007950	0.08	29.3	0.15	101	6.31	0.01	17.4	1140
D00007951	0.07	29.2	0.15	82	5.33	0.01	18.5	1000
D00007952	0.10	29.4	0.23	114	4.69	0.01	25.9	850
D00007953	0.09	23.6	0.17	152	3.26	0.01	15.9	560
D00007954	0.09	42.0	0.16	137	3.82	0.01	13.1	520
D00007955	0.14	20.6	0.51	242	2.13	0.01	20.3	620
D00007956	0.13	25.8	0.27	110	3.57	0.01	11.0	570
D00007957	0.13	24.1	0.40	700	1.53	0.01	23.9	470
D00007958	0.14	16.9	0.32	347	1.90	0.01	13.2	460
D00007959	0.30	11.8	0.75	221	1.11	0.02	22.7	810
D00007960	<0.01	0.5	<0.01	<2	<0.05	<0.01	<0.5	<50
D00007961	0.16	16.6	0.52	284	1.79	0.02	17.5	730
D00007962	0.07	34.2	0.06	119	1.34	0.01	5.2	780
D00007963	0.34	13.5	0.80	317	1.07	0.02	25.0	1190
D00007964	0.15	20.2	0.55	212	1.27	0.03	19.8	840
D00007965	0.21	38.4	0.34	485	2.79	0.02	18.2	1140
D00007966	0.09	21.2	0.49	1190	1.09	0.04	30.3	1460
D00007967	0.16	27.5	0.48	142	0.82	0.01	15.2	600
D00007968	0.16	15.3	0.57	490	1.79	0.02	15.2	1170
D00007969	0.23	16.7	1.18	249	1.61	0.01	13.0	1080
D00007970	0.17	83.9	0.18	2760	2.09	0.03	11.4	1430
D00007971	0.17	20.7	0.20	686	1.31	0.02	7.4	830
D00007972	0.13	26.3	0.33	224	1.14	0.02	10.5	1670
D00007973	0.16	18.1	0.91	708	1.34	0.02	26.3	1340
D00007974	0.08	16.8	1.29	1500	1.25	0.01	23.3	2020
D00007975	0.13	23.4	0.57	379	0.91	0.03	16.0	1270
D00007976	0.07	20.1	0.17	795	1.48	0.03	8.1	730
D00007977	0.04	15.6	0.13	266	0.87	0.03	5.2	1610
D00007978	0.23	31.1	0.53	1010	1.35	0.01	17.2	1010
D00007979	0.12	20.6	0.53	592	1.67	0.01	19.1	740
D00007980	0.16	22.5	0.53	1150	1.84	0.02	17.1	1750
D00007981	0.19	18.0	0.53	519	0.87	0.02	15.5	890
D00007982	0.10	22.8	0.20	60	0.40	0.04	4.8	620

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007960	<0.01	0.6	<0.01	<2	<0.05	0.01	<0.5	<50
*Std OREAS920	0.42	37.1	1.11	504	0.39	0.03	37.5	750
*Std OREAS151B	0.39	7.3	1.40	272	58.3	0.16	14.1	530
*Std OREAS902	0.27	15.3	2.22	479	13.1	0.02	172	720
*Std OREAS920	0.48	37.3	1.19	553	0.42	0.03	39.6	760
*Std OREAS151B	0.42	7.4	1.51	298	56.4	0.17	15.1	550
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007907	58.3	17.8	0.22	5.9	0.5	22.4	4.0	0.07
D00007908	47.3	16.0	0.17	4.1	0.3	22.0	8.0	0.06
D00007909	73.2	14.0	0.25	5.7	<0.3	51.6	2.8	0.07
D00007910	14.6	28.2	0.19	4.3	0.3	40.9	3.1	0.05
D00007911	3.2	22.6	<0.05	2.6	0.4	34.1	2.3	0.24
D00007912	32.0	10.9	0.24	2.3	0.3	25.0	1.5	0.06
D00007913	10.4	21.3	0.29	3.1	0.6	41.3	1.6	0.05
D00007914	20.5	18.1	0.26	1.1	0.4	45.6	0.7	0.02
D00007915	11.3	14.9	0.20	2.2	0.5	32.5	1.1	0.03
D00007916	41.4	19.2	0.22	2.4	<0.3	15.3	2.0	0.04
D00007917	13.4	11.2	0.17	1.2	0.5	13.0	0.5	0.04
D00007918	20.3	13.0	0.13	1.8	0.8	19.2	0.9	0.05
D00007919	19.3	22.1	0.26	4.3	1.6	9.9	6.3	0.15
D00007920	0.4	<0.2	<0.05	<0.1	<0.3	0.7	0.4	<0.01
D00007921	27.2	15.4	0.12	2.6	<0.3	13.3	2.1	0.04
D00007922	9.7	35.2	0.10	3.4	1.0	51.0	2.9	0.09
D00007923	29.7	15.0	0.21	4.9	1.0	43.9	4.2	0.10
D00007924	10.2	8.8	0.14	1.8	0.4	36.1	1.2	0.04
D00007925	22.1	14.2	0.20	2.3	0.4	26.8	1.3	0.04
D00007926	19.1	9.7	0.20	3.0	0.8	45.6	1.6	0.06
D00007927	31.7	8.7	0.26	4.8	<0.3	41.6	3.7	0.03
D00007928	32.1	8.3	0.26	3.9	<0.3	25.2	2.7	0.03
D00007929	14.4	7.2	0.34	2.9	0.6	7.0	0.7	0.05
D00007930	48.4	26.2	0.49	4.1	0.5	15.4	2.2	0.07
D00007931	19.0	12.8	0.34	3.1	1.0	7.0	7.1	0.10
D00007932	13.1	13.9	0.25	2.0	1.4	7.6	4.9	0.08
D00007933	9.0	9.4	0.19	1.9	0.4	5.6	3.9	0.04
D00007934	25.6	56.2	0.29	5.7	1.4	11.0	6.4	0.18
D00007935	25.6	13.7	0.22	3.0	0.9	28.6	3.7	0.06
D00007936	38.9	11.6	0.24	3.2	<0.3	34.9	5.9	0.02
D00007937	33.9	20.8	0.29	6.3	<0.3	27.8	8.8	0.03
D00007938	23.2	10.5	0.14	6.5	<0.3	23.3	6.2	0.04
D00007939	15.4	9.5	0.08	3.9	1.0	15.9	5.3	0.12
D00007940	21.1	12.7	0.08	3.0	1.1	17.8	2.0	0.13
D00007941	39.7	11.6	0.20	2.6	0.4	60.8	3.0	0.03
D00007942	12.9	6.6	0.31	2.8	<0.3	8.2	7.5	0.04
D00007943	17.4	8.5	0.87	2.3	0.3	11.4	7.6	0.05
D00007944	339	5.4	1.62	1.0	<0.3	8.6	5.9	0.02
D00007945	106	8.2	1.94	1.2	0.3	9.7	6.5	0.02
D00007946	164	8.5	3.35	1.1	<0.3	6.8	19.7	0.02

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007947	90.0	30.9	2.22	5.2	<0.3	10.1	8.1	0.09
D00007948	317	10.3	9.14	2.1	<0.3	44.4	9.4	0.04
D00007949	127	7.8	7.98	1.8	<0.3	35.3	7.6	0.03
D00007950	128	6.3	7.53	1.2	<0.3	32.1	6.1	0.02
D00007951	118	7.0	5.46	1.0	<0.3	26.1	4.6	0.02
D00007952	98.1	12.0	4.11	1.2	<0.3	21.5	4.1	0.03
D00007953	79.9	10.3	2.14	0.9	<0.3	16.8	3.4	0.02
D00007954	105	10.8	3.31	1.1	<0.3	11.7	8.0	0.02
D00007955	25.1	15.7	0.88	3.1	1.3	14.2	4.1	0.09
D00007956	118	13.5	1.06	1.5	0.4	7.0	8.9	0.04
D00007957	37.7	14.7	0.77	2.6	0.4	7.5	12.5	0.07
D00007958	31.0	16.2	0.67	1.7	0.7	6.1	3.0	0.08
D00007959	15.9	40.2	0.23	2.5	1.0	8.9	1.4	0.12
D00007960	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.2	<0.01
D00007961	299	16.4	0.38	1.8	0.8	9.8	1.1	0.07
D00007962	29.7	10.6	0.23	0.7	0.5	5.0	2.6	0.01
D00007963	11.8	36.3	0.21	3.5	0.8	11.7	3.6	0.14
D00007964	12.6	18.2	0.22	1.9	0.5	11.5	1.8	0.08
D00007965	25.0	19.3	0.31	1.5	0.5	11.7	1.1	0.04
D00007966	5.6	7.5	0.11	1.6	0.4	17.3	0.7	0.08
D00007967	17.4	17.5	0.17	2.3	0.5	8.8	4.0	0.07
D00007968	17.4	26.5	0.38	1.2	1.2	9.5	0.7	0.07
D00007969	8.4	27.5	0.09	4.9	1.7	14.5	3.0	0.38
D00007970	13.1	16.9	0.23	1.4	<0.3	22.0	2.1	0.04
D00007971	10.1	28.7	0.24	0.8	0.8	9.1	0.3	0.04
D00007972	10.4	14.6	0.17	0.7	0.4	18.4	0.3	0.04
D00007973	34.6	22.6	0.28	2.9	0.7	14.1	1.2	0.08
D00007974	43.2	13.2	0.25	4.4	<0.3	46.5	2.2	0.05
D00007975	20.7	22.2	0.20	1.0	0.5	14.0	0.3	0.05
D00007976	22.6	15.5	0.34	0.7	0.6	16.0	0.2	0.05
D00007977	8.0	4.7	0.13	0.4	<0.3	21.0	0.2	0.02
D00007978	21.2	24.6	0.24	2.1	0.6	24.8	1.8	0.08
D00007979	27.0	19.3	0.44	2.3	1.0	19.6	1.7	0.09
D00007980	33.9	27.5	0.29	1.0	0.9	26.2	0.4	0.05
D00007981	12.8	34.2	0.20	2.0	0.6	15.1	1.5	0.08
D00007982	8.1	11.8	0.07	0.8	0.3	14.6	0.2	0.04

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007960	0.4	<0.2	<0.05	<0.1	<0.3	0.7	0.2	<0.01
*Std OREAS920	19.3	24.8	0.58	3.2	1.3	17.5	16.3	0.13
*Std OREAS151B	40.4	20.1	0.51	9.8	1.0	38.4	2.5	0.08
*Std OREAS902	10.2	9.6	0.88	3.0	<0.3	22.3	5.1	<0.01
*Std OREAS920	20.7	27.1	0.66	3.1	1.2	17.3	15.6	0.15
*Std OREAS151B	40.3	19.6	0.55	9.8	1.0	38.5	2.4	0.08
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007907	0.12	2.08	70	0.1	17.6	355
D00007908	0.13	1.54	42	0.2	13.2	197
D00007909	0.09	0.99	67	0.1	18.4	294
D00007910	0.13	0.80	46	<0.1	9.97	150
D00007911	0.12	0.34	77	0.2	2.37	110
D00007912	0.07	0.91	44	0.1	7.18	82
D00007913	0.08	0.71	43	0.3	8.10	106
D00007914	0.07	2.12	36	0.2	12.6	66
D00007915	0.09	0.99	38	0.4	13.3	86
D00007916	0.12	1.71	34	0.2	14.1	242
D00007917	0.11	1.06	30	0.2	6.63	96
D00007918	0.21	0.89	37	0.2	4.41	122
D00007919	0.13	0.92	69	6.8	5.39	128
D00007920	<0.02	0.10	<1	<0.1	0.70	2
D00007921	0.12	1.85	34	0.6	13.5	223
D00007922	0.11	1.50	34	0.3	11.1	69
D00007923	0.10	2.60	52	0.3	13.4	166
D00007924	0.06	2.22	27	0.3	12.6	120
D00007925	0.07	1.06	37	0.2	7.63	217
D00007926	0.08	2.65	40	1.0	11.6	92
D00007927	0.07	0.94	61	0.2	12.9	195
D00007928	0.07	0.72	54	0.3	8.56	187
D00007929	0.09	0.78	69	0.3	5.32	108
D00007930	0.13	1.00	61	0.2	8.03	174
D00007931	0.11	0.90	61	0.7	4.97	101
D00007932	0.11	0.81	31	0.6	3.81	74
D00007933	0.07	0.50	31	0.2	2.89	66
D00007934	0.14	0.71	85	0.4	6.01	153
D00007935	0.12	1.42	39	0.3	9.20	197
D00007936	0.11	1.29	29	0.1	8.96	179
D00007937	0.16	1.62	50	0.2	22.2	204
D00007938	0.10	1.23	61	0.1	11.1	222
D00007939	0.12	0.95	50	0.2	5.32	105
D00007940	0.11	0.86	53	0.5	3.98	116
D00007941	0.14	14.0	35	<0.1	38.0	523
D00007942	0.06	1.04	34	0.2	8.34	84
D00007943	0.13	1.76	34	0.3	7.36	100
D00007944	0.12	6.14	17	0.4	10.1	139
D00007945	0.37	10.2	20	0.5	26.2	239
D00007946	0.31	7.39	11	0.3	12.7	235

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007947	0.98	2.43	47	0.2	9.35	355
D00007948	0.82	3.34	32	0.3	9.54	245
D00007949	0.60	4.31	44	0.4	9.95	215
D00007950	0.66	3.96	38	0.3	9.30	190
D00007951	0.55	4.33	32	0.3	9.77	207
D00007952	0.51	3.22	30	0.3	9.11	283
D00007953	0.38	2.72	19	0.2	7.58	142
D00007954	0.23	3.69	15	0.3	15.6	287
D00007955	0.20	1.29	47	0.5	4.51	92
D00007956	0.15	1.45	23	0.4	5.97	90
D00007957	0.19	1.69	28	0.3	12.0	1230
D00007958	0.15	1.15	41	0.3	4.96	185
D00007959	0.24	1.00	51	0.3	6.01	62
D00007960	<0.02	0.09	<1	<0.1	0.68	2
D00007961	0.16	1.72	32	0.2	6.82	240
D00007962	0.11	2.27	11	0.2	9.04	109
D00007963	0.21	0.95	52	0.5	6.95	75
D00007964	0.14	1.84	37	0.2	7.38	61
D00007965	0.39	2.80	29	0.2	11.9	76
D00007966	0.19	1.49	45	0.1	9.05	34
D00007967	0.20	1.14	38	1.0	8.06	62
D00007968	0.22	1.68	56	0.3	6.76	51
D00007969	0.22	1.22	74	0.1	8.30	100
D00007970	0.25	2.97	18	0.2	26.6	53
D00007971	0.12	1.07	25	0.2	5.51	35
D00007972	0.15	1.85	26	0.1	8.16	34
D00007973	0.13	1.18	50	0.3	7.88	131
D00007974	0.06	0.48	67	0.1	9.88	296
D00007975	0.15	1.24	33	0.2	7.94	70
D00007976	0.10	0.74	38	0.3	4.85	31
D00007977	0.06	1.30	20	0.1	4.59	28
D00007978	0.18	1.57	37	0.4	9.55	94
D00007979	0.13	1.19	51	0.4	7.50	73
D00007980	0.13	1.81	42	0.3	8.75	71
D00007981	0.13	0.91	30	0.2	6.00	62
D00007982	0.11	0.68	17	6.8	7.25	31

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Final : VC172799 Order: PO# BMC17-01015

Report File No.: 0000024804

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007960	<0.02	0.12	<1	<0.1	0.68	2
*Std OREAS920	0.16	2.27	25	0.5	17.8	115
*Std OREAS151B	0.13	0.67	148	0.6	10.6	249
*Std OREAS902	0.24	2.47	9	2.3	7.74	7
*Std OREAS920	0.17	2.43	23	0.7	20.2	114
*Std OREAS151B	0.13	0.67	141	0.6	10.9	242
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172800
[Report File No.: 0000024730]

Date: September 18, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01015
Project No.: KZK
Samples: 37
Received: Aug 28, 2017
Pages: Page 1 to 11
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
37	G_LOG02	Pre-preparation processing, sorting, logging, boxing
37	G_WGH79	Weighing of samples and reporting of weights
37	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
37	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007983	0.145	<5	0.25	0.75	<1	33	0.07	0.22
D00007984	0.270	10	0.10	0.84	2	131	0.34	0.10
D00007985	0.285	5	0.21	1.09	5	67	0.28	0.10
D00007986	0.445	6	0.30	1.21	10	58	0.94	0.30
D00007987	0.355	<5	0.19	1.21	5	162	0.26	0.35
D00007988	0.485	<5	0.10	1.09	5	100	0.21	0.37
D00007989	0.495	6	0.31	1.31	8	146	0.24	0.36
D00007990	0.285	<5	0.21	0.79	8	186	0.26	1.04
D00007991	0.455	8	0.39	0.50	24	91	0.68	0.04
D00007992	0.405	14	1.54	0.79	109	328	0.85	0.03
D00007993	0.480	5	0.73	0.41	24	101	0.63	0.02
D00007994	0.390	8	0.70	0.48	22	207	0.46	0.03
D00007995	0.260	14	2.63	0.70	84	252	0.74	0.03
D00007996	0.305	8	0.86	0.63	85	190	0.56	0.03
D00007997	0.425	5	0.72	0.95	48	285	0.78	0.07
D00007998	0.510	9	1.09	0.77	75	419	0.62	0.03
D00007999	0.435	8	1.42	0.49	74	348	0.42	0.03
D00008000	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
B00266382	0.465	<5	0.33	0.82	13	201	0.38	0.17
B00266383	0.625	<5	0.46	0.63	21	245	0.25	0.02
B00266384	0.250	33	7.53	0.91	106	594	0.72	0.12
B00266385	0.430	8	0.90	0.40	43	74	0.37	0.04
B00266386	0.550	6	0.64	0.42	31	97	0.34	0.01
B00266387	0.545	8	1.00	0.44	70	182	0.52	0.02
B00266388	0.495	7	1.39	0.99	59	248	0.39	0.06
B00266389	0.590	8	0.46	1.19	33	212	0.24	0.08
B00266390	0.530	<5	0.25	0.75	23	118	0.33	0.06
B00266391	0.425	8	1.11	0.86	50	386	0.61	0.04
B00266392	0.625	<5	0.44	1.23	22	215	0.28	0.12
B00266393	0.365	<5	0.25	1.47	8	232	0.21	0.14
B00266394	0.515	<5	0.24	0.96	7	265	0.32	0.06
B00266395	0.660	<5	0.09	0.61	3	58	0.34	0.03
B00266396	0.445	<5	0.08	0.72	6	47	0.24	0.09
B00266397	0.215	8	2.08	1.62	4	286	0.11	0.09
B00266398	0.670	<5	0.08	0.81	8	64	0.36	0.09
B00266399	0.830	<5	0.11	0.77	4	54	0.40	0.06
B00266400	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
*Std OREAS151B		67						
*Std OXK119		3660						
*Blk BLANK		<5						

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Final : VC172800 Order: PO# BMC17-01015

Report File No.: 0000024730

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Rep D00007983		0.24	0.73	<1	32	0.07	0.21
*Std OREAS920		0.09	2.22	3	76	0.61	0.33
*Std OREAS151B		0.57	2.58	32	70	0.40	1.46
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep B00266383	<5						
*Rep B00266398	<5						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007983	0.52	47.1	0.8	2	12.3	0.31	3.0	0.02
D00007984	0.14	30.5	6.4	21	8.9	1.88	7.2	0.01
D00007985	0.20	31.3	3.6	22	12.9	1.58	6.0	0.02
D00007986	0.47	48.8	11.5	16	40.0	3.80	4.4	<0.01
D00007987	0.14	51.3	7.8	21	9.8	2.80	5.2	0.03
D00007988	0.08	41.2	7.4	20	10.5	2.80	4.5	<0.01
D00007989	0.25	45.2	7.7	20	13.1	2.81	4.9	<0.01
D00007990	0.39	46.4	10.3	15	10.6	2.40	3.1	0.03
D00007991	0.33	58.4	4.1	7	20.4	1.71	2.2	0.04
D00007992	0.63	76.5	7.8	5	55.4	2.39	2.9	0.74
D00007993	0.41	45.0	4.2	2	22.2	1.25	1.6	0.11
D00007994	0.31	54.4	2.0	4	21.1	1.60	2.3	0.25
D00007995	0.79	44.1	2.1	7	31.2	1.98	2.3	0.57
D00007996	1.38	141	7.4	7	43.2	2.70	2.9	0.15
D00007997	2.15	234	27.7	11	73.3	2.67	4.4	0.16
D00007998	1.33	90.4	8.2	16	67.4	2.73	2.7	0.30
D00007999	0.84	51.5	2.8	13	30.7	2.26	2.4	0.22
D00008000	<0.01	1.08	<0.1	<1	1.2	0.02	<0.1	<0.01
B00266382	1.37	85.7	7.3	5	16.8	1.68	2.9	0.05
B00266383	0.23	34.6	1.5	3	19.6	2.27	2.6	0.07
B00266384	2.64	205	7.3	8	26.2	2.73	4.2	1.22
B00266385	0.52	61.7	4.8	5	15.9	1.43	1.9	0.13
B00266386	0.64	65.4	7.7	2	20.4	1.41	1.6	0.09
B00266387	0.56	71.9	4.2	2	29.9	2.27	2.0	0.62
B00266388	1.00	66.3	12.3	33	32.3	2.60	3.3	0.33
B00266389	1.20	58.2	19.4	34	34.6	2.81	3.6	0.06
B00266390	0.86	84.2	9.2	9	26.6	1.90	3.0	0.04
B00266391	0.87	70.3	3.5	14	40.0	2.49	3.2	0.15
B00266392	0.93	55.4	10.9	48	33.4	2.80	2.9	0.10
B00266393	0.90	56.5	13.7	54	33.8	2.22	3.6	0.05
B00266394	0.44	33.2	8.8	22	8.6	2.21	5.1	0.04
B00266395	0.24	38.8	2.9	14	8.9	1.28	4.9	0.05
B00266396	0.32	40.4	4.8	13	8.8	1.47	2.4	0.02
B00266397	0.94	86.9	0.9	10	15.7	0.97	1.8	0.23
B00266398	0.34	80.9	5.4	14	10.9	1.69	3.0	0.01
B00266399	0.22	47.5	5.9	16	9.1	2.23	5.1	0.04
B00266400	<0.01	1.00	<0.1	<1	0.7	0.02	<0.1	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00007983	0.44	45.8	0.8	2	11.8	0.27	2.8	0.02
*Std OREAS920	0.06	72.3	13.5	44	98.4	3.86	7.0	<0.01
*Std OREAS151B	0.63	17.1	10.8	27	1780	3.63	8.0	0.02
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007983	0.03	29.5	0.06	33	0.31	0.03	3.5	630
D00007984	0.31	15.9	0.37	910	1.36	0.02	9.4	310
D00007985	0.12	17.4	0.27	98	1.36	0.01	10.6	780
D00007986	0.21	23.7	0.52	401	3.53	<0.01	23.2	1420
D00007987	0.30	26.0	0.43	234	1.47	0.02	14.3	900
D00007988	0.27	20.3	0.52	222	1.26	0.01	14.5	510
D00007989	0.20	24.1	0.52	166	1.44	0.01	17.9	450
D00007990	0.30	26.3	0.25	739	2.48	0.01	11.5	1010
D00007991	0.09	27.8	0.13	163	3.83	0.01	9.6	420
D00007992	0.07	40.1	0.09	261	6.29	0.01	11.0	810
D00007993	0.05	22.7	0.06	119	3.42	0.01	6.7	360
D00007994	0.07	26.9	0.08	55	5.62	0.02	6.0	520
D00007995	0.08	23.7	0.08	49	6.26	0.01	11.8	910
D00007996	0.07	78.3	0.21	561	6.61	0.01	26.9	610
D00007997	0.05	102	0.35	885	5.91	0.01	42.4	900
D00007998	0.06	49.6	0.10	188	7.79	0.02	27.9	890
D00007999	0.07	27.1	0.13	61	7.89	0.01	11.8	670
D00008000	<0.01	0.5	<0.01	<2	0.08	0.01	<0.5	<50
B00266382	0.31	45.3	0.32	356	1.82	0.01	9.3	570
B00266383	0.08	17.6	0.06	45	4.77	0.01	5.3	660
B00266384	0.07	105	0.06	176	8.39	0.01	14.5	1770
B00266385	0.07	30.5	0.08	219	5.04	0.01	9.9	420
B00266386	0.06	34.4	0.04	219	4.90	0.01	10.6	450
B00266387	0.06	42.8	0.07	138	6.48	0.01	12.8	460
B00266388	0.07	36.6	0.33	495	4.67	0.01	26.9	740
B00266389	0.36	33.7	0.62	680	2.41	0.01	68.0	620
B00266390	0.05	48.3	0.31	321	2.62	0.01	22.7	490
B00266391	0.06	40.2	0.16	84	7.26	0.02	18.2	890
B00266392	0.22	29.4	0.68	240	3.23	0.01	26.7	480
B00266393	0.10	32.4	0.79	295	1.79	0.01	28.0	550
B00266394	0.10	16.9	0.30	310	1.65	0.01	6.8	810
B00266395	0.14	19.3	0.16	148	1.58	0.01	6.9	460
B00266396	0.10	19.8	0.24	198	1.38	<0.01	11.5	460
B00266397	0.04	42.9	0.04	23	0.92	0.01	9.2	3050
B00266398	0.09	38.4	0.23	133	3.15	0.01	12.6	370
B00266399	0.22	19.4	0.21	291	1.81	0.01	8.3	650
B00266400	<0.01	0.5	<0.01	<2	0.06	0.01	<0.5	<50

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00007983	0.03	28.1	0.05	28	0.31	0.03	3.5	620
*Std OREAS920	0.45	36.1	1.08	524	0.40	0.03	35.9	710
*Std OREAS151B	0.46	7.7	1.37	281	59.5	0.18	15.2	520
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007983	6.2	2.4	<0.05	0.5	<0.3	10.3	<0.1	0.02
D00007984	17.0	54.3	0.14	3.0	1.9	11.7	2.3	0.13
D00007985	11.7	18.0	0.32	0.7	0.9	13.0	0.2	0.04
D00007986	54.2	22.4	0.36	3.5	<0.3	12.8	7.7	0.06
D00007987	20.7	36.6	0.16	3.3	0.5	16.3	5.8	0.07
D00007988	18.0	32.9	0.12	3.1	0.5	17.6	7.9	0.09
D00007989	33.5	26.4	0.20	3.6	0.4	14.7	8.2	0.05
D00007990	70.0	36.9	0.15	2.2	<0.3	31.1	7.2	0.05
D00007991	97.7	5.8	1.32	0.9	<0.3	6.8	12.0	0.02
D00007992	368	7.6	9.04	0.9	<0.3	15.8	12.4	0.01
D00007993	91.3	4.8	3.54	0.6	<0.3	6.7	13.0	0.01
D00007994	91.5	5.5	2.66	0.6	<0.3	13.0	9.5	0.01
D00007995	206	9.7	5.84	0.6	<0.3	10.8	3.6	0.01
D00007996	43.3	7.0	4.39	0.9	<0.3	10.4	13.5	0.02
D00007997	43.7	5.1	2.91	1.6	0.4	17.0	16.1	0.03
D00007998	81.8	5.3	5.50	1.2	<0.3	45.1	13.9	0.02
D00007999	87.4	5.3	6.86	0.9	<0.3	26.4	7.2	0.02
D00008000	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.3	<0.01
B00266382	66.6	21.7	0.58	1.5	<0.3	8.1	10.4	0.05
B00266383	100	4.9	1.24	0.9	<0.3	5.6	6.8	0.01
B00266384	437	6.9	9.47	0.8	0.6	10.4	3.8	<0.01
B00266385	77.1	5.2	2.23	0.7	<0.3	6.6	8.8	0.02
B00266386	51.4	4.2	1.45	0.5	<0.3	14.1	9.5	<0.01
B00266387	160	4.2	3.11	0.8	<0.3	6.1	20.6	<0.01
B00266388	111	8.2	3.17	1.6	<0.3	12.5	4.7	0.03
B00266389	20.2	43.9	1.21	2.7	<0.3	7.4	8.4	0.11
B00266390	21.7	5.2	1.22	1.2	<0.3	8.8	16.2	0.02
B00266391	86.3	7.5	4.06	0.9	0.4	32.9	4.3	0.02
B00266392	106	15.0	2.06	1.7	<0.3	9.6	23.9	0.09
B00266393	33.3	9.4	0.81	1.8	<0.3	9.5	3.5	0.07
B00266394	35.3	9.5	0.63	1.0	0.6	5.7	0.9	0.06
B00266395	13.2	16.4	0.33	1.1	0.8	3.5	2.3	0.07
B00266396	24.2	9.9	0.68	1.2	<0.3	6.5	5.1	0.04
B00266397	211	3.9	0.25	1.7	<0.3	7.5	3.3	0.01
B00266398	25.3	10.6	0.32	1.8	0.3	6.6	11.9	0.03
B00266399	15.0	28.0	0.20	1.2	0.9	4.1	2.4	0.06
B00266400	0.4	<0.2	<0.05	<0.1	<0.3	0.6	<0.1	<0.01

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00007983	6.0	2.3	<0.05	0.5	<0.3	10.1	<0.1	0.02
*Std OREAS920	19.5	25.1	0.57	3.1	1.1	16.8	16.1	0.13
*Std OREAS151B	39.8	21.1	0.56	9.9	1.1	39.5	2.7	0.08
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007983	0.09	2.34	6	<0.1	13.0	16
D00007984	0.20	0.72	37	2.8	3.85	43
D00007985	0.17	1.25	31	0.5	4.74	34
D00007986	0.23	1.41	42	0.1	11.4	182
D00007987	0.25	1.23	34	0.2	8.98	69
D00007988	0.27	0.72	28	0.2	5.55	70
D00007989	0.26	0.84	34	0.1	6.77	259
D00007990	0.31	2.63	19	<0.1	11.1	198
D00007991	0.18	2.33	13	0.4	7.93	139
D00007992	0.41	8.27	11	0.5	20.7	248
D00007993	0.16	4.03	7	0.2	11.6	205
D00007994	0.14	3.40	10	0.4	7.46	113
D00007995	0.47	5.07	13	0.3	11.5	157
D00007996	0.62	5.88	16	0.3	33.3	373
D00007997	1.08	6.46	23	0.2	37.5	402
D00007998	0.83	6.15	36	0.4	25.7	384
D00007999	0.73	2.90	24	0.3	9.30	149
D00008000	<0.02	0.08	<1	<0.1	0.70	1
B00266382	0.26	3.84	25	0.6	22.0	203
B00266383	0.10	2.90	8	0.2	5.76	52
B00266384	0.91	10.1	14	0.6	41.0	164
B00266385	0.32	3.47	9	0.3	13.6	165
B00266386	0.36	5.08	6	0.3	17.8	231
B00266387	0.32	5.52	7	0.2	14.5	313
B00266388	0.66	4.11	22	0.3	16.6	408
B00266389	0.72	2.74	26	0.2	15.4	1110
B00266390	0.26	3.59	18	0.2	22.5	305
B00266391	0.59	4.51	32	0.3	17.6	251
B00266392	0.30	2.82	24	4.4	11.3	198
B00266393	0.35	2.16	26	0.2	15.0	246
B00266394	0.23	1.54	26	0.2	5.19	72
B00266395	0.11	1.29	27	0.3	3.45	80
B00266396	0.10	1.34	19	0.2	4.92	173
B00266397	0.07	6.37	4	<0.1	25.0	78
B00266398	0.15	2.51	19	0.3	15.2	111
B00266399	0.16	1.29	36	0.4	7.25	33
B00266400	<0.02	0.10	<1	<0.1	0.64	1

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Final : VC172800 Order: PO# BMC17-01015

Report File No.: 0000024730

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00007983	0.09	2.22	7	<0.1	13.0	16
*Std OREAS920	0.16	2.35	23	0.6	19.1	103
*Std OREAS151B	0.14	0.68	139	0.7	11.6	239
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC172818
[Report File No.: 0000024919]

Date: September 26, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

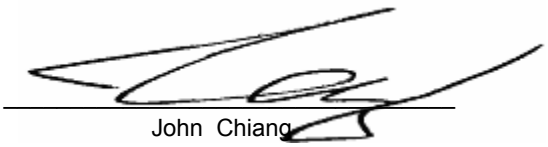
P.O. No.: PO# BMC17-01014
Project No.: KZK
Samples: 22
Received: Aug 28, 2017
Pages: Page 1 to 8
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
22	G_LOG02	Pre-preparation processing, sorting, logging, boxing
22	G_WGH79	Weighing of samples and reporting of weights
22	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
22	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
22	GE_IMS14B	Aqua Regia digestion/ICP-MS package
22	GO_XRF76V	Ore grade Borate fusion, XRF

Storage: Pulp & Reject

PULP STORAGE : STORE FOR 90 DAYS
REJECT STORAGE : STORE FOR 30 DAYS

Certified By : 
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00005863	1.425	<5	0.24	0.18	6	86	0.25	0.33
D00005864	2.285	<5	0.12	0.14	4	122	0.17	0.28
D00005865	2.615	10	1.47	0.14	18	121	0.19	0.36
D00005867	2.110	<5	0.11	0.16	3	94	0.10	0.01
D00005869	1.865	<5	0.26	0.17	10	985	0.16	<0.01
D00005870	1.765	<5	0.11	0.20	<1	72	0.11	0.01
D00005871	2.230	<5	0.17	0.14	11	167	0.23	0.03
D00005872	2.095	8	0.34	0.12	8	100	0.20	<0.01
D00005873	1.945	<5	0.28	0.51	3	>10000	0.65	0.02
D00005874	2.670	<5	0.48	0.69	<1	422	1.34	1.31
D00005911	2.145	<5	0.07	0.16	<1	65	0.20	0.43
D00005912	1.985	<5	0.33	0.21	3	96	0.24	0.03
D00005913	2.150	<5	0.14	0.22	3	58	0.31	0.04
D00005914	1.915	<5	0.04	0.23	1	109	0.08	0.04
D00005915	2.480	<5	0.09	0.20	<1	61	0.15	0.30
D00005916	2.425	<5	0.10	0.24	<1	66	0.18	0.07
D00005917	2.825	<5	0.09	0.19	3	134	1.43	0.03
D00005918	1.985	<5	0.06	0.20	7	397	0.17	<0.01
D00005919	2.105	<5	0.07	0.25	<1	37	0.79	0.27
D00005920	2.515	<5	<0.01	0.87	5	17	0.12	2.11
D00005921	2.875	<5	<0.01	0.85	13	260	0.08	4.28
B00267756	1.350	<5	0.02	4.38	14	23	<0.02	3.47
*Rep B00267756			<0.01	4.15	15	23	<0.02	3.50
*Blk BLANK			<0.01	<0.01	<1	<5	<0.02	<0.01
*Rep D00005874		<5						
*Std OXN117		7620						
*Blk BLANK		<5						
*Std OREAS209			0.25	1.12	1080	68	0.06	1.40

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00005863	0.09	10.4	0.4	9	1.0	0.62	0.7	0.02
D00005864	0.02	40.8	0.2	8	1.6	0.71	1.1	0.02
D00005865	0.04	30.2	0.6	9	2.4	0.78	0.8	0.05
D00005867	0.05	73.3	0.2	11	1.7	0.53	1.3	<0.01
D00005869	0.03	70.1	0.2	8	1.6	0.69	1.4	0.02
D00005870	0.69	75.5	0.5	9	2.8	0.92	1.5	0.01
D00005871	0.03	55.8	0.4	18	1.4	0.70	1.0	0.02
D00005872	0.02	65.1	0.1	11	1.9	0.62	0.9	0.05
D00005873	0.06	16.0	0.4	12	5.9	0.75	1.5	0.63
D00005874	2.96	232	2.7	5	5.3	1.95	3.9	0.02
D00005911	0.26	93.4	1.0	7	2.0	0.41	1.6	0.01
D00005912	0.24	73.4	0.7	9	1.9	0.44	1.6	0.04
D00005913	0.38	71.7	0.5	11	1.7	0.41	1.4	0.15
D00005914	0.33	74.7	0.7	9	2.1	0.45	1.5	0.03
D00005915	0.91	87.4	1.1	9	2.4	0.37	1.6	0.02
D00005916	0.59	85.1	1.2	9	3.5	0.39	1.9	0.02
D00005917	0.05	107	0.4	16	1.4	0.66	1.8	0.01
D00005918	0.03	67.5	0.2	14	1.1	0.78	1.4	0.01
D00005919	0.18	75.6	0.7	9	3.6	0.43	1.5	<0.01
D00005920	0.13	14.9	5.9	46	5.6	1.02	2.9	0.01
D00005921	0.10	35.1	10.5	49	6.7	1.20	2.8	0.01
B00267756	0.13	37.2	30.0	117	8.6	8.21	18.8	<0.01
*Rep B00267756	0.12	37.4	28.9	117	9.3	8.30	19.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Std OREAS209	0.07	26.8	30.2	40	77.0	5.93	3.6	0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00005863	0.23	5.1	0.01	48	2.37	0.02	1.6	120
D00005864	0.20	18.3	<0.01	37	2.26	0.03	1.2	70
D00005865	0.20	15.0	<0.01	47	3.12	0.03	2.6	80
D00005867	0.18	35.8	<0.01	40	1.74	0.03	1.5	150
D00005869	0.20	34.9	<0.01	36	2.33	0.02	1.2	<50
D00005870	0.23	37.7	<0.01	237	1.27	0.03	2.0	90
D00005871	0.21	24.6	<0.01	45	3.69	0.02	2.0	<50
D00005872	0.20	32.0	<0.01	38	3.47	0.02	1.1	60
D00005873	0.28	9.1	<0.01	50	2.56	0.03	2.0	90
D00005874	0.23	87.6	0.33	1180	2.27	0.05	4.7	830
D00005911	0.15	45.7	<0.01	140	0.71	0.04	2.5	140
D00005912	0.21	27.6	<0.01	44	1.29	0.03	2.1	150
D00005913	0.20	33.1	<0.01	45	1.39	0.03	2.5	130
D00005914	0.19	35.2	<0.01	56	1.08	0.04	2.3	170
D00005915	0.18	42.2	<0.01	168	0.90	0.03	4.7	150
D00005916	0.24	41.2	0.01	63	1.10	0.03	3.9	150
D00005917	0.24	54.9	<0.01	87	10.7	0.03	1.7	120
D00005918	0.25	31.6	<0.01	57	3.11	0.03	1.5	130
D00005919	0.17	35.3	0.01	93	1.00	0.02	1.6	60
D00005920	<0.01	4.3	0.35	251	0.40	0.03	12.4	1240
D00005921	0.10	21.7	0.35	560	0.62	0.02	25.9	1970
B00267756	0.07	17.4	3.13	1130	1.15	0.04	35.0	1770
*Rep B00267756	0.07	17.3	3.00	1120	1.24	0.04	33.2	1660
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	0.01	<0.5	<50
*Std OREAS209	0.07	13.9	2.44	1380	2.03	0.16	119	1630

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00005863	6.4	6.7	0.15	0.5	0.3	4.9	8.3	<0.01
D00005864	5.8	5.5	0.44	0.4	0.6	4.4	10.5	<0.01
D00005865	42.8	5.2	2.72	0.4	<0.3	4.6	13.0	<0.01
D00005867	9.5	6.6	0.24	0.4	<0.3	2.6	19.6	<0.01
D00005869	42.7	8.6	0.26	0.3	0.4	2.6	13.8	<0.01
D00005870	46.7	12.6	0.10	0.5	0.4	1.3	19.1	<0.01
D00005871	4.1	6.7	0.44	0.4	<0.3	4.5	7.2	<0.01
D00005872	44.8	5.0	0.79	0.3	<0.3	4.0	10.9	<0.01
D00005873	11.1	5.9	0.34	0.5	<0.3	11.6	9.9	<0.01
D00005874	45.2	10.3	0.06	1.7	<0.3	19.4	24.3	<0.01
D00005911	2.6	4.2	0.09	0.5	<0.3	10.5	17.3	<0.01
D00005912	5.2	7.8	0.97	0.5	<0.3	2.7	17.8	<0.01
D00005913	3.1	7.2	0.14	0.4	<0.3	2.2	16.6	<0.01
D00005914	2.9	8.0	0.30	0.4	<0.3	3.3	17.2	<0.01
D00005915	4.4	7.2	0.13	0.4	<0.3	6.0	16.8	<0.01
D00005916	1.9	11.0	0.21	0.4	<0.3	2.7	17.7	<0.01
D00005917	3.3	9.0	0.34	0.6	0.8	3.2	15.7	<0.01
D00005918	3.4	8.3	0.10	0.5	<0.3	7.4	17.1	<0.01
D00005919	4.1	4.7	<0.05	0.3	0.4	5.2	19.4	<0.01
D00005920	3.1	0.5	0.12	3.6	0.7	118	1.9	0.48
D00005921	3.5	4.2	0.06	3.7	0.7	139	1.1	0.51
B00267756	4.0	5.6	<0.05	28.0	0.6	136	3.1	0.36
*Rep B00267756	3.8	5.6	<0.05	26.4	0.6	125	3.1	0.37
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Std OREAS209	3.2	3.8	1.07	3.7	0.8	58.1	2.3	0.15

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Element	Tl	U	V	W	Y	Zn	@LOI	@SiO2
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GO_XRF76V	GO_XRF76V
Det.Lim.	0.02	0.05	1	0.1	0.05	1	-10.000	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%
D00005863	0.12	2.01	<1	0.5	6.61	8	0.910	75.2
D00005864	0.04	1.20	<1	0.5	3.61	4	1.11	75.9
D00005865	0.19	1.30	<1	0.7	4.88	7	1.08	74.7
D00005867	0.09	4.04	<1	0.7	10.0	7	0.220	77.1
D00005869	0.05	0.85	<1	0.3	3.62	10	0.650	78.1
D00005870	0.07	2.97	<1	0.1	3.92	207	0.800	76.3
D00005871	0.06	0.98	<1	4.3	3.12	6	0.570	77.5
D00005872	0.12	1.04	<1	0.3	3.31	13	0.230	77.2
D00005873	0.10	0.67	<1	0.2	1.98	45	0.400	77.7
D00005874	0.07	1.26	2	0.2	18.1	264	3.52	67.9
D00005911	0.06	2.48	<1	0.2	13.2	14	0.720	77.5
D00005912	0.04	2.84	<1	0.3	10.4	368	0.390	75.9
D00005913	0.04	1.83	<1	0.6	8.87	680	0.350	77.3
D00005914	0.04	1.37	<1	0.2	7.75	90	0.450	76.6
D00005915	0.04	1.39	<1	0.1	9.75	263	1.08	75.0
D00005916	0.05	1.56	<1	1.1	7.36	303	0.570	75.9
D00005917	0.09	4.32	<1	1.1	5.78	17	0.350	76.9
D00005918	0.05	1.67	1	0.1	3.45	5	0.730	75.3
D00005919	0.04	4.07	<1	0.3	14.7	27	1.16	79.7
D00005920	<0.02	0.51	34	0.4	7.62	23	2.49	45.0
D00005921	0.02	0.75	42	0.4	6.27	26	4.85	40.9
B00267756	0.05	0.19	261	<0.1	14.7	143	6.78	48.5
*Rep B00267756	0.05	0.20	250	<0.1	15.1	137		
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1		
*Rep D00005921							4.83	40.6
*Std RM183-89							0.750	41.8
*Blk BLANK							N.A.	<0.01
*Std OREAS209	0.03	0.45	43	0.4	13.1	80		

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Element	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O	@Na2O	@TiO2	@MnO
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Units	%	%	%	%	%	%	%	%
D00005863	12.1	1.16	0.15	0.51	8.96	0.61	0.27	0.01
D00005864	11.4	1.14	0.02	0.42	7.81	1.43	0.27	<0.01
D00005865	11.5	1.23	0.07	0.53	8.19	1.28	0.27	<0.01
D00005867	12.0	0.91	0.04	0.03	7.99	1.58	0.29	<0.01
D00005869	11.2	1.29	0.05	<0.01	7.93	0.55	0.18	<0.01
D00005870	11.3	1.67	0.08	0.02	7.36	1.37	0.19	0.03
D00005871	11.1	1.09	0.06	0.04	9.15	0.29	0.28	<0.01
D00005872	11.0	0.92	0.05	<0.01	9.26	0.27	0.26	0.01
D00005873	9.61	1.18	0.05	0.03	5.91	0.35	0.22	0.01
D00005874	14.6	4.11	1.10	1.98	2.98	3.28	0.58	0.15
D00005911	11.5	0.76	0.06	0.65	5.76	2.67	0.28	0.02
D00005912	12.3	0.80	0.03	0.05	8.15	1.38	0.29	<0.01
D00005913	11.9	0.72	0.03	0.06	8.17	1.18	0.29	<0.01
D00005914	12.3	0.77	0.04	0.06	7.79	1.65	0.30	0.01
D00005915	12.2	0.75	0.05	0.46	7.95	1.46	0.29	0.03
D00005916	12.8	0.85	0.05	0.11	8.08	1.46	0.31	<0.01
D00005917	11.4	1.20	0.06	0.06	8.20	1.05	0.27	0.01
D00005918	12.3	1.39	0.02	0.01	8.19	1.32	0.28	0.01
D00005919	10.6	0.80	0.10	0.41	6.63	0.30	0.14	0.01
D00005920	14.2	10.5	6.44	18.2	0.09	0.70	2.32	0.20
D00005921	12.7	10.8	5.71	21.1	0.26	0.39	3.11	0.23
B00267756	13.9	12.7	5.36	6.20	0.11	3.36	2.62	0.16
*Rep D00005921	12.6	10.8	5.70	21.0	0.26	0.40	3.11	0.23
*Std RM183-89	1.68	49.7	0.06	0.02	0.37	<0.01	0.06	0.07
*Blk BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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Final : VC172818 Order: PO# BMC17-01014

Report File No.: 0000024919

Element	@P2O5	@Cr2O3	@V2O5	Sum
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	0.01	0.01	0
Units	%	%	%	%
D00005863	0.03	<0.01	<0.01	100.0
D00005864	0.02	<0.01	<0.01	99.6
D00005865	0.02	<0.01	<0.01	98.9
D00005867	0.04	0.01	<0.01	100.3
D00005869	0.01	<0.01	<0.01	99.9
D00005870	0.03	<0.01	<0.01	99.1
D00005871	0.02	0.01	<0.01	100.1
D00005872	0.02	<0.01	<0.01	99.3
D00005873	0.03	<0.01	<0.01	95.5
D00005874	0.19	<0.01	<0.01	100.4
D00005911	0.04	<0.01	<0.01	100.0
D00005912	0.04	<0.01	<0.01	99.3
D00005913	0.04	<0.01	<0.01	100.0
D00005914	0.04	<0.01	<0.01	100.0
D00005915	0.03	<0.01	<0.01	99.3
D00005916	0.04	<0.01	<0.01	100.3
D00005917	0.03	<0.01	<0.01	99.5
D00005918	0.03	0.01	<0.01	99.6
D00005919	0.02	<0.01	<0.01	99.9
D00005920	0.30	0.05	0.05	100.6
D00005921	0.49	0.05	0.06	100.6
B00267756	0.40	0.02	0.06	100.2
*Rep D00005921	0.47	0.05	0.05	100.2
*Std RM183-89	0.04	<0.01	<0.01	94.6
*Blk BLANK	<0.01	<0.01	<0.01	N.A.

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Certificate of Analysis
Work Order : VC173360
[Report File No.: 0000025558]

Date: October 29, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01017
Project No.: KZK
Samples: 76
Received: Sep 25, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00004681	0.135	5	0.33	1.88	63	252	0.37	1.30
D00004682	0.435	7	0.38	1.71	29	100	0.48	0.81
D00004683	0.305	<5	0.23	1.09	21	89	0.28	0.13
D00004684	0.375	7	1.23	1.74	114	130	0.66	1.24
D00004685	0.420	5	0.10	2.20	83	203	0.60	0.53
D00004686	0.330	8	0.59	2.38	426	465	0.38	1.01
D00004687	0.405	<5	0.02	1.77	10	87	0.72	0.27
D00004688	0.185	9	0.37	1.28	16	104	0.40	0.62
D00004689	0.225	7	0.46	1.89	36	117	0.27	0.86
D00004690	0.320	<5	0.06	1.54	13	87	0.34	0.27
D00004691	0.330	<5	0.15	0.64	4	54	0.97	0.07
D00004692	0.350	6	0.11	3.05	2	150	0.39	0.44
D00004693	0.465	<5	0.16	3.21	4	225	0.89	0.49
D00004694	0.475	<5	0.13	1.30	2	85	0.57	0.30
D00004695	0.365	<5	0.03	3.21	<1	161	0.37	0.58
D00004696	0.305	<5	0.08	1.59	4	91	1.14	0.06
D00004697	0.385	<5	0.14	2.27	2	106	0.65	0.60
D00004698	0.400	<5	0.14	2.85	3	140	0.91	0.45
D00004699	0.330	<5	0.16	4.16	10	464	2.17	0.53
D00004700	0.370	<5	0.20	4.11	10	468	3.66	0.58
D00004701	0.630	<5	0.14	1.93	14	112	0.26	0.28
D00004702	0.330	9	0.68	1.09	7	174	0.13	1.03
D00004703	0.725	<5	0.06	1.97	9	46	0.22	0.20
D00004704	0.590	8	0.22	2.04	17	170	0.26	0.48
D00004951	0.500	6	0.11	2.44	16	128	0.34	0.44
D00004952	0.590	13	0.74	1.30	35	193	1.01	0.51
D00004953	0.575	10	0.30	2.57	17	231	0.81	0.61
D00004954	0.505	8	0.17	2.09	26	160	0.31	0.65
D00004955	0.480	7	0.09	2.65	4	299	0.15	0.52
D00004956	0.665	14	0.14	1.84	10	220	0.36	0.40
D00004957	0.625	<5	0.15	2.25	4	186	0.40	0.50
D00004958	0.330	12	0.47	1.98	15	481	0.40	1.12
D00004959	0.830	<5	0.14	2.22	10	92	0.25	0.30
D00004960	0.395	11	0.96	2.15	8	191	0.56	0.30
D00004961	0.550	<5	0.11	1.46	7	95	0.24	0.16
D00004962	0.510	<5	0.35	0.91	7	83	0.14	0.18
D00004963	0.515	6	0.32	1.93	10	133	0.30	0.32
D00004964	0.550	<5	0.16	1.49	8	181	0.42	0.41
D00004965	0.505	<5	0.10	0.98	3	117	0.22	0.19
D00004966	0.515	10	0.09	1.22	4	129	0.28	0.32

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00004967	0.540	<5	0.06	1.94	23	165	0.28	0.31
D00004968	0.570	7	0.10	0.89	4	70	0.11	0.26
D00004969	0.750	<5	0.06	3.10	11	123	0.31	0.43
D00004970	0.740	<5	0.06	2.74	20	117	0.24	0.46
D00004971	0.790	7	0.23	2.39	27	150	0.51	0.38
D00004972	0.720	<5	0.05	1.48	14	155	0.35	0.49
D00004973	0.905	7	0.26	2.17	22	119	0.15	0.36
D00004974	0.485	8	0.26	2.15	10	276	0.18	0.66
D00004975	0.590	6	0.48	1.52	13	186	0.61	0.44
D00004976	0.645	9	0.48	1.72	18	137	0.62	0.42
D00004977	0.505	16	0.14	1.91	9	154	0.25	0.39
D00004978	0.635	8	0.33	1.83	18	137	0.63	0.32
D00004979	0.725	<5	0.21	2.05	16	144	0.62	0.46
D00004980	0.390	<5	0.29	0.53	4	95	0.22	0.37
D00004981	0.575	8	0.79	1.09	3	220	0.61	0.51
D00004982	0.280	21	3.76	0.61	5	299	0.17	0.79
D00004983	0.875	<5	0.28	1.74	13	110	0.37	0.36
D00004984	0.550	14	0.14	1.69	8	151	0.27	0.28
D00004985	0.325	13	0.33	1.49	6	300	0.37	0.89
D00004986	0.270	8	0.29	0.50	2	164	0.09	1.31
D00004987	0.975	<5	0.04	2.38	13	197	0.42	0.41
D00004988	0.660	<5	0.06	1.55	13	50	0.29	0.11
D00004989	0.760	6	0.15	2.22	13	98	0.27	0.29
D00004990	0.625	8	0.13	1.25	16	224	0.42	0.51
D00004991	0.885	<5	0.20	1.94	9	134	0.29	0.37
D00004992	1.040	<5	0.13	1.64	10	103	0.29	0.35
D00004993	0.260	8	2.30	2.54	21	330	0.71	0.60
D00004994	0.280	9	0.62	0.68	8	60	0.30	0.08
D00004995	0.275	8	0.49	0.69	4	313	0.12	0.99
D00004996	0.875	5	0.02	1.88	10	132	0.25	0.44
D00004997	0.790	<5	0.07	1.91	10	79	0.17	0.24
D00004998	0.785	<5	0.20	2.09	16	147	0.30	0.29
D00004999	0.665	<5	0.06	1.94	22	65	0.23	0.14
D00005000	0.755	<5	0.03	2.14	17	42	0.21	0.20
D00006101	0.605	23	0.35	1.17	128	103	0.21	0.10
D00006102	0.590	13	0.32	0.73	50	81	0.25	0.05
*Rep D00004685		<5						
*Rep D00004976		6						
*Rep D00004980		<5						
*Std OREAS151B		67						

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Final : VC173360 Order: PO# BMC17-01017

Report File No.: 0000025558

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Std OXK119	3900						
*Std AMIS0474	173						
*Blk BLANK	<5						
*Rep D00004682		0.36	1.69	29	101	0.42	0.81
*Rep D00004978		0.33	1.85	19	140	0.62	0.33
*Rep D00004981		0.75	1.08	4	213	0.58	0.52
*Std OREAS920		0.11	2.20	4	70	0.68	0.32
*Std OREAS151B		0.53	2.31	32	67	0.39	1.37
*Std OREAS902		0.28	0.48	583	13	8.29	4.17
*Std OREAS151B		0.51	2.48	33	68	0.38	1.37
*Std OREAS902		0.28	0.52	589	14	8.19	4.06
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Std AMIS0474	173						

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00004681	1.31	56.8	15.0	41	29.1	4.64	6.1	0.05
D00004682	9.20	35.3	7.5	40	73.8	3.09	5.8	<0.01
D00004683	0.33	16.1	5.2	41	14.6	1.70	4.2	0.01
D00004684	6.57	55.5	18.3	64	238	5.65	5.6	0.02
D00004685	0.45	52.9	19.6	64	91.0	4.70	7.6	<0.01
D00004686	4.69	68.9	23.9	47	172	5.41	8.9	0.01
D00004687	0.24	46.7	14.7	32	12.6	3.26	5.3	<0.01
D00004688	1.17	35.9	5.8	21	44.4	1.74	4.4	0.02
D00004689	3.56	63.2	16.2	31	72.8	3.25	5.7	0.01
D00004690	0.31	26.1	7.8	32	18.1	2.56	5.4	<0.01
D00004691	0.82	142	7.4	9	45.4	1.87	2.7	0.05
D00004692	3.93	125	24.2	25	27.3	5.87	11.3	0.03
D00004693	0.41	134	25.6	82	26.0	6.62	10.1	<0.01
D00004694	1.74	155	16.5	24	24.5	3.86	5.0	<0.01
D00004695	0.78	137	25.9	36	67.3	7.34	12.1	<0.01
D00004696	0.38	144	12.7	20	40.6	3.05	5.9	0.04
D00004697	2.02	149	17.7	18	36.2	5.35	8.5	0.02
D00004698	1.20	151	20.4	40	64.4	5.66	9.6	0.02
D00004699	0.13	191	35.3	103	193	8.10	14.6	0.02
D00004700	0.16	172	36.4	101	204	8.38	14.6	0.01
D00004701	0.24	42.5	14.9	42	38.1	3.69	5.8	<0.01
D00004702	8.95	106	5.7	11	183	1.24	3.2	0.08
D00004703	0.24	38.9	14.5	43	40.4	4.08	6.0	<0.01
D00004704	0.62	43.5	14.1	44	39.9	3.85	6.0	0.02
D00004951	0.17	74.7	18.5	44	13.2	4.60	9.1	0.02
D00004952	1.41	79.7	10.9	21	86.2	2.92	4.6	0.03
D00004953	0.89	77.2	19.1	41	39.0	5.03	7.7	0.02
D00004954	0.86	78.9	18.0	38	21.0	4.37	6.4	0.01
D00004955	0.25	44.4	19.4	46	14.8	4.75	9.4	<0.01
D00004956	0.42	74.8	13.1	35	20.1	3.44	6.9	0.02
D00004957	0.92	40.4	13.6	40	33.2	3.35	7.7	0.01
D00004958	1.86	103	22.4	41	64.6	3.75	6.0	0.08
D00004959	0.11	28.3	12.7	42	35.7	3.71	6.4	<0.01
D00004960	0.82	241	16.7	43	44.6	4.36	6.9	0.05
D00004961	0.13	47.3	7.3	24	15.6	2.62	5.2	0.01
D00004962	0.17	35.2	5.3	15	10.5	1.65	3.0	0.02
D00004963	0.98	64.2	12.0	36	42.7	2.60	5.4	0.03
D00004964	1.04	98.7	10.2	21	27.7	2.82	4.9	<0.01
D00004965	0.70	50.0	5.4	14	10.2	1.72	3.6	<0.01
D00004966	0.96	58.0	6.9	17	12.0	2.13	4.1	0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00004967	0.36	38.6	10.7	41	19.6	4.12	5.6	<0.01
D00004968	0.15	19.4	6.2	13	16.1	1.52	2.8	<0.01
D00004969	0.55	56.7	24.6	84	72.6	5.72	8.7	0.01
D00004970	1.32	47.1	28.5	157	71.9	6.01	6.7	0.02
D00004971	0.21	48.5	15.3	42	34.8	3.73	6.9	0.01
D00004972	0.19	43.2	13.2	36	23.3	3.71	4.4	0.01
D00004973	0.11	39.1	16.5	70	76.0	5.76	5.6	<0.01
D00004974	0.47	37.9	15.6	36	27.2	4.05	6.4	0.02
D00004975	0.62	62.4	16.8	32	43.1	3.10	4.4	0.02
D00004976	0.66	123	10.5	38	70.5	2.94	5.3	0.02
D00004977	0.30	42.7	14.2	31	14.7	3.43	6.6	0.02
D00004978	0.65	55.4	14.3	27	29.5	3.51	6.1	0.02
D00004979	0.81	43.4	14.1	60	58.4	3.44	6.7	<0.01
D00004980	0.83	39.3	1.9	9	35.2	0.65	2.1	0.02
D00004981	7.35	89.5	4.3	21	103	1.51	4.6	0.06
D00004982	2.35	110	16.8	16	101	1.35	1.4	0.28
D00004983	0.20	36.3	9.7	33	18.0	3.61	6.7	<0.01
D00004984	0.31	49.0	9.8	32	10.0	3.05	6.5	0.02
D00004985	1.60	90.6	10.0	30	49.4	2.67	5.1	0.02
D00004986	2.02	102	2.7	5	54.4	0.71	2.2	0.05
D00004987	0.16	78.4	20.2	35	25.9	4.72	8.3	<0.01
D00004988	0.19	33.3	13.3	36	31.2	4.27	5.6	0.01
D00004989	0.12	86.3	32.9	45	48.5	4.75	7.3	0.03
D00004990	0.40	49.0	6.7	22	23.6	2.76	5.4	<0.01
D00004991	0.12	29.0	11.3	42	15.9	3.72	6.8	0.01
D00004992	0.19	30.9	17.4	33	14.8	3.29	6.0	<0.01
D00004993	2.32	133	26.0	54	106	5.03	8.5	0.11
D00004994	1.13	47.7	2.6	15	8.9	1.78	3.5	0.10
D00004995	1.29	291	13.7	14	50.0	2.21	2.8	0.16
D00004996	0.11	21.9	8.9	44	9.8	3.92	6.7	<0.01
D00004997	0.23	24.3	12.8	72	26.6	3.66	5.7	<0.01
D00004998	0.20	42.1	14.3	53	37.7	4.59	6.3	0.03
D00004999	0.30	55.2	18.2	50	40.2	4.83	6.1	<0.01
D00005000	0.16	54.3	14.8	50	48.5	4.50	6.2	0.01
D00006101	0.20	36.1	8.8	21	13.3	2.93	3.2	0.04
D00006102	0.21	36.9	5.1	15	7.1	2.20	2.9	0.03

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00004682	8.99	36.3	7.6	40	73.7	3.01	5.6	<0.01
*Rep D00004978	0.64	57.2	14.4	28	30.4	3.73	6.3	0.03
*Rep D00004981	7.41	85.4	4.3	22	102	1.43	4.4	0.04
*Std OREAS920	0.05	67.9	14.1	44	115	3.49	6.4	<0.01
*Std OREAS151B	0.57	16.3	10.9	28	1810	3.24	7.2	<0.01
*Std OREAS902	0.02	28.8	926	22	2860	2.93	1.4	0.03
*Std OREAS151B	0.57	15.6	11.1	28	1870	3.38	7.1	0.02
*Std OREAS902	0.02	30.6	949	21	3060	3.03	1.5	0.04
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00004681	0.34	48.1	0.90	873	1.69	0.02	27.2	1230
D00004682	0.10	22.9	1.06	275	9.80	0.01	73.4	2450
D00004683	0.06	8.6	0.44	133	1.64	0.02	18.8	880
D00004684	0.18	41.3	1.39	545	9.99	0.01	153	2200
D00004685	0.45	21.8	1.57	774	4.47	0.01	64.4	1360
D00004686	0.55	41.2	1.69	795	7.12	0.01	76.0	2490
D00004687	0.10	16.8	0.71	324	1.74	<0.01	29.3	830
D00004688	0.09	42.3	0.41	192	2.16	0.02	16.8	750
D00004689	0.11	61.7	0.80	512	2.90	0.01	45.1	700
D00004690	0.09	11.9	0.68	258	3.02	0.01	20.1	810
D00004691	0.18	76.2	0.17	1290	2.57	0.01	6.8	630
D00004692	1.35	49.3	1.60	2100	2.41	0.02	13.3	1020
D00004693	1.26	68.8	1.75	1590	2.18	0.02	39.0	790
D00004694	0.65	109	0.58	1310	2.83	0.01	20.4	860
D00004695	1.42	56.9	1.54	2000	1.62	0.02	14.3	1740
D00004696	0.34	76.2	0.52	1010	2.57	0.01	10.9	770
D00004697	1.13	77.3	1.23	1580	3.30	0.01	16.8	1810
D00004698	1.61	78.0	1.62	1470	3.68	0.02	22.1	1100
D00004699	2.17	97.2	2.76	1570	13.4	0.02	39.0	990
D00004700	2.29	89.6	2.72	1790	13.5	0.02	40.1	1160
D00004701	0.08	25.4	0.93	451	2.63	0.01	35.6	1330
D00004702	0.03	105	0.16	808	3.68	0.02	36.0	1240
D00004703	0.06	18.4	1.07	439	2.36	0.01	35.2	1070
D00004704	0.10	28.0	1.08	407	2.70	0.01	34.9	870
D00004951	0.85	46.0	1.25	742	2.15	0.02	18.2	780
D00004952	0.33	49.7	0.55	479	2.17	0.02	13.3	870
D00004953	0.85	48.0	1.28	759	1.62	0.01	19.1	940
D00004954	0.72	41.1	1.12	893	1.58	0.01	20.2	940
D00004955	0.97	20.8	1.42	662	1.10	0.01	13.5	1250
D00004956	0.41	31.2	0.78	1060	1.90	0.01	14.2	970
D00004957	0.55	21.7	1.13	391	1.21	0.01	18.7	1300
D00004958	0.27	49.9	0.92	2500	2.75	0.01	30.5	1520
D00004959	0.29	15.1	1.23	408	1.46	0.01	24.9	1060
D00004960	0.54	140	0.85	1490	2.79	0.01	26.6	980
D00004961	0.17	23.2	0.65	380	1.46	0.02	13.3	800
D00004962	0.05	27.2	0.23	205	1.05	0.02	7.2	1100
D00004963	0.10	40.5	0.94	217	2.51	0.01	31.0	880
D00004964	0.40	48.1	0.70	657	1.47	0.01	14.4	1100
D00004965	0.21	25.7	0.37	376	0.99	0.02	6.8	730
D00004966	0.30	28.6	0.50	464	1.47	0.01	8.3	880

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00004967	0.07	22.5	0.82	330	1.81	0.01	30.3	620
D00004968	0.03	10.0	0.21	255	0.87	0.03	10.0	820
D00004969	0.08	24.5	1.83	682	2.35	0.01	66.6	1670
D00004970	0.06	25.1	1.74	522	2.68	0.01	110	1890
D00004971	0.26	27.4	0.98	360	2.30	0.01	33.1	1420
D00004972	0.21	18.3	0.66	322	2.14	0.01	20.2	1270
D00004973	0.12	24.4	1.15	414	3.87	0.01	54.0	2300
D00004974	0.75	20.6	1.12	644	1.26	0.01	16.5	1140
D00004975	0.32	29.4	0.84	749	1.53	0.01	22.1	840
D00004976	0.20	67.3	0.87	317	1.21	0.01	24.4	990
D00004977	0.64	19.3	0.95	647	1.40	0.01	12.7	860
D00004978	0.58	28.8	0.89	663	1.89	0.01	15.5	690
D00004979	0.37	24.5	1.16	538	1.12	0.01	24.0	1570
D00004980	0.09	23.6	0.14	85	0.57	0.03	4.6	730
D00004981	0.20	48.5	0.46	141	1.06	<0.01	9.6	1240
D00004982	0.06	50.2	0.07	719	1.73	0.01	7.8	2720
D00004983	0.42	23.1	0.92	292	1.75	0.01	16.4	880
D00004984	0.47	29.3	0.83	321	1.51	0.01	13.3	790
D00004985	0.23	63.3	0.78	466	0.90	0.01	20.0	1020
D00004986	0.04	53.2	0.09	538	0.76	0.02	11.1	1190
D00004987	0.93	42.4	1.33	465	1.87	<0.01	22.5	1480
D00004988	0.10	16.5	0.59	350	2.37	<0.01	29.6	640
D00004989	0.38	46.7	1.06	580	2.13	<0.01	43.8	1170
D00004990	0.10	27.6	0.43	673	3.16	<0.01	11.6	1900
D00004991	0.37	15.8	1.15	429	1.50	0.01	20.9	830
D00004992	0.37	17.3	0.98	669	1.33	<0.01	16.6	880
D00004993	0.56	66.7	1.14	972	4.16	0.01	40.5	1570
D00004994	0.13	26.8	0.14	212	1.73	<0.01	4.2	1480
D00004995	0.09	122	0.16	2550	2.00	0.01	17.2	2590
D00004996	0.08	12.3	1.11	285	2.81	<0.01	25.0	1290
D00004997	0.12	12.3	1.04	331	1.66	0.01	48.1	1150
D00004998	0.20	22.4	1.04	351	3.20	<0.01	40.3	1250
D00004999	0.07	25.5	1.03	532	2.79	<0.01	48.6	820
D00005000	0.06	29.5	1.15	354	2.57	<0.01	41.5	920
D00006101	0.16	18.9	0.32	426	1.53	0.01	20.7	620
D00006102	0.14	19.6	0.14	203	1.99	0.01	11.9	550

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00004682	0.10	22.5	1.04	282	9.47	0.01	72.0	2430
*Rep D00004978	0.61	29.9	0.92	672	1.93	0.01	15.6	690
*Rep D00004981	0.20	46.9	0.45	137	1.07	<0.01	9.5	1250
*Std OREAS920	0.40	33.6	1.00	510	0.39	0.03	37.4	670
*Std OREAS151B	0.40	7.1	1.33	276	56.2	0.17	14.7	500
*Std OREAS902	0.24	13.4	2.01	456	11.9	0.01	165	640
*Std OREAS151B	0.42	7.3	1.36	280	55.7	0.17	14.9	510
*Std OREAS902	0.25	15.0	2.08	457	11.7	0.01	161	660
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00004681	25.1	59.0	0.16	4.6	0.4	47.4	4.9	0.10
D00004682	46.4	18.5	0.22	2.1	0.4	28.5	1.2	0.05
D00004683	15.7	13.2	0.10	0.6	0.3	7.5	<0.1	0.03
D00004684	78.7	23.9	0.28	6.4	<0.3	37.9	7.1	0.04
D00004685	36.1	43.9	0.18	5.7	0.5	21.3	6.0	0.16
D00004686	38.4	56.9	0.28	8.4	0.5	30.5	6.9	0.15
D00004687	9.3	13.3	0.06	2.7	0.4	17.8	5.6	0.05
D00004688	12.5	13.3	0.10	1.3	0.4	25.6	0.9	0.03
D00004689	9.3	23.8	0.12	2.9	<0.3	31.4	4.4	0.03
D00004690	12.3	12.5	0.12	1.5	0.4	12.1	0.5	0.05
D00004691	26.1	20.2	0.12	1.5	<0.3	11.6	11.0	0.03
D00004692	71.4	171	0.13	11.1	0.8	24.8	12.4	0.47
D00004693	50.6	187	0.25	13.4	0.8	25.5	11.3	0.44
D00004694	63.7	81.8	0.08	6.9	0.5	32.7	22.9	0.10
D00004695	16.2	187	0.11	12.3	0.8	31.3	10.1	0.50
D00004696	49.3	50.0	0.36	3.0	0.5	10.9	5.9	0.14
D00004697	140	145	0.09	9.1	0.8	41.5	21.0	0.36
D00004698	84.8	155	0.10	9.9	0.8	28.1	21.6	0.39
D00004699	26.1	145	0.10	13.5	1.7	28.5	27.4	0.38
D00004700	30.2	148	0.09	13.7	1.8	29.1	26.6	0.38
D00004701	31.6	12.3	0.15	2.3	<0.3	11.6	1.1	0.06
D00004702	13.9	2.7	0.41	1.2	<0.3	37.0	1.2	0.02
D00004703	23.8	9.8	0.17	2.9	<0.3	7.0	2.0	0.07
D00004704	28.3	13.2	0.16	3.3	<0.3	18.3	2.2	0.07
D00004951	36.0	108	0.14	5.7	0.6	22.0	10.5	0.23
D00004952	93.0	42.0	0.29	3.7	<0.3	39.4	8.5	0.11
D00004953	35.2	91.3	0.18	7.0	0.4	23.5	8.9	0.20
D00004954	32.4	82.8	0.13	5.9	<0.3	25.8	11.0	0.24
D00004955	10.3	76.9	0.18	4.8	0.4	18.8	4.9	0.26
D00004956	26.4	39.8	0.22	3.7	0.5	18.0	6.7	0.14
D00004957	29.5	42.8	0.21	5.3	0.4	19.3	11.1	0.19
D00004958	34.3	29.0	0.33	3.1	<0.3	47.2	3.1	0.08
D00004959	21.9	29.2	0.19	3.3	0.3	12.2	5.2	0.16
D00004960	48.8	56.4	0.19	5.9	0.5	15.3	22.2	0.16
D00004961	15.6	25.6	0.13	2.2	0.3	8.4	2.7	0.07
D00004962	14.4	5.3	0.11	0.5	<0.3	9.1	0.3	0.01
D00004963	36.2	14.7	0.13	2.6	<0.3	14.0	2.1	0.05
D00004964	22.0	33.1	0.19	3.5	0.3	17.8	9.7	0.13
D00004965	11.8	23.4	0.12	1.2	<0.3	9.7	1.1	0.07
D00004966	16.8	38.2	0.15	1.7	<0.3	13.8	1.9	0.09

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00004967	29.3	10.0	0.18	2.3	0.3	16.8	1.2	0.02
D00004968	8.9	3.9	0.10	0.9	<0.3	13.3	0.3	0.03
D00004969	67.0	12.0	0.33	7.0	0.5	12.9	2.6	0.13
D00004970	53.8	12.2	0.25	8.9	0.4	11.0	3.8	0.10
D00004971	13.5	34.4	0.11	4.7	0.7	14.1	7.0	0.09
D00004972	15.2	21.6	0.12	3.4	0.4	19.8	6.8	0.05
D00004973	7.9	12.5	0.17	5.0	0.4	28.8	4.4	0.25
D00004974	23.3	58.7	0.10	3.2	<0.3	28.8	4.7	0.20
D00004975	78.1	30.5	0.19	2.4	<0.3	25.4	5.4	0.11
D00004976	35.7	27.3	0.20	3.4	<0.3	25.8	10.6	0.08
D00004977	21.8	52.6	0.13	4.0	0.4	16.9	6.3	0.17
D00004978	34.2	51.6	0.20	3.9	0.4	20.7	8.1	0.16
D00004979	26.9	39.0	0.21	7.9	0.5	22.4	8.2	0.15
D00004980	28.7	6.9	0.10	0.9	<0.3	16.8	2.2	0.03
D00004981	99.6	22.9	0.27	3.0	0.3	24.5	6.5	0.07
D00004982	22.5	3.3	0.20	3.9	1.7	32.1	2.0	0.02
D00004983	22.0	40.7	0.21	3.9	0.9	17.1	8.4	0.18
D00004984	19.5	48.3	0.16	3.7	0.5	13.6	6.9	0.15
D00004985	30.0	33.8	0.17	2.8	<0.3	39.7	5.5	0.09
D00004986	5.9	2.2	0.23	0.7	<0.3	54.5	1.3	0.03
D00004987	25.4	74.4	0.14	5.7	0.6	14.5	12.0	0.23
D00004988	20.9	15.7	0.22	2.8	0.5	5.7	4.3	0.10
D00004989	13.5	40.6	0.15	5.8	0.6	11.8	10.1	0.16
D00004990	24.6	14.9	0.16	1.0	0.5	25.0	0.9	0.03
D00004991	20.5	35.2	0.16	3.1	0.4	15.1	5.1	0.18
D00004992	19.3	33.3	0.16	3.0	0.5	15.4	5.4	0.15
D00004993	71.8	56.0	0.40	8.0	0.6	35.4	11.9	0.13
D00004994	26.1	16.5	0.14	1.0	0.7	5.5	1.2	0.03
D00004995	10.7	6.8	0.29	2.4	<0.3	42.4	6.4	0.02
D00004996	24.3	10.9	0.12	2.7	0.3	13.8	2.0	0.10
D00004997	10.5	16.3	0.13	2.1	<0.3	8.0	1.0	0.09
D00004998	21.7	26.8	0.22	4.3	0.5	12.4	5.3	0.12
D00004999	24.2	11.9	0.22	3.0	<0.3	6.0	3.0	0.07
D00005000	29.8	10.3	0.17	3.6	<0.3	6.2	6.5	0.07
D00006101	24.8	11.0	1.54	2.1	0.6	15.7	3.6	0.05
D00006102	17.9	13.2	0.77	0.7	<0.3	10.7	0.7	0.04

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00004682	46.2	17.9	0.21	2.3	0.3	29.5	1.2	0.04
*Rep D00004978	35.2	55.2	0.19	4.0	0.4	20.4	8.4	0.16
*Rep D00004981	97.7	22.3	0.28	3.0	<0.3	24.8	6.5	0.07
*Std OREAS920	19.7	22.9	0.57	2.6	1.0	15.8	15.1	0.12
*Std OREAS151B	41.0	19.3	0.53	9.1	1.0	35.6	2.6	0.08
*Std OREAS902	10.0	8.3	0.81	2.7	<0.3	19.8	5.0	<0.01
*Std OREAS151B	40.2	19.4	0.49	9.2	0.9	35.6	2.5	0.08
*Std OREAS902	9.9	8.9	0.76	2.7	0.9	20.1	4.9	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00004681	0.37	11.0	60	0.1	32.7	243
D00004682	0.19	11.5	207	0.2	19.1	1760
D00004683	0.17	1.17	47	0.1	3.74	117
D00004684	0.23	9.68	136	0.3	33.2	1500
D00004685	0.36	2.94	126	0.2	9.87	366
D00004686	0.49	5.41	201	0.3	27.9	1030
D00004687	0.15	2.49	35	<0.1	10.9	130
D00004688	0.14	11.4	34	0.1	22.3	172
D00004689	0.20	27.2	42	<0.1	35.5	442
D00004690	0.13	2.26	54	0.1	5.95	139
D00004691	0.35	6.89	16	0.2	19.9	145
D00004692	1.22	3.06	137	0.1	20.0	323
D00004693	1.77	4.52	133	0.2	24.0	188
D00004694	0.73	13.9	55	0.2	52.0	239
D00004695	1.40	2.66	147	0.1	28.7	372
D00004696	0.51	4.63	46	0.3	13.9	112
D00004697	1.31	6.06	85	0.1	27.1	270
D00004698	1.19	7.11	103	0.1	33.9	286
D00004699	0.77	5.99	106	0.1	50.8	116
D00004700	0.80	5.92	104	0.1	50.4	119
D00004701	0.17	6.18	61	<0.1	10.2	335
D00004702	0.11	7.06	16	<0.1	46.5	158
D00004703	0.14	1.49	54	<0.1	7.47	224
D00004704	0.15	7.95	60	<0.1	16.9	407
D00004951	0.71	1.98	79	0.2	16.5	131
D00004952	0.38	2.74	44	0.1	15.6	339
D00004953	0.64	2.29	96	0.2	22.1	265
D00004954	0.68	2.16	78	<0.1	14.2	160
D00004955	0.46	1.16	120	0.2	8.91	116
D00004956	0.30	1.88	68	0.3	9.73	104
D00004957	0.34	1.38	74	0.1	9.50	258
D00004958	0.27	2.72	57	0.1	25.9	239
D00004959	0.29	0.91	61	<0.1	6.29	166
D00004960	0.44	3.37	56	0.1	27.5	199
D00004961	0.18	1.27	37	<0.1	6.87	113
D00004962	0.10	2.23	21	<0.1	10.3	38
D00004963	0.18	7.70	46	<0.1	23.4	357
D00004964	0.27	2.93	46	0.1	20.1	257
D00004965	0.17	1.44	31	<0.1	8.67	96
D00004966	0.22	1.45	36	<0.1	9.89	133

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00004967	0.13	1.92	53	0.1	11.0	230
D00004968	0.10	0.50	22	<0.1	4.35	75
D00004969	0.23	1.08	112	0.2	10.5	376
D00004970	0.31	1.64	96	0.1	12.6	357
D00004971	0.35	2.12	67	0.1	12.2	194
D00004972	0.25	1.51	40	<0.1	8.47	131
D00004973	0.25	3.52	72	0.1	8.98	173
D00004974	0.48	1.16	77	<0.1	8.90	165
D00004975	0.26	1.74	44	<0.1	11.1	201
D00004976	0.25	3.13	40	<0.1	20.4	177
D00004977	0.35	1.31	71	0.2	7.64	133
D00004978	0.40	1.66	63	0.2	9.71	229
D00004979	0.32	1.14	86	<0.1	9.03	285
D00004980	0.09	1.28	12	<0.1	8.87	112
D00004981	0.27	2.57	28	<0.1	16.8	313
D00004982	0.23	6.38	11	<0.1	21.1	29
D00004983	0.31	1.42	59	0.1	7.50	139
D00004984	0.36	1.57	55	0.1	9.41	108
D00004985	0.29	2.13	39	0.2	21.0	191
D00004986	0.05	1.74	14	<0.1	18.0	46
D00004987	0.55	1.38	96	0.1	12.6	132
D00004988	0.23	1.16	56	0.2	7.11	138
D00004989	0.40	1.87	64	0.1	18.6	137
D00004990	0.16	2.08	34	0.1	11.7	87
D00004991	0.28	0.85	60	0.1	5.88	139
D00004992	0.27	0.96	50	0.1	6.06	121
D00004993	0.61	5.05	79	0.2	21.3	245
D00004994	0.15	2.07	25	0.1	5.75	36
D00004995	0.13	5.92	13	<0.1	37.0	42
D00004996	0.13	0.82	66	0.1	4.94	232
D00004997	0.21	1.25	51	<0.1	6.00	190
D00004998	0.36	1.55	64	0.1	10.7	172
D00004999	0.13	1.75	55	0.1	10.1	240
D00005000	0.15	1.87	53	<0.1	9.03	247
D00006101	0.35	1.15	32	0.3	6.55	107
D00006102	0.18	1.16	28	0.4	4.09	70

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00004682	0.19	11.7	211	0.2	18.5	1750
*Rep D00004978	0.42	1.70	64	0.2	10.00	233
*Rep D00004981	0.26	2.44	27	0.1	16.6	312
*Std OREAS920	0.15	2.14	22	0.5	17.3	105
*Std OREAS151B	0.13	0.62	148	0.6	11.0	231
*Std OREAS902	0.23	2.25	7	2.1	7.51	5
*Std OREAS151B	0.13	0.60	146	0.6	11.1	233
*Std OREAS902	0.21	2.24	8	2.1	7.62	5
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC173361
[Report File No.: 0000025672]

Date: November 02, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01017
Project No.: KZK
Samples: 76
Received: Sep 25, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006103	0.685	10	0.35	0.62	84	56	0.20	0.05
D00006104	0.865	8	0.12	0.48	57	48	0.20	0.07
D00006105	0.795	7	0.09	0.50	18	64	0.16	0.08
D00006106	0.635	7	0.05	0.45	7	64	0.11	0.21
D00006107	0.630	5	0.14	0.51	6	50	0.13	0.05
D00006108	0.750	7	0.03	0.45	5	53	0.26	0.05
D00006109	0.440	7	0.09	0.44	5	52	0.16	0.13
D00006110	0.680	7	0.15	1.15	6	199	0.19	0.33
D00006111	0.530	8	0.44	0.77	3	94	0.12	0.36
D00006112	0.570	6	0.29	1.71	6	209	0.33	0.37
D00006113	0.790	8	0.13	2.10	8	59	0.22	0.26
D00006114	0.680	7	0.11	1.59	8	54	0.25	0.07
D00006115	0.785	6	0.04	1.44	9	53	0.29	0.18
D00006116	0.855	7	0.06	1.56	10	59	0.27	0.25
D00006117	1.205	7	0.04	1.51	9	67	0.21	0.23
D00006118	1.030	9	0.10	2.09	24	192	0.38	0.41
D00006119	1.105	<5	0.12	1.37	10	125	0.18	0.34
D00006120	0.800	6	0.15	1.46	9	122	0.23	0.31
D00006121	0.820	6	0.31	1.73	8	140	0.28	0.37
D00006122	0.780	5	0.61	2.25	16	107	0.30	0.29
D00006123	0.835	7	0.39	2.40	135	175	0.35	0.58
D00006124	0.710	10	0.13	1.45	36	110	0.19	0.26
D00006125	0.525	<5	0.05	0.87	9	106	0.25	0.28
D00006126	1.100	<5	0.11	2.24	26	63	0.09	0.54
D00006127	0.870	<5	0.31	1.84	28	372	0.20	0.50
D00006128	0.500	<5	0.13	0.93	20	58	0.25	0.07
D00006129	0.480	<5	0.27	1.74	38	70	0.20	0.16
D00006130	0.540	<5	0.12	0.87	13	61	0.15	0.13
D00006131	0.720	<5	0.13	1.44	21	92	0.24	0.34
D00006132	0.190	9	0.56	0.56	5	96	0.06	2.07
D00006133	0.415	<5	0.02	0.32	<1	20	0.02	0.11
D00006134	0.735	<5	0.12	1.24	9	83	0.22	0.14
D00006135	0.185	<5	1.11	0.78	4	96	0.11	0.27
D00006136	0.880	5	0.17	1.51	24	270	0.25	0.36
D00006137	0.420	8	1.78	2.72	20	200	0.39	1.11
D00006138	0.370	<5	0.22	0.55	3	36	0.11	0.05
D00006139	0.870	<5	0.04	1.23	8	55	0.24	0.23
D00006140	0.110	<5	<0.01	<0.01	<1	<5	<0.02	<0.01
D00006141	0.685	<5	0.10	1.35	9	81	0.28	0.30
D00006142	0.260	<5	0.06	0.64	4	30	0.07	0.06

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006143	0.710	<5	0.07	1.27	12	95	0.22	0.35
D00006144	0.650	<5	0.13	1.50	8	69	0.20	0.22
D00006145	0.760	<5	0.16	1.26	10	99	0.21	0.30
D00006146	0.600	8	0.23	1.59	12	104	0.22	0.27
D00006147	0.765	<5	0.15	1.43	8	67	0.24	0.32
D00006148	0.735	8	0.30	1.46	13	92	0.25	0.53
D00006149	0.470	<5	0.07	1.08	24	48	1.04	0.08
D00006150	0.730	<5	0.47	0.81	44	126	1.51	0.07
D00006151	0.795	<5	0.07	1.27	13	120	1.20	0.21
D00006152	0.750	<5	0.08	2.88	31	268	0.69	0.78
D00006153	0.835	7	0.03	1.08	9	76	0.90	0.05
D00006154	0.700	<5	0.22	1.58	27	101	1.99	0.08
D00006155	0.895	<5	0.80	0.95	40	79	4.08	0.11
D00006156	0.690	5	0.18	2.69	7	194	0.72	0.26
D00006157	0.515	<5	0.18	1.20	8	83	2.27	0.09
D00006158	0.650	6	0.04	1.29	10	156	0.44	0.20
D00006159	0.565	<5	0.92	1.75	181	108	5.51	0.42
D00006160	0.520	5	0.14	2.05	81	118	4.58	0.35
D00006161	0.545	<5	0.14	2.02	79	117	4.87	0.32
D00006162	0.935	5	0.10	1.53	2	115	1.53	0.28
D00006163	0.680	5	0.05	1.74	13	123	1.23	0.28
D00006164	0.475	<5	0.23	2.07	233	190	1.55	0.45
D00006165	0.515	6	0.25	2.50	8	123	2.55	0.52
D00006166	0.635	6	0.26	2.91	7	112	1.30	0.72
D00006167	0.770	5	0.13	1.75	82	137	1.14	0.40
D00006168	0.970	<5	0.16	2.33	5	204	0.97	0.51
D00006169	0.545	6	0.18	2.33	88	187	1.37	0.39
D00006170	0.485	6	0.43	1.83	13	76	4.29	0.31
D00006171	0.595	14	0.14	1.38	10	94	0.64	0.46
D00006172	0.740	<5	0.13	2.11	15	107	0.48	0.25
D00006173	0.830	6	0.02	1.01	29	46	0.25	0.13
D00006174	0.820	7	0.01	2.08	11	66	0.23	0.26
D00006175	0.745	7	0.08	1.34	20	60	0.35	0.17
D00006176	0.740	7	0.10	1.61	29	71	0.49	0.28
D00006177	0.600	6	0.03	1.52	15	51	0.41	0.12
D00006178	0.620	<5	0.15	0.73	9	32	0.22	0.22
*Rep D00006115		<5						
*Rep D00006150		<5						
*Rep D00006157		<5						
*Std OREAS151B		72						

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Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Std OXK119	3830						
*Std AMIS0474	184						
*Blk BLANK	<5						
*Blk BLANK	7						
*Rep D00006111		0.45	0.75	3	94	0.14	0.35
*Rep D00006155		0.82	0.95	39	77	4.07	0.11
*Rep D00006164		0.23	2.21	228	183	1.48	0.45
*Std OREAS920		0.09	2.29	4	89	0.70	0.30
*Std OREAS920		0.09	2.40	4	73	0.59	0.32
*Std OREAS151B		0.52	2.39	30	66	0.41	1.28
*Std OREAS902		0.29	0.50	592	14	8.72	4.05
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006103	0.32	30.7	4.4	16	10.6	1.78	3.2	0.10
D00006104	0.29	44.7	7.0	13	15.1	1.62	2.5	0.02
D00006105	0.10	46.5	5.6	10	10.5	1.47	1.9	<0.01
D00006106	0.06	39.1	3.3	10	6.4	1.20	2.2	0.02
D00006107	0.08	54.6	2.5	9	5.5	1.19	2.7	0.03
D00006108	0.05	41.8	1.7	8	4.7	0.79	3.3	<0.01
D00006109	0.36	30.1	2.6	10	5.4	0.88	2.4	0.01
D00006110	0.07	53.0	8.1	20	9.6	1.83	4.4	0.03
D00006111	0.14	18.5	3.1	13	9.8	1.19	3.6	0.01
D00006112	0.14	59.3	9.0	29	18.7	2.58	5.4	0.02
D00006113	0.22	29.6	12.1	59	21.8	3.87	6.8	0.01
D00006114	0.14	31.6	8.0	28	14.8	3.00	5.3	0.01
D00006115	0.09	35.7	6.8	25	12.5	2.43	5.3	<0.01
D00006116	0.25	41.2	11.8	29	32.8	3.13	5.5	<0.01
D00006117	0.14	46.5	8.0	25	16.0	2.46	5.0	<0.01
D00006118	0.34	80.7	18.7	46	49.2	3.90	6.8	<0.01
D00006119	0.11	50.0	8.9	30	18.6	2.36	4.5	<0.01
D00006120	0.29	58.9	12.1	26	26.1	2.72	4.9	<0.01
D00006121	0.57	70.6	14.2	33	34.5	2.67	5.5	0.02
D00006122	0.36	45.3	17.4	37	27.8	3.70	5.9	0.01
D00006123	0.18	52.1	21.0	46	40.0	4.82	7.5	0.01
D00006124	0.17	64.9	9.7	29	22.4	2.62	4.8	0.02
D00006125	0.15	44.4	3.6	9	5.5	1.02	5.1	0.01
D00006126	0.13	113	27.5	29	37.7	3.81	6.2	<0.01
D00006127	0.17	50.1	12.5	23	23.3	4.58	7.5	0.01
D00006128	0.17	33.2	5.8	25	13.0	2.21	7.2	<0.01
D00006129	0.20	29.3	9.4	28	11.1	3.51	7.0	0.02
D00006130	0.11	22.7	5.2	13	11.1	1.71	3.6	0.01
D00006131	0.16	26.2	6.9	23	11.7	2.54	5.9	<0.01
D00006132	1.10	22.5	1.1	7	17.6	0.21	1.0	0.12
D00006133	0.04	5.94	0.5	1	2.8	0.15	1.3	0.01
D00006134	0.12	41.8	5.9	24	14.8	2.16	4.6	0.02
D00006135	0.09	35.6	1.9	13	17.2	0.92	2.1	0.09
D00006136	0.41	58.8	17.5	47	48.9	3.31	4.7	0.11
D00006137	0.18	366	3.5	27	68.0	2.27	5.8	0.39
D00006138	0.08	13.9	1.4	9	5.7	0.68	1.6	0.04
D00006139	0.24	74.9	8.3	23	25.1	2.47	4.2	<0.01
D00006140	0.01	1.19	<0.1	2	0.6	0.02	<0.1	<0.01
D00006141	0.37	54.5	11.4	28	19.2	2.68	4.6	<0.01
D00006142	0.20	17.5	4.9	10	6.3	1.12	3.1	0.02

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006143	0.09	35.2	8.2	27	13.1	2.41	5.0	0.02
D00006144	0.10	48.7	10.3	27	23.2	2.98	4.5	0.02
D00006145	0.13	36.5	10.6	24	23.8	2.98	4.4	<0.01
D00006146	0.33	62.4	22.9	33	50.0	3.64	5.3	0.03
D00006147	0.22	44.6	7.3	26	16.6	2.70	5.1	0.02
D00006148	0.36	46.7	12.8	27	23.7	2.97	4.9	0.03
D00006149	0.24	56.4	8.9	15	14.6	2.45	3.9	0.04
D00006150	1.56	125	12.6	11	62.6	2.64	2.7	0.04
D00006151	0.35	79.4	14.1	13	154	4.19	4.4	0.03
D00006152	1.76	132	25.0	15	80.1	6.70	10.6	0.03
D00006153	0.12	63.7	5.2	15	57.0	2.51	3.6	0.03
D00006154	0.40	185	14.7	26	228	3.11	5.6	0.05
D00006155	1.35	210	17.4	14	163	2.91	3.3	0.11
D00006156	1.66	85.2	18.7	26	105	5.59	9.4	0.02
D00006157	1.10	52.2	9.0	25	109	2.87	4.6	0.07
D00006158	0.39	83.6	12.3	22	22.6	2.98	4.4	0.01
D00006159	1.28	93.9	20.2	15	134	4.60	6.9	0.04
D00006160	0.21	94.0	12.3	22	202	5.08	8.0	<0.01
D00006161	0.22	93.9	12.6	22	191	4.86	7.6	<0.01
D00006162	0.37	109	11.8	24	75.8	4.06	5.9	0.02
D00006163	0.20	111	11.9	21	67.2	4.32	6.7	<0.01
D00006164	0.48	101	16.3	40	93.8	5.10	7.8	0.02
D00006165	2.24	61.4	22.9	54	142	5.12	7.7	<0.01
D00006166	1.80	53.3	30.4	107	74.0	6.02	8.2	0.02
D00006167	0.31	108	14.1	29	76.8	4.71	6.9	0.01
D00006168	0.31	89.1	17.0	29	58.8	5.48	9.0	0.01
D00006169	0.43	94.7	17.3	41	74.4	5.63	8.6	0.03
D00006170	2.47	89.3	14.2	36	132	4.65	6.2	0.05
D00006171	0.35	69.2	7.8	21	18.0	2.78	6.4	0.03
D00006172	0.16	143	15.0	35	24.9	4.00	7.4	0.02
D00006173	0.21	95.3	5.5	11	15.0	2.00	4.3	<0.01
D00006174	0.10	81.1	15.5	34	24.7	3.94	7.2	<0.01
D00006175	0.36	40.4	10.4	25	23.1	3.53	5.6	0.01
D00006176	0.53	50.6	12.0	34	51.0	3.52	5.6	0.02
D00006177	0.15	14.8	12.9	449	19.9	3.95	7.1	<0.01
D00006178	0.10	25.1	5.5	16	22.4	2.48	4.5	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006111	0.14	17.7	3.0	13	10.0	1.21	3.5	0.02
*Rep D00006155	1.41	211	17.6	14	164	2.93	3.4	0.10
*Rep D00006164	0.47	98.7	16.7	40	94.0	5.01	7.9	0.01
*Std OREAS920	0.06	69.6	15.0	46	109	3.38	6.4	<0.01
*Std OREAS920	0.05	70.7	14.1	44	109	3.55	6.8	<0.01
*Std OREAS151B	0.56	15.6	11.0	27	1690	3.38	7.3	0.02
*Std OREAS902	0.02	31.0	972	23	2950	3.01	1.6	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006103	0.10	16.0	0.13	149	1.61	0.01	11.7	440
D00006104	0.16	23.1	0.11	177	1.58	0.01	14.9	530
D00006105	0.22	23.0	0.12	223	2.01	0.01	9.8	330
D00006106	0.21	19.7	0.09	114	1.45	0.01	6.2	320
D00006107	0.20	27.9	0.10	143	1.08	0.01	5.5	420
D00006108	0.09	21.3	0.05	110	0.80	0.01	4.0	410
D00006109	0.10	15.5	0.13	91	0.95	0.01	6.2	330
D00006110	0.12	29.9	0.45	480	0.94	0.02	12.2	730
D00006111	0.06	10.8	0.32	100	0.62	0.02	8.2	410
D00006112	0.12	45.0	0.73	212	1.29	0.01	17.7	1200
D00006113	0.10	15.2	1.19	431	1.09	0.01	31.9	1280
D00006114	0.10	15.9	0.60	318	1.22	0.01	15.5	430
D00006115	0.14	18.7	0.61	217	1.03	0.01	12.7	840
D00006116	0.23	20.1	0.86	409	1.29	0.01	22.5	1160
D00006117	0.15	22.3	0.71	218	0.79	0.01	14.8	1110
D00006118	0.31	42.6	1.03	747	1.66	0.01	37.5	1230
D00006119	0.13	26.4	0.66	292	0.84	0.01	21.6	920
D00006120	0.11	30.0	0.59	452	0.95	0.01	19.6	1040
D00006121	0.13	35.3	0.79	213	0.70	0.01	29.7	980
D00006122	0.13	21.3	0.92	457	1.28	0.01	32.8	750
D00006123	0.12	33.7	1.27	686	1.42	0.01	49.6	1340
D00006124	0.09	34.6	0.61	325	1.11	0.01	23.7	980
D00006125	0.06	31.2	0.13	156	0.78	0.01	6.1	260
D00006126	0.06	62.8	1.51	424	0.48	0.01	47.7	690
D00006127	0.09	30.4	0.75	290	1.52	0.01	17.6	1090
D00006128	0.05	16.6	0.41	180	1.29	0.01	13.7	370
D00006129	0.08	15.1	0.68	286	1.35	0.01	16.6	740
D00006130	0.05	9.3	0.28	183	0.74	0.02	10.1	580
D00006131	0.07	13.5	0.52	214	1.27	0.01	14.7	540
D00006132	0.02	17.8	0.04	45	0.16	0.01	6.3	590
D00006133	0.02	2.9	0.03	11	0.05	0.04	0.9	410
D00006134	0.13	21.4	0.49	136	0.98	0.01	14.2	650
D00006135	0.03	18.4	0.08	54	0.49	0.03	6.8	2480
D00006136	0.14	29.5	0.79	687	1.61	0.01	53.4	1130
D00006137	0.06	373	0.26	186	2.34	0.01	13.3	3990
D00006138	0.04	6.8	0.06	46	0.62	0.03	2.4	1940
D00006139	0.16	36.9	0.61	263	0.91	0.01	19.0	1090
D00006140	<0.01	0.6	<0.01	<2	<0.05	0.01	<0.5	<50
D00006141	0.22	29.1	0.78	465	1.05	0.01	19.1	1340
D00006142	0.03	26.4	0.22	293	0.66	0.03	6.4	300

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006143	0.07	18.7	0.57	266	1.09	0.01	17.8	560
D00006144	0.06	28.2	0.67	292	0.80	0.01	24.4	610
D00006145	0.05	19.2	0.57	296	1.51	0.01	26.0	490
D00006146	0.06	33.7	0.92	1150	1.31	0.01	36.0	620
D00006147	0.07	24.1	0.83	195	1.31	0.01	17.8	970
D00006148	0.08	31.3	0.81	566	1.10	0.01	24.5	900
D00006149	0.21	27.2	0.37	522	2.20	0.01	8.9	740
D00006150	0.13	71.0	0.19	1600	5.29	0.01	12.7	610
D00006151	0.45	43.6	0.58	1310	4.92	0.01	11.9	1060
D00006152	1.42	85.0	1.43	2260	3.32	0.02	19.1	2970
D00006153	0.27	35.3	0.40	236	2.81	0.01	11.4	450
D00006154	0.38	74.9	0.52	1050	4.06	0.01	17.6	730
D00006155	0.15	109	0.26	1450	6.00	0.01	13.0	1110
D00006156	1.01	43.3	1.43	1540	2.85	0.01	18.8	1460
D00006157	0.07	22.4	0.38	580	2.38	0.01	16.8	780
D00006158	0.24	32.9	0.48	516	1.74	<0.01	17.7	880
D00006159	0.52	42.7	0.86	1590	3.40	0.01	14.3	750
D00006160	1.07	52.4	1.30	857	4.17	0.02	12.7	740
D00006161	1.03	51.0	1.21	829	3.78	0.01	12.1	700
D00006162	0.69	49.4	0.85	952	2.68	0.01	12.8	710
D00006163	0.73	59.7	0.91	809	5.34	0.01	10.8	740
D00006164	0.90	54.1	1.32	922	3.38	0.01	18.8	590
D00006165	1.12	30.9	1.86	1580	3.14	0.01	29.7	670
D00006166	1.12	27.5	2.46	1420	2.64	0.02	57.6	660
D00006167	0.76	69.8	1.12	838	2.34	0.01	14.4	1070
D00006168	0.94	54.5	1.24	857	2.79	0.01	13.7	1460
D00006169	0.77	52.6	1.35	913	3.17	0.01	17.8	730
D00006170	0.41	58.9	1.10	1190	4.32	0.02	14.6	730
D00006171	0.46	36.5	0.75	252	3.14	0.01	8.6	740
D00006172	0.66	84.3	1.18	450	2.07	0.01	16.7	890
D00006173	0.22	33.0	0.36	232	2.13	<0.01	8.4	540
D00006174	0.96	39.7	1.22	496	1.40	0.01	20.3	700
D00006175	0.19	19.8	0.61	357	2.55	0.01	19.5	1000
D00006176	0.23	22.5	0.91	487	3.55	0.01	32.6	1390
D00006177	0.10	7.1	1.01	383	2.42	0.01	77.5	700
D00006178	0.08	13.1	0.30	121	1.26	0.03	9.1	1010

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006111	0.06	10.2	0.32	103	0.61	0.02	8.6	410
*Rep D00006155	0.15	113	0.25	1460	6.26	0.01	13.1	1090
*Rep D00006164	0.88	54.0	1.25	902	3.41	0.01	18.7	570
*Std OREAS920	0.40	35.1	1.05	508	0.40	0.03	39.2	720
*Std OREAS920	0.43	34.9	1.07	513	0.38	0.03	36.9	680
*Std OREAS151B	0.37	7.0	1.36	259	55.7	0.16	14.2	490
*Std OREAS902	0.26	14.4	2.16	462	12.0	0.01	165	650
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006103	29.8	10.9	0.83	0.7	0.3	6.9	0.3	0.04
D00006104	27.6	15.9	0.56	1.2	<0.3	6.8	5.9	0.04
D00006105	17.6	22.8	0.29	1.2	<0.3	5.1	7.1	0.04
D00006106	5.0	21.1	0.28	1.0	<0.3	6.8	2.2	0.04
D00006107	6.2	23.6	0.27	0.8	<0.3	3.7	1.9	0.04
D00006108	12.1	10.2	0.25	0.8	0.4	4.2	3.7	0.03
D00006109	13.3	13.9	0.22	1.1	<0.3	7.1	3.1	0.03
D00006110	19.1	17.1	0.15	2.5	<0.3	19.6	2.0	0.04
D00006111	18.0	9.1	0.11	1.4	<0.3	17.9	1.4	0.03
D00006112	23.0	20.5	0.13	2.9	0.3	18.6	4.0	0.06
D00006113	30.2	13.4	0.19	3.4	0.3	11.4	1.8	0.10
D00006114	23.4	16.0	0.19	2.8	0.4	4.9	8.4	0.09
D00006115	19.9	18.2	0.13	2.6	0.4	8.2	5.2	0.09
D00006116	26.1	22.3	0.23	3.6	0.3	11.1	9.5	0.12
D00006117	24.8	18.5	0.14	2.5	0.3	10.7	3.7	0.08
D00006118	34.5	33.4	0.34	6.2	0.5	18.2	14.3	0.14
D00006119	17.7	16.5	0.29	3.2	0.4	15.1	7.4	0.10
D00006120	35.0	15.5	0.27	2.9	0.3	13.4	4.1	0.06
D00006121	48.7	18.2	0.36	4.3	0.3	14.5	7.9	0.08
D00006122	29.9	18.1	0.33	3.9	0.4	13.1	9.7	0.10
D00006123	57.1	18.9	0.44	5.5	<0.3	26.0	9.4	0.07
D00006124	25.5	12.2	0.47	3.9	0.3	12.5	8.7	0.08
D00006125	15.1	9.6	0.14	1.1	0.5	13.5	1.1	0.04
D00006126	9.7	5.3	0.08	3.6	<0.3	21.9	18.9	<0.01
D00006127	41.9	10.6	0.16	4.4	0.4	19.9	6.0	0.04
D00006128	9.8	9.0	0.24	2.5	0.5	5.3	2.2	0.08
D00006129	33.0	16.1	0.16	2.5	0.4	6.8	3.6	0.08
D00006130	14.8	7.7	0.12	0.6	<0.3	7.7	0.1	0.03
D00006131	22.7	13.3	0.20	1.3	0.4	12.4	0.3	0.05
D00006132	3.2	2.4	0.25	1.0	<0.3	71.3	1.9	0.01
D00006133	2.5	1.0	<0.05	0.4	<0.3	7.9	<0.1	0.01
D00006134	20.7	19.6	0.25	1.9	0.4	7.7	0.9	0.07
D00006135	11.4	4.3	0.14	0.4	<0.3	14.4	<0.1	<0.01
D00006136	18.7	12.7	1.03	5.7	0.3	20.1	8.5	0.05
D00006137	22.3	8.5	0.73	2.9	<0.3	45.8	6.7	0.03
D00006138	10.6	4.9	<0.05	0.3	<0.3	4.5	<0.1	<0.01
D00006139	17.3	16.3	0.20	3.4	<0.3	9.9	9.3	0.07
D00006140	0.7	<0.2	<0.05	0.1	<0.3	0.5	0.4	<0.01
D00006141	19.8	23.4	0.12	3.3	<0.3	13.7	8.1	0.09
D00006142	7.6	3.8	0.06	1.9	<0.3	4.7	0.6	0.03

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006143	25.0	10.5	0.19	2.8	0.4	18.2	4.3	0.06
D00006144	32.9	8.2	0.20	2.6	<0.3	12.5	6.3	0.03
D00006145	33.5	7.7	0.27	2.4	<0.3	16.5	3.8	0.02
D00006146	50.1	8.0	0.34	5.2	<0.3	14.7	5.8	0.04
D00006147	31.2	9.4	0.19	3.1	<0.3	14.7	7.3	0.03
D00006148	32.3	10.6	0.31	4.1	<0.3	26.2	6.6	0.04
D00006149	52.5	30.3	0.34	1.8	0.4	8.6	3.6	0.07
D00006150	107	14.5	0.29	1.7	<0.3	7.8	11.7	0.02
D00006151	17.8	53.5	0.19	3.5	0.5	29.3	16.2	0.14
D00006152	15.9	135	0.08	10.5	0.8	42.6	13.1	0.41
D00006153	8.0	29.7	0.55	1.4	0.5	19.8	5.3	0.06
D00006154	65.6	54.1	0.41	2.8	0.5	18.3	6.6	0.09
D00006155	330	14.8	0.50	1.7	0.3	36.4	22.5	0.04
D00006156	47.1	131	0.16	7.7	1.5	34.6	8.0	0.41
D00006157	80.2	10.6	0.69	1.3	0.4	8.8	1.5	0.04
D00006158	22.5	32.5	0.49	2.5	0.3	24.6	8.4	0.11
D00006159	1150	71.8	0.22	5.0	0.7	47.0	10.3	0.21
D00006160	43.0	112	0.08	6.8	2.4	77.0	20.4	0.32
D00006161	42.0	112	0.08	6.3	2.2	69.7	19.6	0.31
D00006162	36.6	73.9	0.05	4.6	0.8	17.2	16.2	0.20
D00006163	12.3	78.8	0.05	4.1	1.0	23.4	22.0	0.20
D00006164	52.7	87.4	0.14	6.7	1.1	37.2	18.8	0.25
D00006165	250	113	0.06	7.5	0.9	59.9	13.4	0.34
D00006166	143	150	0.12	9.1	0.6	62.2	10.7	0.37
D00006167	39.0	80.5	0.08	6.6	1.0	33.9	20.3	0.23
D00006168	30.7	84.2	0.10	7.9	0.9	27.1	16.8	0.28
D00006169	51.3	91.6	0.10	7.6	1.2	29.2	14.5	0.27
D00006170	139	67.8	0.10	4.0	0.7	40.4	8.4	0.13
D00006171	52.0	60.7	0.15	3.4	0.6	37.1	9.8	0.14
D00006172	39.0	69.2	0.24	4.8	0.6	12.1	13.7	0.21
D00006173	29.2	25.4	0.23	1.7	0.5	8.5	15.2	0.07
D00006174	17.8	95.6	0.25	3.9	0.5	9.0	14.1	0.24
D00006175	22.7	24.1	0.21	2.7	0.5	7.3	3.0	0.10
D00006176	32.8	26.0	0.19	3.4	0.4	13.6	6.4	0.09
D00006177	19.9	13.3	0.15	2.6	0.9	4.4	2.2	0.16
D00006178	11.4	10.3	0.08	1.7	<0.3	11.4	2.3	0.10

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006111	17.1	9.0	0.11	1.4	<0.3	17.7	1.5	0.03
*Rep D00006155	322	14.6	0.50	1.7	0.3	36.2	22.2	0.04
*Rep D00006164	51.9	87.4	0.13	6.8	1.1	36.7	19.5	0.25
*Std OREAS920	21.3	23.0	0.60	3.0	1.0	16.2	15.6	0.13
*Std OREAS920	19.3	23.6	0.67	2.7	1.0	15.9	15.5	0.12
*Std OREAS151B	38.0	19.1	0.51	9.4	1.0	35.6	2.7	0.07
*Std OREAS902	10.0	8.8	0.94	2.7	<0.3	20.0	5.0	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006103	0.13	1.12	33	0.3	3.86	113
D00006104	0.14	0.80	25	0.3	4.42	104
D00006105	0.19	0.82	13	0.1	3.86	61
D00006106	0.15	0.56	18	0.3	2.56	24
D00006107	0.17	0.47	18	0.2	2.54	22
D00006108	0.11	0.63	17	0.2	2.55	21
D00006109	0.08	0.70	21	0.1	2.90	44
D00006110	0.14	1.02	39	0.1	9.92	49
D00006111	0.08	0.42	22	<0.1	2.88	57
D00006112	0.20	2.84	40	<0.1	20.2	285
D00006113	0.14	0.75	58	0.2	6.38	159
D00006114	0.14	0.74	44	0.2	5.07	100
D00006115	0.15	0.68	40	0.2	6.37	79
D00006116	0.19	0.89	48	0.2	8.44	150
D00006117	0.17	1.23	40	0.2	9.51	107
D00006118	0.28	1.56	64	0.3	19.2	189
D00006119	0.16	1.08	38	0.2	9.79	97
D00006120	0.17	1.32	38	0.2	10.8	138
D00006121	0.20	1.75	44	0.2	16.5	215
D00006122	0.19	0.93	49	0.2	8.12	155
D00006123	0.16	1.01	68	0.3	15.7	158
D00006124	0.13	1.13	44	0.3	12.3	78
D00006125	0.15	0.58	21	0.2	5.18	25
D00006126	0.03	0.73	25	<0.1	13.7	85
D00006127	0.14	1.36	58	0.1	14.7	234
D00006128	0.08	0.49	66	0.2	3.25	40
D00006129	0.13	0.49	53	0.2	4.49	80
D00006130	0.08	0.44	27	<0.1	3.10	54
D00006131	0.12	0.60	41	0.3	3.87	101
D00006132	0.03	4.66	9	<0.1	6.50	11
D00006133	0.05	0.24	2	<0.1	1.11	3
D00006134	0.18	1.02	36	0.2	7.29	65
D00006135	0.10	3.01	13	<0.1	6.83	15
D00006136	0.16	0.85	51	0.2	14.1	121
D00006137	0.12	130	30	0.1	132	126
D00006138	0.07	0.89	7	<0.1	2.54	11
D00006139	0.13	1.29	34	<0.1	17.2	108
D00006140	<0.02	0.09	<1	<0.1	0.69	2
D00006141	0.16	1.40	43	2.0	11.3	208
D00006142	0.03	0.41	31	0.1	6.52	34

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006143	0.08	0.67	39	0.2	5.82	84
D00006144	0.08	1.06	31	0.1	8.23	153
D00006145	0.08	0.68	39	0.4	6.09	150
D00006146	0.08	1.14	56	0.2	13.0	185
D00006147	0.08	0.91	37	0.1	7.83	202
D00006148	0.10	0.92	41	0.2	11.6	170
D00006149	0.39	3.27	33	0.2	9.01	94
D00006150	0.31	8.68	18	0.4	31.1	280
D00006151	0.46	4.68	34	0.1	12.1	211
D00006152	0.88	4.96	109	0.1	38.0	605
D00006153	0.25	3.18	24	0.2	5.23	65
D00006154	0.55	7.49	42	0.2	25.5	109
D00006155	0.26	13.9	20	0.3	30.5	556
D00006156	1.01	4.00	98	0.1	19.5	749
D00006157	0.14	2.66	38	0.6	8.20	411
D00006158	0.33	1.36	37	0.2	11.3	118
D00006159	0.61	2.83	70	0.1	19.6	528
D00006160	0.88	5.40	64	0.1	12.5	188
D00006161	0.85	5.38	60	<0.1	12.3	178
D00006162	0.47	3.86	34	<0.1	13.3	117
D00006163	0.48	4.98	36	<0.1	9.26	118
D00006164	0.60	6.09	66	0.1	18.4	203
D00006165	0.87	3.83	68	<0.1	14.8	536
D00006166	1.29	4.02	78	0.1	16.4	440
D00006167	0.63	3.12	57	<0.1	20.5	138
D00006168	0.52	4.30	81	<0.1	18.3	167
D00006169	0.69	4.56	74	0.1	17.0	190
D00006170	0.53	4.91	46	0.1	15.8	464
D00006171	0.40	2.81	46	0.2	12.7	132
D00006172	0.52	2.55	68	0.2	14.8	152
D00006173	0.20	2.04	17	0.1	15.7	93
D00006174	0.66	1.53	78	0.2	17.0	90
D00006175	0.22	1.84	63	0.2	8.28	144
D00006176	0.24	2.36	61	0.2	10.5	257
D00006177	0.13	0.84	73	0.2	3.17	178
D00006178	0.12	1.22	70	<0.1	5.24	83

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Final : VC173361 Order: PO# BMC17-01017

Report File No.: 0000025672

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006111	0.08	0.41	21	0.1	2.79	57
*Rep D00006155	0.25	14.2	19	0.3	31.2	559
*Rep D00006164	0.59	5.94	65	0.1	18.4	201
*Std OREAS920	0.16	2.18	25	0.5	18.0	107
*Std OREAS920	0.15	2.15	22	0.5	17.2	103
*Std OREAS151B	0.13	0.62	135	0.5	10.6	230
*Std OREAS902	0.23	2.26	7	2.1	7.32	5
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC173362
[Report File No.: 0000025559]

Date: October 29, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01017
Project No.: KZK
Samples: 76
Received: Sep 25, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006179	0.850	6	0.11	1.66	15	90	0.32	0.22
D00006180	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00006181	0.805	<5	0.14	1.96	20	153	0.35	0.33
D00006182	0.590	<5	0.38	1.84	33	144	0.56	0.22
D00006183	0.785	<5	0.01	2.23	7	114	0.26	0.25
D00006184	0.805	<5	0.01	3.00	6	221	0.12	0.39
D00006185	0.535	<5	0.07	0.92	4	73	0.37	0.04
D00006186	0.295	5	0.29	1.07	4	183	0.06	0.69
D00006187	0.655	<5	0.05	0.69	7	68	0.14	0.05
D00006188	0.810	<5	0.05	1.36	5	116	0.13	0.33
D00006189	0.585	<5	0.13	1.82	4	222	0.13	0.60
D00006190	0.450	<5	0.08	1.92	4	373	0.12	0.84
D00006191	0.875	<5	0.16	1.46	75	159	0.20	0.44
D00006192	0.700	<5	0.06	1.57	48	182	0.28	0.35
D00006193	0.780	<5	0.10	2.10	10	361	0.13	0.60
D00006194	0.680	<5	0.05	1.91	5	291	0.13	0.41
D00006195	0.610	<5	0.03	1.19	7	86	0.18	0.18
D00006196	0.620	<5	0.02	1.32	6	113	0.19	0.14
D00006197	0.495	<5	0.04	0.97	6	75	0.20	0.09
D00006198	0.665	<5	0.04	1.12	4	155	0.19	0.39
D00006199	0.510	<5	0.16	1.08	14	86	0.25	0.12
D00006200	0.480	<5	0.08	2.94	5	232	0.29	0.42
D00006231	0.315	<5	0.34	0.64	3	42	0.28	0.03
D00006232	0.570	<5	0.09	1.89	8	83	0.30	0.36
D00006233	0.165	<5	0.12	0.65	1	61	0.05	0.58
D00006234	0.230	<5	0.05	0.53	2	115	0.23	0.52
D00006235	0.385	<5	0.16	1.33	9	164	0.22	0.53
D00006236	0.505	<5	0.24	1.73	9	116	0.20	0.96
D00006237	0.320	<5	0.24	0.70	3	76	0.07	0.83
D00006238	0.355	<5	0.84	1.65	5	191	0.23	1.48
D00006239	0.435	<5	0.30	1.20	6	134	0.20	0.79
D00006240	0.110	<5	<0.01	0.01	1	<5	<0.02	<0.01
D00006241	0.335	<5	0.13	1.08	5	30	0.12	0.08
D00006242	0.460	<5	0.11	1.62	9	103	0.21	0.18
D00006243	0.470	11	0.06	1.08	9	54	0.21	0.35
D00006244	0.425	<5	0.27	1.33	11	103	0.23	0.61
D00006245	0.510	<5	0.11	1.40	13	65	0.53	0.09
D00006246	0.445	<5	0.08	1.14	15	54	0.46	0.07
D00006247	0.630	<5	0.19	1.58	13	221	0.23	0.51
D00006248	0.335	<5	0.49	2.01	32	119	0.18	0.70

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006249	0.645	<5	0.12	1.70	14	127	0.20	0.47
D00006250	0.365	6	0.12	1.24	13	104	0.11	0.72
D00006251	0.745	<5	0.08	0.93	7	131	0.32	0.17
D00006252	0.445	<5	0.05	0.43	3	53	0.19	0.03
D00006253	0.760	<5	0.04	0.72	6	63	0.27	0.12
D00006254	0.695	<5	0.15	0.33	6	55	0.40	0.10
D00006255	0.610	<5	0.25	0.75	7	119	0.28	0.11
D00006256	0.830	<5	0.06	1.10	8	73	0.29	0.20
D00006257	0.565	<5	0.10	0.62	7	116	0.22	0.25
D00006258	0.940	<5	0.06	1.16	8	91	0.20	0.27
D00006259	0.525	<5	0.53	1.33	8	92	0.28	0.08
D00006260	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00006261	0.800	<5	0.02	0.21	9	42	0.06	0.03
D00006262	0.500	<5	0.03	0.31	2	37	0.09	0.05
D00006263	0.330	<5	0.37	0.46	10	105	0.13	0.10
D00006264	0.335	<5	0.24	0.14	1	25	0.04	0.03
D00006265	0.525	<5	0.37	0.54	6	93	0.27	0.11
D00006266	0.700	<5	0.10	1.47	9	98	0.20	0.34
D00006267	0.825	<5	0.09	1.38	8	89	0.27	0.51
D00006268	0.645	<5	0.01	1.63	5	120	0.22	0.27
D00006269	1.100	<5	0.10	1.38	8	88	0.22	0.39
D00006270	0.815	<5	0.18	1.84	8	69	0.26	0.20
D00006271	0.755	<5	0.13	1.87	8	79	0.31	0.25
D00006272	0.375	<5	0.19	0.81	<1	55	0.06	0.29
D00006273	0.640	<5	0.10	0.90	4	79	0.11	0.24
D00006274	0.385	<5	0.10	1.43	25	160	0.22	0.48
D00006275	0.625	<5	0.21	2.13	24	143	0.31	0.68
D00006276	0.465	<5	0.41	0.90	19	89	0.45	0.66
D00006277	0.580	<5	0.09	1.94	47	91	0.25	0.50
D00006278	0.570	<5	0.12	1.62	78	73	0.66	0.27
D00006279	0.675	<5	0.04	0.80	9	121	0.23	0.28
D00006280	0.460	<5	0.09	1.03	18	91	0.26	0.65
D00006281	0.525	<5	0.07	0.92	16	83	0.25	0.63
D00006282	0.470	<5	0.05	1.04	8	101	0.17	0.12
D00006283	0.550	<5	0.05	1.22	8	99	0.28	0.21
D00006284	0.660	<5	0.05	1.37	14	95	0.21	0.16
*Rep D00006184		<5						
*Rep D00006251		<5						
*Rep D00006273		<5						
*Std OREAS151B		64						

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Final : VC173362 Order: PO# BMC17-01017

Report File No.: 0000025559

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Std OXK119	3720						
*Std AMIS0474	171						
*Blk BLANK	<5						
*Blk BLANK	<5						
*Rep D00006197		0.04	1.01	5	75	0.20	0.08
*Rep D00006259		0.50	1.33	7	94	0.30	0.07
*Rep D00006265		0.34	0.53	6	93	0.22	0.11
*Std OREAS920		0.08	2.38	5	68	0.61	0.31
*Std OREAS151B		0.53	2.40	34	63	0.38	1.31
*Std OREAS902		0.28	0.47	580	13	8.14	3.90
*Std OREAS920		0.08	2.27	5	77	0.58	0.34
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006179	0.31	70.3	9.3	27	18.8	3.36	7.1	<0.01
D00006180	<0.01	1.01	<0.1	1	0.7	0.02	0.1	<0.01
D00006181	0.32	75.4	13.5	37	25.4	3.87	7.7	0.02
D00006182	0.11	54.1	8.0	32	19.0	3.61	6.9	0.03
D00006183	0.17	67.1	14.6	30	19.7	3.95	7.7	<0.01
D00006184	0.32	34.9	22.6	44	22.4	4.92	8.8	<0.01
D00006185	0.07	36.4	1.8	9	7.0	1.04	4.8	0.02
D00006186	0.81	41.5	2.8	7	11.6	0.66	2.9	0.04
D00006187	0.06	31.9	3.5	12	7.7	1.77	5.4	0.01
D00006188	0.07	64.6	7.6	20	11.7	2.72	6.0	0.01
D00006189	2.00	40.4	22.3	33	25.3	3.78	6.8	0.02
D00006190	0.23	40.8	12.1	30	16.2	3.30	7.1	0.05
D00006191	0.23	94.1	15.2	25	21.0	3.33	5.5	0.01
D00006192	0.34	80.3	15.4	28	20.9	3.31	4.9	0.02
D00006193	0.17	36.9	13.5	39	18.8	3.86	7.4	0.01
D00006194	0.11	35.2	13.7	34	15.9	3.89	7.0	0.03
D00006195	0.08	52.9	7.7	23	12.0	2.27	4.8	0.02
D00006196	0.18	66.2	6.3	19	10.2	2.47	5.0	0.01
D00006197	0.26	28.3	4.0	13	7.0	1.77	4.0	<0.01
D00006198	0.09	153	5.2	14	11.0	2.12	4.6	0.01
D00006199	0.15	32.4	7.2	23	10.5	2.48	5.5	0.03
D00006200	0.11	26.5	17.8	48	15.9	5.30	10.2	0.04
D00006231	0.49	14.8	2.2	9	8.7	0.79	4.1	0.03
D00006232	0.58	53.9	11.7	40	39.3	3.30	6.4	<0.01
D00006233	0.59	13.9	1.5	5	10.4	0.47	2.4	0.03
D00006234	0.49	15.3	3.8	9	5.8	0.81	3.2	0.01
D00006235	0.44	74.0	17.1	23	14.0	2.51	5.5	0.02
D00006236	0.20	38.6	14.4	41	35.2	3.37	6.6	0.02
D00006237	0.23	26.3	3.7	9	33.2	0.96	2.9	0.03
D00006238	0.38	55.9	11.8	34	36.6	2.94	7.8	0.07
D00006239	0.74	21.7	6.2	26	17.8	1.78	6.0	0.03
D00006240	<0.01	1.13	<0.1	<1	0.6	0.02	<0.1	<0.01
D00006241	0.11	22.3	5.7	14	11.6	2.20	5.3	0.01
D00006242	0.35	54.7	13.0	26	15.3	2.67	4.4	<0.01
D00006243	1.31	50.4	11.3	22	20.3	2.51	4.2	<0.01
D00006244	1.32	70.2	10.8	23	28.5	2.64	4.4	0.03
D00006245	0.28	38.4	7.7	22	11.0	3.08	8.4	<0.01
D00006246	0.09	54.1	5.5	15	12.2	2.41	9.6	<0.01
D00006247	0.26	65.5	12.4	30	30.4	3.33	5.4	0.02
D00006248	0.54	45.3	20.6	48	57.2	4.20	6.5	0.03

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006249	0.30	60.3	15.9	34	31.3	3.30	6.0	<0.01
D00006250	0.86	27.9	10.4	18	34.9	2.78	4.9	0.02
D00006251	0.15	59.7	5.5	15	12.4	1.44	2.7	<0.01
D00006252	0.09	24.7	2.1	5	6.8	0.92	3.1	0.03
D00006253	0.22	34.2	6.9	12	11.0	2.03	5.0	0.02
D00006254	0.18	29.1	3.2	13	9.8	1.22	3.5	0.03
D00006255	0.20	52.7	5.7	17	10.0	1.80	3.5	0.04
D00006256	0.11	50.3	6.7	19	9.8	2.46	5.0	0.02
D00006257	0.39	74.6	4.8	11	7.5	1.74	3.1	0.06
D00006258	0.12	77.0	5.4	18	9.5	2.17	4.4	<0.01
D00006259	0.27	63.9	11.2	19	6.8	2.93	5.9	0.03
D00006260	<0.01	1.08	<0.1	<1	0.7	0.02	<0.1	<0.01
D00006261	0.05	57.4	1.2	2	3.1	0.49	2.1	<0.01
D00006262	0.03	34.6	0.7	3	1.6	0.27	2.9	0.01
D00006263	0.31	29.9	3.0	7	7.3	0.80	3.1	0.04
D00006264	0.10	6.87	0.9	4	2.3	0.36	1.2	0.01
D00006265	0.18	37.7	3.4	10	8.3	1.20	2.8	0.02
D00006266	0.08	37.3	8.0	44	10.2	2.52	5.3	0.01
D00006267	0.63	61.2	10.1	34	21.6	2.93	4.9	<0.01
D00006268	0.13	19.7	7.3	37	9.5	3.22	7.4	<0.01
D00006269	0.34	38.5	8.1	26	19.1	2.74	4.8	<0.01
D00006270	0.14	49.1	9.1	37	25.1	3.30	6.6	<0.01
D00006271	0.22	50.2	10.7	35	29.5	3.79	7.1	<0.01
D00006272	0.07	10.0	3.5	10	2.4	1.28	4.7	<0.01
D00006273	0.09	24.0	4.5	14	5.2	1.76	4.1	<0.01
D00006274	0.42	60.2	9.9	28	8.6	3.09	5.5	0.02
D00006275	0.46	65.8	16.0	35	17.3	4.44	7.5	0.02
D00006276	0.50	53.6	10.0	10	19.7	2.80	3.2	0.03
D00006277	0.23	71.5	16.1	19	9.9	5.26	7.0	0.03
D00006278	0.34	60.5	12.5	17	17.5	4.68	6.8	0.02
D00006279	0.16	127	5.2	7	9.9	2.08	3.8	0.02
D00006280	0.22	20.3	28.0	25	37.7	4.99	3.2	0.03
D00006281	0.23	19.1	24.9	22	34.2	4.48	2.9	0.04
D00006282	0.08	53.2	5.3	22	12.0	2.19	4.0	0.03
D00006283	0.10	72.2	6.5	22	12.2	2.40	4.2	0.03
D00006284	0.16	98.3	6.4	25	14.6	2.54	4.8	0.03

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006197	0.26	26.3	3.9	13	6.5	1.84	4.1	<0.01
*Rep D00006259	0.25	64.6	11.0	19	7.1	3.03	6.0	0.03
*Rep D00006265	0.17	40.3	3.3	10	7.7	1.19	2.7	0.01
*Std OREAS920	0.05	66.7	14.5	42	112	3.45	6.9	<0.01
*Std OREAS151B	0.54	15.1	11.5	26	1770	2.97	7.2	0.02
*Std OREAS902	0.02	28.3	944	19	2830	2.81	1.5	0.06
*Std OREAS920	0.05	73.8	14.3	47	110	3.68	6.8	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006179	0.22	33.2	0.82	417	2.19	0.01	15.8	1230
D00006180	<0.01	0.5	<0.01	<2	<0.05	0.01	<0.5	<50
D00006181	0.32	39.2	1.10	528	2.72	0.01	21.9	1630
D00006182	0.18	37.0	0.80	227	2.68	0.01	16.2	950
D00006183	0.69	32.3	1.09	500	1.28	0.01	16.0	1090
D00006184	1.20	18.0	1.43	834	1.11	0.01	16.5	1560
D00006185	0.07	18.1	0.14	63	1.22	0.01	3.8	470
D00006186	0.03	36.6	0.08	444	0.65	0.03	5.3	2200
D00006187	0.21	14.5	0.18	104	1.33	0.01	6.0	270
D00006188	0.47	31.7	0.57	346	1.15	0.01	12.8	920
D00006189	0.67	22.4	0.76	1260	1.31	0.01	20.0	1730
D00006190	0.71	20.9	0.99	671	0.93	0.01	15.6	1190
D00006191	0.60	39.3	0.64	623	1.26	0.01	21.4	1410
D00006192	0.52	31.8	0.69	565	1.39	0.01	26.0	1370
D00006193	0.92	17.7	1.05	448	0.79	0.01	17.4	1530
D00006194	0.68	17.7	0.87	602	1.36	0.01	16.3	800
D00006195	0.20	26.7	0.44	316	1.08	0.01	17.7	680
D00006196	0.14	34.2	0.38	193	1.10	0.01	13.0	730
D00006197	0.07	14.3	0.18	291	1.14	0.01	8.4	490
D00006198	0.25	80.3	0.26	279	1.33	<0.01	9.9	1140
D00006199	0.28	15.6	0.41	440	1.48	0.01	11.8	600
D00006200	1.26	14.5	1.66	572	1.06	0.01	20.8	1160
D00006231	0.03	7.9	0.15	51	0.76	0.02	5.0	610
D00006232	0.21	27.2	1.09	368	1.19	0.01	24.9	1320
D00006233	0.02	8.3	0.07	334	0.67	0.03	3.0	1050
D00006234	0.09	7.5	0.16	422	1.01	0.01	3.2	540
D00006235	0.16	36.3	0.64	1810	1.43	0.01	14.8	1190
D00006236	0.05	20.3	0.90	346	1.10	0.01	32.2	1110
D00006237	0.04	22.8	0.21	177	0.56	0.03	13.0	720
D00006238	0.15	77.3	0.62	643	1.15	0.02	19.9	1490
D00006239	0.07	14.4	0.42	231	0.68	0.03	10.1	860
D00006240	<0.01	0.6	<0.01	<2	<0.05	<0.01	<0.5	<50
D00006241	0.08	10.4	0.36	189	0.81	0.02	10.1	540
D00006242	0.18	22.7	0.63	453	1.14	0.01	23.4	810
D00006243	0.17	19.8	0.60	536	1.45	0.01	19.1	1330
D00006244	0.13	40.3	0.66	279	1.23	0.01	25.0	1300
D00006245	0.26	19.3	0.45	275	1.36	0.01	11.6	540
D00006246	0.20	27.1	0.41	186	1.34	0.01	10.3	360
D00006247	0.16	34.2	0.81	417	1.36	0.01	28.2	1250
D00006248	0.12	30.4	1.17	603	1.55	0.01	47.5	830

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006249	0.14	28.3	0.95	316	1.03	0.01	30.1	1240
D00006250	0.06	16.5	0.61	414	1.00	0.02	18.4	1160
D00006251	0.15	27.1	0.25	237	1.13	0.01	17.0	800
D00006252	0.13	12.5	0.02	86	1.71	0.01	4.4	340
D00006253	0.21	16.0	0.28	186	1.78	0.01	9.8	430
D00006254	0.10	14.4	0.06	215	1.44	0.01	7.3	750
D00006255	0.12	27.2	0.18	194	1.27	0.01	10.9	590
D00006256	0.29	24.3	0.44	231	1.74	0.01	13.0	870
D00006257	0.18	35.5	0.16	356	1.51	0.01	7.8	710
D00006258	0.21	40.2	0.41	159	1.23	0.01	12.7	940
D00006259	0.22	31.7	0.29	967	2.72	0.01	7.3	350
D00006260	<0.01	0.5	<0.01	<2	<0.05	0.01	<0.5	<50
D00006261	0.08	29.9	0.01	123	0.73	0.01	2.2	160
D00006262	0.09	17.5	0.02	71	0.36	0.01	1.2	240
D00006263	0.16	15.3	0.07	544	0.99	0.01	4.1	290
D00006264	0.06	3.5	0.02	116	0.23	0.03	0.9	170
D00006265	0.15	19.4	0.18	146	0.78	0.02	6.4	370
D00006266	0.14	19.5	0.80	221	0.95	<0.01	21.2	680
D00006267	0.28	32.6	0.87	324	0.93	<0.01	21.9	1240
D00006268	0.13	10.3	1.01	336	1.36	0.01	14.8	630
D00006269	0.17	21.2	0.77	253	1.10	0.01	16.5	1060
D00006270	0.13	23.7	0.90	292	1.14	0.01	19.4	750
D00006271	0.17	26.7	0.91	299	1.56	0.01	20.0	860
D00006272	0.05	5.1	0.31	100	0.46	0.02	3.2	690
D00006273	0.16	11.3	0.38	191	1.06	0.02	7.5	490
D00006274	0.33	35.7	0.66	438	1.29	0.02	12.9	850
D00006275	0.74	38.0	1.09	761	1.48	0.02	18.5	1040
D00006276	0.26	32.1	0.31	692	2.13	0.03	12.0	850
D00006277	0.61	30.5	0.83	780	1.82	0.02	8.2	1210
D00006278	0.51	24.8	0.72	401	2.35	0.01	11.1	980
D00006279	0.26	50.2	0.17	657	1.39	0.01	5.6	760
D00006280	0.38	9.6	0.32	2130	1.51	0.02	27.3	1290
D00006281	0.34	8.9	0.30	1840	1.31	0.01	23.5	1110
D00006282	0.17	26.7	0.31	257	1.31	0.01	14.2	510
D00006283	0.20	36.3	0.37	274	1.25	0.01	16.7	690
D00006284	0.15	50.7	0.37	278	1.63	0.02	16.4	670

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006197	0.07	13.3	0.18	299	1.19	0.01	8.5	500
*Rep D00006259	0.22	32.0	0.29	986	2.86	0.01	7.5	340
*Rep D00006265	0.15	20.8	0.17	139	0.79	0.02	6.5	360
*Std OREAS920	0.39	34.4	1.07	505	0.36	0.03	38.8	740
*Std OREAS151B	0.37	6.9	1.39	263	54.6	0.16	14.5	530
*Std OREAS902	0.23	13.8	2.16	439	11.4	0.01	164	650
*Std OREAS920	0.45	35.4	1.09	530	0.39	0.02	39.0	690
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006179	27.1	29.6	0.15	3.4	0.4	9.2	7.9	0.09
D00006180	0.4	<0.2	<0.05	0.1	<0.3	0.5	0.3	<0.01
D00006181	26.8	42.6	0.16	4.8	0.5	13.6	9.8	0.13
D00006182	30.5	18.2	0.18	3.8	0.5	11.9	4.0	0.10
D00006183	20.1	65.3	0.27	4.3	0.5	11.4	10.0	0.20
D00006184	9.4	86.9	0.22	4.4	0.4	13.0	5.4	0.30
D00006185	19.0	12.0	0.18	0.7	0.6	4.1	0.6	0.04
D00006186	5.1	3.4	0.09	0.7	<0.3	41.0	0.8	0.02
D00006187	5.7	32.2	0.46	1.7	0.6	4.8	2.6	0.12
D00006188	6.9	42.7	0.32	3.5	0.4	13.5	8.3	0.14
D00006189	102	60.0	0.36	5.9	0.4	16.8	5.8	0.23
D00006190	6.6	47.7	0.21	3.2	0.4	22.2	2.7	0.15
D00006191	15.8	63.1	0.26	4.7	0.3	19.5	15.0	0.18
D00006192	23.0	54.1	0.35	4.3	<0.3	19.6	9.9	0.16
D00006193	15.1	56.2	0.26	5.0	0.4	20.2	5.9	0.21
D00006194	7.7	49.4	0.28	5.0	0.4	14.3	3.9	0.19
D00006195	8.7	24.0	0.43	2.4	0.4	8.7	5.3	0.10
D00006196	11.9	21.5	0.46	1.8	0.4	7.9	1.8	0.09
D00006197	16.7	9.6	0.36	1.0	0.3	4.5	0.8	0.03
D00006198	14.5	31.6	0.16	1.0	<0.3	12.4	1.6	0.04
D00006199	17.0	50.2	0.48	1.5	0.5	9.8	0.7	0.11
D00006200	23.0	84.2	0.24	4.5	0.4	12.1	3.8	0.31
D00006231	16.8	4.3	0.10	0.4	<0.3	3.6	0.1	0.02
D00006232	32.3	25.2	0.16	3.6	<0.3	15.1	9.0	0.10
D00006233	2.3	1.4	0.06	0.4	<0.3	24.5	0.5	0.02
D00006234	7.7	33.9	0.09	1.2	0.5	24.8	1.3	0.06
D00006235	22.5	21.7	0.20	2.5	<0.3	22.3	2.7	0.06
D00006236	24.1	8.1	0.12	4.0	0.6	40.3	2.7	0.06
D00006237	5.5	5.2	0.08	1.4	<0.3	35.9	1.1	0.04
D00006238	18.5	28.0	0.17	4.6	0.9	62.0	2.8	0.11
D00006239	8.6	13.7	0.08	3.0	0.7	40.7	2.2	0.09
D00006240	0.4	<0.2	<0.05	<0.1	<0.3	0.5	0.3	<0.01
D00006241	13.1	10.5	0.06	2.1	0.3	5.0	1.7	0.03
D00006242	37.1	22.2	0.22	2.9	<0.3	7.9	10.0	0.07
D00006243	29.9	24.7	0.12	2.2	<0.3	12.6	2.9	0.05
D00006244	41.1	18.3	0.16	2.9	<0.3	20.6	4.3	0.05
D00006245	38.3	43.6	0.29	3.1	0.8	7.3	4.7	0.17
D00006246	39.9	31.8	0.22	3.0	1.6	4.8	10.1	0.18
D00006247	25.1	22.7	0.23	4.5	<0.3	22.8	10.3	0.06
D00006248	90.1	16.5	0.32	6.1	<0.3	30.0	6.1	0.04

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006249	39.0	19.3	0.20	5.5	<0.3	19.7	9.6	0.07
D00006250	18.2	13.8	0.16	2.8	<0.3	31.5	2.1	0.03
D00006251	19.5	15.3	0.45	1.5	<0.3	12.3	7.3	0.02
D00006252	7.6	14.4	0.29	0.7	0.4	3.6	2.3	0.02
D00006253	16.4	38.8	0.50	2.7	0.4	8.5	4.2	0.11
D00006254	15.1	13.0	0.55	0.6	0.4	7.1	0.5	0.04
D00006255	24.1	16.0	0.42	1.0	<0.3	9.2	0.8	0.05
D00006256	27.1	40.6	0.29	2.5	0.4	10.3	9.6	0.10
D00006257	20.4	24.5	0.30	1.6	<0.3	14.0	5.7	0.03
D00006258	20.8	23.2	0.35	2.4	0.4	12.2	10.6	0.08
D00006259	50.6	35.9	0.26	2.4	0.5	6.3	13.2	0.10
D00006260	0.4	<0.2	<0.05	<0.1	<0.3	0.6	0.5	<0.01
D00006261	6.1	5.6	0.23	0.4	<0.3	2.3	3.5	<0.01
D00006262	3.7	9.3	0.05	0.4	<0.3	3.1	0.9	0.01
D00006263	33.3	14.2	0.23	1.1	<0.3	6.2	2.5	0.02
D00006264	3.9	4.1	<0.05	0.3	<0.3	3.3	0.3	0.02
D00006265	19.2	16.7	0.14	1.1	<0.3	7.0	1.6	0.03
D00006266	22.7	20.7	0.21	3.0	<0.3	13.8	5.4	0.05
D00006267	16.9	26.9	0.09	3.6	<0.3	18.9	10.1	0.11
D00006268	9.7	26.9	0.09	2.9	0.3	12.8	1.4	0.10
D00006269	18.2	31.6	0.13	3.0	<0.3	16.3	7.0	0.07
D00006270	21.0	17.8	0.14	3.7	0.3	8.3	4.9	0.08
D00006271	34.7	21.8	0.22	3.6	0.4	11.1	5.6	0.12
D00006272	5.8	5.8	<0.05	0.4	0.3	13.5	0.1	0.02
D00006273	9.2	23.6	0.09	1.4	<0.3	8.9	1.2	0.07
D00006274	41.6	49.9	0.14	3.9	<0.3	18.3	6.0	0.11
D00006275	49.1	77.5	0.20	6.8	0.3	22.3	7.5	0.20
D00006276	64.4	29.8	0.18	2.2	<0.3	21.3	4.8	0.07
D00006277	17.8	83.9	0.18	5.0	<0.3	16.3	9.2	0.19
D00006278	39.2	62.7	0.21	3.8	0.5	13.8	6.0	0.18
D00006279	9.6	44.8	0.10	1.5	<0.3	8.3	10.4	0.07
D00006280	15.1	49.8	0.10	6.2	<0.3	13.2	3.2	0.13
D00006281	13.9	46.7	0.11	5.5	<0.3	12.4	2.6	0.12
D00006282	8.0	19.5	0.55	1.3	0.3	7.6	1.2	0.05
D00006283	29.5	23.8	0.52	2.1	0.4	9.8	6.2	0.08
D00006284	10.0	21.2	0.64	1.8	0.4	9.4	3.3	0.06

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006197	16.6	9.6	0.37	1.0	0.3	4.5	0.7	0.03
*Rep D00006259	51.2	37.0	0.27	2.4	0.6	6.4	13.3	0.10
*Rep D00006265	19.7	17.0	0.14	1.1	<0.3	6.8	1.5	0.03
*Std OREAS920	20.1	22.2	0.51	2.9	0.9	15.7	15.0	0.12
*Std OREAS151B	40.3	18.9	0.51	9.0	0.9	34.1	2.4	0.07
*Std OREAS902	10.0	8.4	0.81	2.6	<0.3	19.2	5.1	<0.01
*Std OREAS920	20.7	24.5	0.69	2.8	1.0	16.2	15.5	0.13
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	0.2	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006179	0.23	1.23	56	0.5	10.0	139
D00006180	<0.02	0.09	<1	<0.1	0.67	<1
D00006181	0.29	1.79	77	0.1	12.8	190
D00006182	0.24	2.33	61	0.2	19.9	92
D00006183	0.59	1.29	74	0.1	13.6	105
D00006184	0.51	1.27	106	0.1	8.96	114
D00006185	0.13	0.94	22	0.2	5.00	26
D00006186	0.05	2.41	10	<0.1	17.3	18
D00006187	0.20	0.55	45	0.4	4.57	33
D00006188	0.29	0.82	43	0.3	9.96	57
D00006189	0.40	0.95	85	0.4	12.0	499
D00006190	0.26	0.78	64	0.2	11.0	69
D00006191	0.47	1.65	56	0.2	17.1	77
D00006192	0.51	1.60	52	0.1	15.5	84
D00006193	0.33	0.99	87	0.2	9.24	96
D00006194	0.30	0.75	84	0.2	8.32	67
D00006195	0.17	0.75	40	0.3	7.93	57
D00006196	0.21	0.73	44	0.4	7.02	58
D00006197	0.13	0.65	30	0.3	3.56	39
D00006198	0.20	1.81	16	0.1	21.5	46
D00006199	0.29	0.79	63	0.4	4.46	50
D00006200	0.40	0.72	108	0.5	7.23	88
D00006231	0.10	0.51	18	<0.1	1.89	39
D00006232	0.26	0.93	52	<0.1	8.77	275
D00006233	0.03	0.74	8	<0.1	3.99	23
D00006234	0.13	0.33	20	0.1	1.92	32
D00006235	0.17	1.15	38	0.2	11.0	87
D00006236	0.09	2.29	53	0.2	9.86	117
D00006237	0.06	1.16	15	<0.1	12.5	29
D00006238	0.20	3.48	47	0.2	34.4	77
D00006239	0.11	1.67	29	0.2	5.73	51
D00006240	<0.02	0.08	<1	<0.1	0.67	<1
D00006241	0.10	0.36	38	0.2	3.90	55
D00006242	0.18	0.62	35	0.1	6.09	117
D00006243	0.12	0.98	28	0.1	8.73	197
D00006244	0.13	3.47	33	<0.1	18.7	328
D00006245	0.26	0.61	66	0.4	4.04	70
D00006246	0.23	0.74	67	0.3	4.59	64
D00006247	0.19	1.17	44	0.1	12.9	146
D00006248	0.12	1.20	56	<0.1	16.1	221

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006249	0.15	0.74	55	0.1	11.1	139
D00006250	0.05	0.50	41	<0.1	8.25	105
D00006251	0.13	1.22	21	0.1	8.46	45
D00006252	0.12	0.85	17	0.2	3.28	21
D00006253	0.36	1.22	52	0.3	4.70	50
D00006254	0.10	0.98	30	0.3	3.40	43
D00006255	0.12	1.06	33	0.3	6.93	40
D00006256	0.30	1.41	40	0.2	9.00	54
D00006257	0.20	1.63	20	0.2	8.96	44
D00006258	0.22	1.08	33	0.5	11.3	51
D00006259	0.24	0.63	46	0.3	5.92	45
D00006260	<0.02	0.07	<1	<0.1	0.68	<1
D00006261	0.06	0.38	7	0.1	2.10	21
D00006262	0.07	0.25	7	0.2	1.51	13
D00006263	0.14	0.43	13	0.1	2.18	59
D00006264	0.04	0.11	10	<0.1	0.42	13
D00006265	0.11	0.63	15	<0.1	3.71	46
D00006266	0.15	0.56	38	0.1	4.83	83
D00006267	0.19	2.07	39	<0.1	14.0	247
D00006268	0.13	0.54	50	<0.1	3.46	125
D00006269	0.18	1.10	36	0.1	8.15	206
D00006270	0.16	0.86	48	<0.1	7.97	143
D00006271	0.20	0.95	56	0.1	7.51	192
D00006272	0.06	0.35	20	<0.1	3.27	42
D00006273	0.15	0.57	17	<0.1	4.15	60
D00006274	0.42	2.56	47	<0.1	10.6	110
D00006275	0.58	4.41	82	<0.1	16.6	186
D00006276	0.23	6.65	22	<0.1	15.0	113
D00006277	0.62	2.50	75	0.1	12.5	87
D00006278	0.48	2.03	60	0.3	9.64	87
D00006279	0.29	3.30	12	<0.1	13.6	41
D00006280	0.42	1.02	40	<0.1	29.4	53
D00006281	0.38	0.92	37	<0.1	25.7	51
D00006282	0.14	0.73	32	0.3	5.47	43
D00006283	0.20	1.06	31	0.3	7.70	55
D00006284	0.16	1.16	37	0.5	10.5	56

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Final : VC173362 Order: PO# BMC17-01017

Report File No.: 0000025559

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006197	0.13	0.61	31	0.2	3.49	39
*Rep D00006259	0.23	0.65	47	0.3	5.87	45
*Rep D00006265	0.11	0.64	14	<0.1	3.75	46
*Std OREAS920	0.15	2.05	23	0.5	16.9	101
*Std OREAS151B	0.13	0.59	144	0.6	10.6	233
*Std OREAS902	0.20	2.17	9	2.1	7.18	5
*Std OREAS920	0.15	2.18	21	0.5	18.0	105
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC173363
[Report File No.: 0000025673]

Date: November 02, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01017
Project No.: KZK
Samples: 76
Received: Sep 25, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
76	G_LOG02	Pre-preparation processing, sorting, logging, boxing
76	G_WGH79	Weighing of samples and reporting of weights
76	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
76	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006285	0.635	<5	0.04	0.89	8	82	0.19	0.08
D00006286	0.615	6	0.05	1.49	9	103	0.22	0.11
D00006287	0.575	6	0.03	1.47	7	103	0.17	0.32
D00006288	0.585	7	0.33	0.99	16	50	0.27	0.15
D00006289	0.755	6	0.03	0.99	10	111	0.23	0.22
D00006290	0.450	7	0.39	0.79	25	112	0.42	0.40
D00006291	0.675	<5	0.14	1.32	25	121	0.09	0.61
D00006292	0.720	5	0.17	1.11	12	62	0.30	0.23
D00006293	0.615	<5	0.19	1.26	14	81	0.27	0.25
D00006294	0.430	8	0.60	0.94	12	79	0.32	0.19
D00006295	0.595	5	0.02	0.36	5	22	0.21	0.03
D00006296	0.260	5	0.30	0.43	2	46	0.08	0.50
D00006297	0.270	10	0.27	0.38	3	35	0.04	0.43
D00006298	0.340	<5	0.56	0.77	5	71	0.10	0.43
D00006299	0.655	7	0.05	0.72	17	79	0.17	0.12
D00006300	0.600	6	0.14	1.08	17	89	0.18	0.19
D00006301	0.735	6	0.09	1.27	16	93	0.18	0.21
D00006302	0.675	7	0.06	1.07	191	133	0.26	0.24
D00006303	0.635	5	0.08	1.29	34	68	0.29	0.15
D00006304	0.690	8	0.09	0.99	11	74	0.26	0.22
D00006305	0.655	9	0.56	0.75	15	79	0.55	0.24
D00006306	0.325	10	0.18	0.54	10	60	0.31	0.09
D00006307	0.600	9	0.14	2.48	15	269	0.22	0.61
D00006308	0.605	8	0.18	1.24	11	99	0.68	0.38
D00006309	0.470	6	0.15	1.00	10	79	0.59	0.19
D00006310	0.660	6	0.11	1.65	47	130	0.81	0.34
D00006311	0.390	5	0.07	1.39	25	197	0.33	0.29
D00006312	0.235	14	0.12	1.23	12	335	0.37	2.09
D00006313	0.290	<5	0.04	2.18	10	281	0.26	0.34
D00006314	0.320	7	0.03	0.09	<1	13	<0.02	0.05
D00006315	0.470	13	0.18	1.95	42	255	0.33	0.67
D00006316	0.260	<5	0.06	0.80	4	125	0.11	0.65
D00006317	0.200	6	0.04	0.18	2	47	0.05	0.27
D00006318	0.405	6	0.19	2.06	27	145	0.49	0.40
D00006319	0.465	7	0.05	1.90	25	90	0.36	0.26
D00006320	0.325	7	0.11	1.42	14	179	0.25	0.56
D00006321	0.565	7	0.16	2.02	22	196	0.26	0.70
D00006322	0.580	16	0.02	2.40	25	210	0.38	0.94
D00006323	0.505	6	0.02	1.85	35	81	0.34	0.27
D00006324	0.295	19	0.14	1.56	18	289	0.25	1.41

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006325	0.465	6	0.52	2.72	20	181	0.69	0.34
D00006326	0.605	7	0.06	1.00	5	142	0.81	0.28
D00006327	0.665	5	0.07	1.18	3	114	1.04	0.27
D00006328	0.425	11	0.05	3.42	4	190	0.09	1.02
D00006329	0.440	5	0.04	1.87	59	88	0.26	0.22
D00006330	0.380	10	0.11	2.24	12	166	0.46	0.55
D00006331	0.450	13	0.03	4.01	2	134	0.10	0.70
D00006332	0.395	7	0.11	1.90	7	140	0.46	0.48
D00006333	0.355	15	0.07	1.83	25	94	0.19	0.32
D00006334	0.685	14	0.14	2.14	8	378	0.17	0.68
D00006335	0.480	14	0.13	2.62	32	199	0.28	0.87
D00006336	0.325	13	0.11	2.52	6	205	0.24	1.09
D00006337	0.455	6	0.11	2.56	16	146	0.34	0.57
D00006338	0.470	7	0.10	2.52	57	135	0.40	0.57
D00006339	0.435	7	0.14	2.58	50	166	0.36	0.64
D00006340	0.695	9	0.14	2.11	90	150	0.31	0.59
D00006341	0.415	17	1.71	1.43	39	230	3.76	0.25
D00006342	0.535	8	0.28	2.55	19	140	1.65	0.42
D00006343	0.475	12	0.23	2.71	7	265	0.52	0.67
D00006344	0.685	7	0.19	0.93	9	85	0.44	0.41
D00006345	0.390	15	0.55	1.98	14	424	0.72	0.66
D00006346	0.350	<5	0.23	2.04	10	336	0.27	0.80
D00006347	0.690	8	0.28	1.93	16	95	0.33	0.60
D00006348	0.525	13	0.29	1.92	12	259	0.33	0.56
D00006349	0.525	12	0.60	1.23	12	156	0.94	0.43
D00006350	0.375	7	0.35	1.70	10	198	0.52	0.70
D00006621	0.350	8	0.04	3.54	6	197	0.61	0.23
D00006622	0.605	5	0.12	2.87	3	95	0.51	0.34
D00006623	0.320	13	0.47	1.04	6	295	0.47	0.97
D00006624	0.430	8	0.49	0.94	6	208	0.84	0.20
D00006625	0.390	8	0.49	1.03	8	81	3.06	0.21
D00006626	0.485	16	0.16	1.06	8	306	0.61	0.64
D00006627	0.415	9	0.47	0.58	16	115	0.91	0.48
D00006628	0.600	7	0.16	0.57	8	85	0.55	0.17
D00006629	0.355	7	0.16	0.22	<1	40	0.10	0.11
D00006630	0.290	18	0.35	0.56	3	315	0.40	1.33
*Rep D00006309		<5						
*Rep D00006330		14						
*Rep D00006625		8						
*Std OREAS151B		72						

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Final : VC173363 Order: PO# BMC17-01017

Report File No.: 0000025673

Element	@Au	Ag	Al	As	Ba	Bi	Ca
Method	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	5	0.01	0.01	1	5	0.02	0.01
Units	ppb	ppm	%	ppm	ppm	ppm	%
*Std OXK119	3810						
*Std AMIS0474	171						
*Blk BLANK	7						
*Blk BLANK	8						
*Rep D00006288		0.31	0.98	16	49	0.28	0.15
*Rep D00006314		0.03	0.09	<1	12	<0.02	0.05
*Rep D00006347		0.28	2.00	16	95	0.32	0.61
*Std OREAS920		0.08	2.32	5	73	0.59	0.32
*Std OREAS920		0.10	2.35	4	73	0.59	0.33
*Std OREAS151B		0.51	2.37	32	64	0.40	1.30
*Std OREAS902		0.28	0.46	579	15	8.53	4.06
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK		<0.01	<0.01	<1	<5	<0.02	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006285	0.09	51.4	5.0	11	8.2	2.37	5.5	0.03
D00006286	0.08	80.4	9.6	31	12.1	3.50	6.8	<0.01
D00006287	0.09	85.9	8.5	16	13.1	2.96	6.5	<0.01
D00006288	0.34	48.5	4.8	20	11.0	2.31	4.6	0.04
D00006289	0.17	56.1	5.4	20	10.9	1.75	3.5	<0.01
D00006290	0.19	69.1	8.6	14	13.7	3.13	2.5	0.06
D00006291	0.23	84.2	23.5	21	16.3	4.45	5.0	0.03
D00006292	0.27	28.1	8.2	25	14.1	2.61	5.3	0.01
D00006293	0.16	82.8	14.6	20	13.8	3.15	4.1	0.02
D00006294	0.27	34.1	7.3	18	9.8	2.96	4.0	0.06
D00006295	0.02	22.4	1.8	6	5.3	0.66	3.9	<0.01
D00006296	0.12	23.4	2.2	5	6.0	0.68	2.2	0.03
D00006297	0.24	13.6	1.6	2	11.3	0.45	1.5	<0.01
D00006298	0.13	26.0	3.7	8	6.7	0.95	2.5	0.02
D00006299	0.82	46.6	4.3	15	9.6	1.84	3.4	0.02
D00006300	0.51	42.8	8.5	21	16.8	2.21	3.4	0.04
D00006301	0.17	48.7	8.8	27	13.1	2.19	4.1	0.02
D00006302	0.16	143	7.8	14	14.0	2.68	4.4	0.02
D00006303	0.20	41.3	10.2	26	14.9	3.08	5.5	0.01
D00006304	0.27	70.3	7.5	17	14.2	2.51	3.6	0.01
D00006305	0.45	53.2	6.6	16	12.5	2.08	3.4	0.10
D00006306	0.65	39.6	5.2	11	10.5	1.74	3.4	0.05
D00006307	0.26	48.9	18.9	49	16.0	5.03	9.2	0.01
D00006308	0.37	64.9	8.3	21	24.5	2.46	4.3	0.02
D00006309	0.50	43.6	11.7	26	36.2	3.06	4.6	0.01
D00006310	0.67	50.0	13.9	37	22.2	3.58	6.2	<0.01
D00006311	0.37	44.1	9.3	25	10.3	2.88	5.9	<0.01
D00006312	0.80	64.3	10.4	19	50.8	2.39	3.8	0.04
D00006313	0.56	75.9	17.1	37	28.2	4.03	8.2	0.02
D00006314	0.10	1.72	0.9	2	1.4	0.33	0.7	0.02
D00006315	0.08	56.0	14.5	36	24.5	3.62	6.5	0.01
D00006316	0.32	28.9	2.2	5	6.8	0.63	3.0	0.03
D00006317	0.48	8.69	1.1	4	2.4	0.36	1.0	0.06
D00006318	0.61	62.4	15.9	39	30.4	3.84	7.4	0.02
D00006319	0.23	30.9	12.0	51	12.4	3.12	6.8	0.02
D00006320	0.66	16.8	10.9	37	15.9	2.51	6.2	0.02
D00006321	0.64	32.7	17.9	54	23.4	3.58	7.6	<0.01
D00006322	0.32	27.7	23.8	74	43.6	4.56	8.0	<0.01
D00006323	0.34	35.1	13.5	40	15.6	3.76	6.9	<0.01
D00006324	11.9	38.1	8.9	27	26.6	1.69	4.7	0.05

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006325	5.04	114	38.4	67	117	5.44	8.9	0.02
D00006326	0.28	234	9.0	8	18.0	3.35	4.4	0.02
D00006327	0.25	172	10.2	15	15.6	2.90	5.7	0.02
D00006328	0.30	91.2	32.8	52	42.2	6.11	10.9	0.03
D00006329	0.09	135	8.9	14	13.7	3.45	8.8	0.02
D00006330	0.43	181	16.5	25	18.9	4.92	10.6	0.03
D00006331	0.11	23.2	30.5	100	15.1	6.92	12.0	0.02
D00006332	0.24	146	14.1	20	21.2	4.09	8.0	0.03
D00006333	0.17	59.8	13.1	29	13.7	3.99	8.6	0.05
D00006334	0.19	44.0	19.2	36	22.8	4.24	7.1	0.01
D00006335	0.18	56.4	20.1	50	18.3	4.83	8.3	0.02
D00006336	0.62	69.2	20.1	48	22.4	4.85	9.3	0.03
D00006337	0.37	163	19.6	39	22.8	5.10	10.5	0.02
D00006338	0.13	115	18.4	31	19.1	4.62	9.0	0.01
D00006339	0.28	97.3	19.0	36	15.9	5.49	9.5	0.04
D00006340	0.58	123	16.9	43	21.5	4.56	7.3	<0.01
D00006341	1.00	73.6	14.0	27	108	4.04	5.4	0.05
D00006342	0.25	46.3	16.8	38	25.3	5.04	8.2	0.01
D00006343	0.39	51.6	19.1	40	25.9	5.15	9.3	0.03
D00006344	0.34	59.7	8.1	14	26.0	2.35	3.4	<0.01
D00006345	0.89	53.1	17.7	36	64.9	4.09	6.1	0.03
D00006346	0.37	53.5	17.9	34	27.6	4.18	7.0	0.02
D00006347	1.17	51.0	16.2	36	61.4	4.22	6.2	<0.01
D00006348	0.48	52.2	16.5	32	40.5	3.84	6.0	0.02
D00006349	1.02	80.2	11.7	22	47.2	2.96	4.3	0.02
D00006350	1.14	82.4	11.7	27	44.8	3.21	5.5	0.03
D00006621	0.15	37.8	24.1	47	49.6	6.70	13.4	0.02
D00006622	0.99	44.0	19.5	82	62.9	4.39	7.6	0.01
D00006623	3.50	59.5	6.7	26	65.8	1.77	3.1	0.06
D00006624	1.38	70.0	11.9	29	28.5	2.18	3.8	0.05
D00006625	2.03	63.7	10.0	35	141	2.14	3.3	0.06
D00006626	2.63	60.5	10.4	25	49.0	2.69	4.8	0.03
D00006627	0.98	42.4	7.5	12	28.8	2.05	2.3	0.06
D00006628	0.27	53.1	6.3	11	18.1	1.64	2.3	<0.01
D00006629	0.09	16.0	1.5	3	5.3	0.63	1.3	0.02
D00006630	1.22	185	6.0	12	22.0	1.29	3.7	0.10

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
*Rep D00006288	0.31	45.9	4.5	20	10.5	2.30	4.5	0.04
*Rep D00006314	0.12	1.69	0.8	3	1.2	0.29	0.7	0.02
*Rep D00006347	1.20	50.5	15.9	36	60.4	4.29	6.3	0.01
*Std OREAS920	0.06	69.1	14.8	43	110	3.38	6.9	<0.01
*Std OREAS920	0.05	67.4	13.9	42	107	3.56	6.9	<0.01
*Std OREAS151B	0.56	15.3	10.6	25	1690	3.23	7.4	0.01
*Std OREAS902	0.02	30.7	933	24	2810	3.03	1.5	0.05
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006285	0.30	23.5	0.28	477	1.92	0.01	8.2	410
D00006286	0.75	44.0	0.68	251	2.00	0.01	22.8	450
D00006287	0.59	45.4	0.83	326	0.96	0.01	13.3	910
D00006288	0.15	21.7	0.29	155	1.55	0.01	11.9	710
D00006289	0.12	33.2	0.36	192	1.00	0.01	16.6	710
D00006290	0.15	63.3	0.21	841	2.28	0.01	13.4	910
D00006291	0.29	48.1	0.60	1450	1.34	0.01	24.1	2270
D00006292	0.28	14.9	0.57	419	1.19	0.01	14.7	1250
D00006293	0.12	27.5	0.55	704	1.13	0.01	21.5	1060
D00006294	0.10	14.2	0.27	601	1.39	0.01	14.6	1530
D00006295	0.05	11.1	0.05	47	0.74	0.01	2.9	210
D00006296	0.03	26.0	0.08	231	0.52	0.03	2.8	1360
D00006297	0.02	11.4	0.05	107	0.38	0.04	3.9	430
D00006298	0.08	17.2	0.18	282	0.54	0.03	5.4	900
D00006299	0.10	23.3	0.21	155	1.78	0.01	11.5	650
D00006300	0.15	21.6	0.36	301	1.58	0.01	20.8	830
D00006301	0.14	25.0	0.48	267	0.99	0.01	21.6	790
D00006302	0.26	74.5	0.35	606	1.39	0.01	12.9	890
D00006303	0.48	19.0	0.60	377	1.41	0.01	13.9	650
D00006304	0.17	30.2	0.34	239	1.58	0.01	15.4	970
D00006305	0.27	23.7	0.30	334	1.69	0.02	7.9	1070
D00006306	0.21	19.2	0.22	209	1.42	<0.01	9.1	530
D00006307	1.09	20.4	1.51	704	0.92	0.01	21.2	1020
D00006308	0.22	27.7	0.87	332	1.89	0.01	20.4	870
D00006309	0.54	20.3	0.53	269	1.51	0.01	18.4	660
D00006310	0.77	21.0	0.98	452	1.45	0.01	16.0	790
D00006311	0.69	24.2	0.54	286	1.27	0.01	11.9	610
D00006312	0.30	82.0	0.54	542	0.93	0.01	19.0	1180
D00006313	0.88	62.1	1.10	606	1.13	0.01	18.0	1040
D00006314	0.05	0.9	0.03	21	0.13	0.03	0.7	230
D00006315	0.23	44.5	0.93	488	1.50	0.01	21.8	1180
D00006316	0.05	21.4	0.11	114	0.52	0.03	3.7	850
D00006317	0.04	5.0	0.04	33	0.41	0.02	1.9	460
D00006318	0.28	43.4	0.87	687	2.04	0.02	24.6	1320
D00006319	0.42	13.3	0.96	463	1.21	0.02	22.0	980
D00006320	0.26	10.7	0.70	394	0.85	0.03	17.0	760
D00006321	0.40	16.2	1.08	628	0.99	0.02	26.9	1340
D00006322	0.48	11.1	1.52	555	1.16	0.01	51.1	1310
D00006323	0.54	15.1	0.98	380	1.35	0.02	20.5	1050
D00006324	0.27	37.8	0.63	221	1.64	0.03	27.4	1040

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006325	0.16	75.4	1.45	1460	2.67	0.02	94.3	1300
D00006326	0.34	102	0.25	752	3.95	0.02	9.4	1000
D00006327	0.35	83.8	0.40	665	2.30	0.01	11.9	860
D00006328	1.25	42.5	2.32	1310	1.24	0.01	23.1	1600
D00006329	0.49	71.3	0.67	361	1.66	0.02	10.1	880
D00006330	0.92	118	1.14	920	2.37	0.01	14.8	1140
D00006331	1.85	13.5	2.68	1060	2.09	0.01	15.9	860
D00006332	0.87	77.4	0.92	552	2.73	0.01	15.3	740
D00006333	0.74	19.7	1.02	596	1.78	0.01	8.5	960
D00006334	0.90	23.1	1.23	624	1.27	0.02	14.5	960
D00006335	1.10	33.6	1.55	796	1.87	0.01	20.6	820
D00006336	1.21	42.1	1.47	904	1.27	0.01	22.9	1060
D00006337	0.88	92.6	1.53	924	1.73	0.02	17.9	1130
D00006338	0.66	70.2	1.56	711	2.04	0.01	18.5	910
D00006339	0.90	67.5	1.51	816	1.77	0.01	16.7	1040
D00006340	0.83	70.1	1.34	679	1.63	0.01	21.3	1330
D00006341	0.32	50.3	0.63	852	2.58	0.01	12.0	1020
D00006342	1.14	24.7	1.57	625	1.50	0.01	13.9	1030
D00006343	1.21	26.5	1.61	830	1.62	0.01	14.4	920
D00006344	0.36	32.2	0.51	238	1.41	0.01	13.7	1110
D00006345	0.85	27.9	1.24	588	1.57	0.01	23.1	920
D00006346	0.84	28.4	1.20	730	1.65	<0.01	16.0	770
D00006347	0.17	28.3	1.50	488	2.25	<0.01	38.1	1350
D00006348	0.56	27.8	1.17	630	1.60	0.01	20.6	1010
D00006349	0.32	39.1	0.80	567	1.57	0.01	17.6	990
D00006350	0.58	44.2	1.03	498	1.64	0.01	21.2	850
D00006621	1.58	16.8	2.13	1280	2.49	0.01	24.6	1040
D00006622	1.20	27.6	2.13	630	0.94	0.02	55.6	700
D00006623	0.15	40.3	0.50	372	1.56	0.01	19.0	1190
D00006624	0.13	36.8	0.43	1120	1.54	<0.01	17.8	770
D00006625	0.14	24.2	0.62	149	3.52	<0.01	23.6	480
D00006626	0.15	37.6	0.54	572	1.81	<0.01	19.6	1180
D00006627	0.09	26.9	0.19	536	3.52	<0.01	8.7	870
D00006628	0.09	27.5	0.22	284	1.49	<0.01	8.3	490
D00006629	0.03	10.0	0.03	26	0.44	0.02	2.0	580
D00006630	0.11	197	0.16	430	1.46	0.01	11.1	1670

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
*Rep D00006288	0.15	21.1	0.29	154	1.52	0.01	12.0	680
*Rep D00006314	0.05	0.9	0.03	21	0.18	0.03	0.7	240
*Rep D00006347	0.17	28.6	1.45	489	2.32	<0.01	39.4	1370
*Std OREAS920	0.41	35.6	1.12	516	0.37	0.03	38.7	750
*Std OREAS920	0.46	33.6	1.19	506	0.37	0.03	36.6	680
*Std OREAS151B	0.42	6.9	1.47	260	54.6	0.16	14.2	500
*Std OREAS902	0.22	14.7	2.09	455	12.0	0.01	160	640
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006285	8.1	52.1	0.41	1.9	0.6	5.5	10.1	0.12
D00006286	11.0	82.4	0.25	4.0	0.4	5.6	11.8	0.23
D00006287	12.8	54.3	0.38	4.3	0.4	11.8	13.2	0.20
D00006288	29.4	18.9	0.54	1.9	0.4	8.9	4.5	0.08
D00006289	17.3	13.1	0.41	2.1	0.3	12.2	6.0	0.06
D00006290	66.2	16.4	0.32	2.3	<0.3	12.9	7.6	0.03
D00006291	13.5	30.6	0.18	4.4	<0.3	18.6	8.2	0.07
D00006292	16.3	39.5	0.16	2.4	0.4	11.8	3.2	0.11
D00006293	31.8	15.3	0.31	2.9	<0.3	9.8	10.5	0.05
D00006294	31.3	14.6	0.35	1.3	<0.3	8.7	1.8	0.05
D00006295	7.6	6.4	0.17	0.5	0.4	3.3	0.4	0.06
D00006296	3.1	3.5	0.09	0.6	<0.3	20.2	0.7	0.02
D00006297	3.7	1.5	0.06	0.4	<0.3	17.0	0.7	0.02
D00006298	6.8	8.5	0.08	0.8	<0.3	16.3	0.5	0.02
D00006299	51.4	11.7	0.51	1.0	<0.3	10.5	0.9	0.04
D00006300	35.5	13.7	0.60	2.4	<0.3	14.2	5.5	0.06
D00006301	29.2	17.3	0.46	2.4	0.4	12.1	3.7	0.09
D00006302	25.9	41.3	0.31	3.0	0.4	14.3	22.6	0.09
D00006303	21.6	55.8	0.35	3.6	0.4	11.1	4.7	0.20
D00006304	31.5	25.7	0.39	2.0	0.3	12.4	11.9	0.07
D00006305	120	29.3	0.28	1.7	<0.3	26.1	4.8	0.08
D00006306	17.9	32.0	0.23	1.6	<0.3	6.9	5.6	0.07
D00006307	31.2	77.3	0.20	6.1	0.4	25.9	7.7	0.27
D00006308	42.8	28.0	0.17	2.3	<0.3	22.2	11.2	0.09
D00006309	27.9	47.8	0.17	3.5	<0.3	13.2	5.0	0.18
D00006310	55.4	96.6	0.22	5.6	0.3	19.7	8.2	0.25
D00006311	12.5	75.2	0.34	3.6	0.4	14.1	4.2	0.20
D00006312	33.4	30.1	0.23	3.0	<0.3	90.7	4.6	0.10
D00006313	23.7	76.7	0.16	5.4	0.5	16.2	7.5	0.26
D00006314	0.9	3.1	<0.05	0.4	<0.3	3.7	0.1	0.02
D00006315	18.3	41.0	0.10	4.6	0.5	26.0	2.9	0.11
D00006316	8.0	4.4	0.07	0.8	<0.3	29.1	0.6	0.03
D00006317	3.2	2.5	0.07	0.6	<0.3	11.8	0.3	0.02
D00006318	62.2	49.3	0.20	3.7	0.4	20.0	2.4	0.10
D00006319	19.1	57.2	0.12	2.2	0.5	12.4	0.9	0.15
D00006320	14.2	33.3	0.13	2.1	0.5	24.1	0.8	0.17
D00006321	17.8	54.9	0.14	3.8	0.5	26.1	2.8	0.19
D00006322	8.5	51.7	0.18	4.2	0.4	36.6	4.1	0.22
D00006323	15.9	69.5	0.13	3.5	0.5	11.5	3.1	0.20
D00006324	9.9	37.0	0.12	2.7	<0.3	41.6	1.9	0.08

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006325	163	25.5	0.29	6.1	<0.3	32.7	7.2	0.09
D00006326	21.3	43.7	0.19	2.0	0.3	37.4	24.4	0.09
D00006327	46.2	52.1	0.17	2.7	0.5	13.4	19.0	0.10
D00006328	12.6	127	0.13	6.3	0.4	36.1	6.9	0.36
D00006329	28.6	77.7	0.15	3.9	0.7	13.5	15.9	0.18
D00006330	43.2	105	0.16	5.7	0.7	31.0	17.7	0.26
D00006331	6.1	151	0.12	4.1	0.4	17.2	3.5	0.43
D00006332	32.3	102	0.17	5.8	0.6	22.3	21.1	0.25
D00006333	27.6	121	0.15	3.4	0.8	17.0	4.8	0.27
D00006334	24.4	61.6	0.12	3.9	<0.3	30.7	6.7	0.28
D00006335	27.5	158	0.15	4.6	0.5	33.3	8.7	0.32
D00006336	21.4	125	0.11	7.2	0.4	31.4	9.5	0.30
D00006337	43.3	103	0.18	5.0	0.6	26.4	14.6	0.28
D00006338	35.8	116	0.16	4.6	0.6	23.5	13.9	0.24
D00006339	35.6	124	0.17	6.5	0.6	26.8	13.4	0.26
D00006340	34.9	103	0.17	7.0	0.4	28.1	17.8	0.30
D00006341	104	47.3	0.32	3.4	0.3	25.0	5.7	0.11
D00006342	28.2	103	0.16	4.4	0.4	25.7	6.8	0.28
D00006343	30.1	106	0.15	4.4	0.5	29.8	6.3	0.26
D00006344	26.1	34.6	0.24	2.3	<0.3	27.0	12.9	0.11
D00006345	90.8	55.8	0.21	2.7	<0.3	36.6	5.4	0.17
D00006346	36.2	68.5	0.12	3.0	<0.3	37.8	5.8	0.19
D00006347	27.3	21.2	0.14	4.4	<0.3	21.2	8.4	0.07
D00006348	29.8	43.6	0.15	3.4	<0.3	25.6	5.9	0.15
D00006349	67.0	32.3	0.17	2.5	<0.3	35.3	10.2	0.10
D00006350	49.4	53.3	0.21	3.3	<0.3	33.7	8.9	0.13
D00006621	15.5	145	0.18	12.2	1.0	41.5	6.6	0.56
D00006622	16.7	138	0.08	9.0	1.7	13.7	10.4	0.28
D00006623	34.2	19.8	0.69	1.6	<0.3	31.9	2.7	0.05
D00006624	76.0	21.0	0.39	2.0	<0.3	8.7	4.7	0.05
D00006625	97.8	24.4	0.34	3.2	<0.3	7.3	8.3	0.07
D00006626	21.0	20.8	0.31	2.4	0.3	15.8	2.7	0.08
D00006627	87.2	12.4	0.43	1.5	<0.3	13.4	7.0	0.03
D00006628	23.8	14.1	0.22	1.7	<0.3	8.9	12.5	0.03
D00006629	6.4	3.2	0.05	0.5	<0.3	7.2	0.6	0.02
D00006630	19.3	12.9	0.30	1.6	<0.3	37.8	3.7	0.05

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
*Rep D00006288	29.2	18.9	0.55	1.9	0.4	8.5	4.6	0.08
*Rep D00006314	1.3	3.0	<0.05	0.4	<0.3	3.4	<0.1	0.02
*Rep D00006347	27.7	21.6	0.14	4.4	<0.3	21.5	8.6	0.07
*Std OREAS920	20.2	24.8	0.64	2.8	1.0	15.8	15.5	0.13
*Std OREAS920	19.2	25.1	0.66	2.9	1.0	15.7	15.2	0.13
*Std OREAS151B	39.9	18.6	0.54	8.8	1.1	35.0	2.5	0.07
*Std OREAS902	9.8	8.7	0.84	2.7	<0.3	19.7	5.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006285	0.30	0.70	29	0.3	5.96	50
D00006286	0.54	0.56	47	0.1	10.1	59
D00006287	0.40	0.74	47	0.2	12.5	67
D00006288	0.17	0.90	46	0.5	6.78	53
D00006289	0.13	1.15	31	0.3	7.67	45
D00006290	0.15	2.97	19	0.1	15.2	87
D00006291	0.29	1.06	46	<0.1	31.5	79
D00006292	0.20	0.75	52	0.1	5.75	100
D00006293	0.15	0.95	41	0.2	10.7	61
D00006294	0.12	1.00	36	0.2	5.76	44
D00006295	0.06	0.43	23	0.2	2.04	15
D00006296	0.04	1.05	14	<0.1	9.53	13
D00006297	0.04	2.30	6	<0.1	5.25	42
D00006298	0.08	1.50	14	<0.1	6.29	38
D00006299	0.11	0.92	35	0.3	5.30	147
D00006300	0.21	1.12	35	0.2	7.79	596
D00006301	0.17	0.89	45	0.3	7.24	63
D00006302	0.35	3.11	23	0.1	15.1	72
D00006303	0.38	1.00	68	0.2	7.37	74
D00006304	0.30	1.62	29	0.3	8.94	65
D00006305	0.22	3.85	27	0.3	7.46	83
D00006306	0.28	1.14	25	0.3	3.37	74
D00006307	0.59	1.18	133	0.1	11.5	119
D00006308	0.25	1.77	33	0.1	8.49	133
D00006309	0.46	0.80	55	<0.1	6.04	193
D00006310	0.77	1.43	74	0.1	8.34	186
D00006311	0.45	0.83	62	0.1	8.60	88
D00006312	0.26	2.17	42	<0.1	44.0	152
D00006313	0.47	1.39	82	0.1	25.0	185
D00006314	0.04	0.11	10	<0.1	0.29	8
D00006315	0.35	8.87	65	0.1	29.8	97
D00006316	0.06	2.72	11	<0.1	9.50	18
D00006317	0.03	0.76	6	<0.1	2.79	14
D00006318	0.32	5.85	70	0.1	25.2	428
D00006319	0.34	1.21	62	0.1	7.44	101
D00006320	0.19	0.75	57	0.1	4.72	136
D00006321	0.30	1.31	83	0.1	8.91	189
D00006322	0.39	1.08	91	0.2	6.56	168
D00006323	0.37	1.03	75	0.2	7.26	74
D00006324	0.24	22.6	34	0.1	28.7	304

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006325	0.29	3.69	83	0.1	36.9	1880
D00006326	0.40	3.48	16	0.1	26.0	131
D00006327	0.38	2.41	28	0.2	24.1	375
D00006328	0.68	1.36	149	0.3	21.7	139
D00006329	0.53	1.96	40	0.1	20.4	84
D00006330	0.70	2.42	70	0.3	33.7	133
D00006331	0.68	0.61	164	0.3	6.14	127
D00006332	0.87	3.90	63	0.2	26.9	102
D00006333	0.80	1.82	86	0.1	9.83	89
D00006334	0.47	1.04	91	0.1	10.4	115
D00006335	1.13	3.33	106	0.1	19.0	130
D00006336	0.92	2.48	115	0.1	19.0	123
D00006337	0.66	3.07	92	0.2	31.8	153
D00006338	0.99	2.71	82	0.2	18.8	112
D00006339	0.96	2.69	93	0.2	21.2	137
D00006340	0.94	3.14	70	<0.1	24.2	167
D00006341	0.40	2.87	44	0.2	15.0	324
D00006342	0.71	1.19	90	0.2	8.34	160
D00006343	0.74	1.75	94	0.1	13.6	187
D00006344	0.30	1.63	27	0.1	11.8	93
D00006345	0.44	1.67	60	0.2	12.9	267
D00006346	0.56	1.39	69	<0.1	10.4	140
D00006347	0.22	1.75	45	<0.1	14.7	420
D00006348	0.36	1.63	54	0.1	12.5	181
D00006349	0.30	2.35	31	<0.1	12.0	231
D00006350	0.44	2.47	48	<0.1	18.1	291
D00006621	1.13	1.67	136	0.1	13.0	199
D00006622	1.10	1.92	68	0.1	20.2	255
D00006623	0.17	3.67	26	0.2	26.9	316
D00006624	0.22	2.78	29	0.2	16.1	258
D00006625	0.32	2.57	25	0.2	13.1	539
D00006626	0.17	2.76	40	0.2	21.8	334
D00006627	0.17	4.08	18	0.2	16.1	238
D00006628	0.14	1.89	18	0.2	10.1	144
D00006629	0.05	0.77	16	<0.1	3.05	15
D00006630	0.13	2.57	21	0.1	73.6	62

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Final : VC173363 Order: PO# BMC17-01017

Report File No.: 0000025673

Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
*Rep D00006288	0.16	1.01	45	0.6	6.70	52
*Rep D00006314	0.04	0.12	10	<0.1	0.27	8
*Rep D00006347	0.21	1.80	44	<0.1	15.1	424
*Std OREAS920	0.16	2.21	23	0.6	18.5	106
*Std OREAS920	0.16	2.15	22	0.6	18.3	100
*Std OREAS151B	0.13	0.59	127	0.6	10.6	221
*Std OREAS902	0.22	2.24	8	2.1	7.55	5
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Certificate of Analysis
Work Order : VC173364
[Report File No.: 0000025674]

Date: November 02, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01017
Project No.: KZK
Samples: 91
Received: Sep 25, 2017
Pages: Page 1 to 16
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
91	G_LOG02	Pre-preparation processing, sorting, logging, boxing
91	G_WGH79	Weighing of samples and reporting of weights
91	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
91	GE_IMS14B	Aqua Regia digestion/ICP-MS package

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE AFTER 30 DAYS
PULP STORAGE : PAID STORE AFTER 90 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006631	0.480	15	0.11	1.48	3	123	0.23	0.40
D00006632	0.570	<5	0.12	0.74	3	96	0.55	0.12
D00006633	0.550	<5	0.09	0.97	4	120	0.27	0.22
D00006634	0.325	<5	0.33	0.96	6	392	0.35	0.19
D00006635	0.560	<5	0.04	0.90	6	220	0.33	0.17
D00006636	0.615	<5	0.15	0.55	4	153	0.19	0.16
D00006637	0.595	<5	0.04	0.67	2	81	0.14	0.16
D00006638	0.565	<5	0.16	0.94	5	196	0.22	0.26
D00006639	0.490	<5	0.01	0.50	2	46	0.15	0.04
D00006640	0.110	<5	<0.01	0.01	<1	<5	<0.02	<0.01
D00006641	0.405	<5	0.03	0.37	1	33	0.10	<0.01
D00006642	0.535	<5	0.42	2.04	8	240	0.30	0.33
D00006643	0.590	<5	0.03	2.16	7	135	0.21	0.33
D00006644	0.305	<5	0.06	0.21	1	32	0.05	0.05
D00006645	0.250	<5	0.25	1.38	9	211	0.48	0.23
D00006646	0.360	<5	0.10	0.72	3	106	0.36	0.13
D00006647	0.400	<5	0.18	1.21	7	127	0.25	0.21
D00006648	0.525	6	0.06	1.46	7	234	0.34	0.35
D00006649	0.575	5	0.19	1.56	8	133	1.33	0.27
D00006650	0.670	6	0.26	1.84	14	91	4.78	0.20
D00006651	0.600	<5	0.16	2.28	15	120	0.16	0.55
D00006652	0.505	<5	0.40	2.23	22	165	0.22	0.54
D00006653	0.675	<5	0.24	2.25	15	94	0.19	0.61
D00006654	0.515	<5	0.31	1.10	8	93	0.11	0.33
D00006655	0.555	<5	0.35	2.12	20	154	0.24	0.36
D00006656	0.475	14	0.21	1.66	14	145	0.74	0.59
D00006657	0.560	11	0.25	2.00	15	88	0.19	0.65
D00006658	0.650	<5	0.22	2.77	29	110	0.22	0.40
D00006659	0.555	<5	0.24	2.31	17	154	0.20	0.50
D00006660	0.400	<5	0.20	0.97	9	72	0.15	0.10
D00006661	0.445	<5	0.22	1.16	12	83	0.16	0.14
D00006662	0.420	<5	0.11	1.72	11	98	0.33	0.21
D00006663	0.515	<5	0.04	1.47	28	75	0.27	0.22
D00006664	0.580	5	0.09	1.85	14	102	0.26	0.23
D00006665	0.300	<5	0.30	1.31	2	255	0.13	0.41
D00006666	0.695	7	0.03	1.36	12	171	0.20	0.30
D00006667	0.780	7	0.05	1.56	10	143	0.36	0.22
D00006668	0.470	5	0.10	1.74	19	99	0.39	0.16
D00006669	0.415	5	0.04	1.39	16	163	0.23	0.33
D00006670	0.545	<5	0.48	1.61	28	198	0.25	0.72

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00006671	0.370	7	2.38	2.68	59	39	0.28	0.03
D00006672	0.535	8	0.15	2.63	97	98	0.13	0.82
D00006673	0.605	<5	0.16	2.13	16	161	0.24	0.32
D00006674	0.725	<5	0.22	2.16	17	125	0.28	0.28
D00006675	0.255	<5	0.05	0.61	3	50	0.03	0.52
D00006676	0.645	7	0.08	1.60	12	126	1.04	0.21
D00006677	0.755	<5	0.16	1.62	9	92	1.16	0.17
D00006678	0.860	6	0.15	1.74	10	100	1.08	0.22
D00006679	0.645	<5	0.14	1.23	12	72	1.29	0.17
D00006680	0.375	<5	0.20	1.21	18	82	0.97	0.19
D00006681	0.715	<5	0.15	1.72	13	90	0.81	0.14
D00006682	0.645	<5	0.13	1.64	29	107	0.96	0.63
D00006683	0.550	12	0.23	1.03	12	123	1.33	0.46
D00006684	0.505	5	0.26	1.73	19	110	0.51	0.36
D00006685	0.685	<5	0.08	1.00	14	49	0.81	0.06
D00006686	0.555	<5	0.02	1.33	14	79	0.89	0.14
D00006687	0.450	<5	0.11	1.92	47	109	1.08	0.25
D00006688	0.595	<5	0.13	1.79	7	123	0.99	0.27
D00006689	0.580	<5	0.04	1.56	14	107	0.83	0.30
D00006690	0.625	<5	0.07	2.15	12	85	0.54	0.22
D00006691	0.780	<5	0.07	1.72	42	59	0.84	0.16
D00006692	0.585	26	0.10	1.87	41	84	0.41	0.41
D00006693	0.450	<5	0.12	1.47	18	118	0.67	0.13
D00006694	0.370	<5	0.06	1.82	32	51	0.69	0.28
D00006695	0.640	<5	0.13	2.20	25	106	0.45	0.33
D00007475	0.120	14	0.14	1.79	8	200	0.24	0.96
D00007476	0.260	8	0.12	1.98	22	178	0.23	0.56
D00007477	0.260	7	0.10	1.49	14	147	0.26	0.64
D00007478	0.235	11	0.15	1.20	7	155	0.21	0.37
D00007479	0.270	7	0.08	2.13	9	124	0.24	0.46
D00007480	0.265	8	0.10	2.11	7	130	0.25	0.43
D00007481	0.130	11	0.17	1.78	12	177	0.32	0.58
D00007482	0.405	<5	0.03	1.18	7	108	0.28	0.14
D00007483	0.255	8	0.18	2.38	12	158	0.30	0.44
D00007484	0.485	6	0.07	1.35	6	99	0.35	0.26
D00007485	0.415	<5	0.05	2.22	8	123	0.39	0.38
D00007486	0.390	7	0.06	1.56	10	224	0.35	0.43
D00007487	0.340	5	0.47	2.76	15	191	0.46	0.38
D00007488	0.340	6	0.10	2.36	10	162	0.34	0.20
D00007489	0.145	6	0.63	1.28	8	262	0.40	0.37

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Element	WtKg	@Au	Ag	Al	As	Ba	Bi	Ca
Method	G_WGH79	GE_FAA313	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	5	0.01	0.01	1	5	0.02	0.01
Units	kg	ppb	ppm	%	ppm	ppm	ppm	%
D00007490	0.490	<5	0.06	1.64	7	108	0.27	0.18
D00007491	0.520	<5	0.04	1.63	7	93	0.25	0.14
D00007492	0.745	<5	0.35	1.22	5	118	0.35	0.49
D00007493	0.210	<5	0.13	1.00	5	117	0.35	0.09
D00007494	0.180	<5	0.52	0.80	5	85	0.20	0.11
D00007495	0.185	<5	0.09	0.31	<1	39	0.07	0.03
D00007496	0.255	<5	0.11	0.64	2	79	0.11	0.07
D00007497	0.330	<5	0.19	0.66	4	102	0.20	0.05
D00007498	0.580	<5	0.19	0.32	4	40	0.15	0.03
D00007499	0.420	<5	0.10	3.02	22	250	0.08	0.30
D00007500	0.545	<5	<0.01	3.39	30	157	0.19	0.29
*Rep D00006678		<5						
*Rep D00007485		<5						
*Rep D00007490		<5						
*Std OREAS151B		72						
*Std OXK119		3570						
*Std AMIS0474		175						
*Std OREAS151B		67						
*Blk BLANK		<5						
*Blk BLANK		<5						
*Blk BLANK		6						
*Rep D00006637			0.05	0.66	2	85	0.15	0.16
*Rep D00006680			0.17	1.23	19	82	0.97	0.19
*Rep D00007478			0.13	1.23	7	154	0.20	0.38
*Rep D00007484			0.07	1.39	6	99	0.35	0.28
*Std OREAS920			0.09	2.40	4	72	0.63	0.31
*Std OREAS151B			0.52	2.50	32	65	0.38	1.31
*Std OREAS902			0.30	0.49	585	14	8.41	3.91
*Std OREAS920			0.08	2.53	5	74	0.61	0.31
*Blk BLANK			<0.01	<0.01	<1	<5	<0.02	<0.01
*Blk BLANK			<0.01	<0.01	<1	<5	<0.02	<0.01

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006631	0.17	127	9.4	15	12.4	2.83	5.2	<0.01
D00006632	0.21	155	4.9	11	13.5	1.71	2.5	0.01
D00006633	0.26	97.8	5.5	15	13.0	1.77	3.1	<0.01
D00006634	1.67	87.2	20.4	17	10.8	1.79	3.5	0.02
D00006635	0.64	90.9	6.8	12	12.1	1.78	3.4	<0.01
D00006636	1.17	114	4.3	11	8.6	1.22	2.1	0.02
D00006637	0.06	76.3	2.5	11	3.9	1.09	2.8	0.02
D00006638	0.26	142	8.0	17	15.1	2.36	3.4	0.03
D00006639	0.06	46.9	4.1	7	7.2	1.56	3.0	0.01
D00006640	<0.01	1.09	<0.1	2	0.7	0.03	<0.1	<0.01
D00006641	0.04	43.6	1.2	4	3.6	0.50	2.8	<0.01
D00006642	0.17	137	13.4	34	20.8	4.11	7.2	0.05
D00006643	0.23	115	16.3	35	18.3	4.00	7.4	0.01
D00006644	0.16	20.0	1.3	5	2.9	0.52	1.1	0.02
D00006645	0.53	108	7.0	16	15.4	2.48	5.3	0.04
D00006646	0.46	85.6	4.1	12	9.8	1.82	3.4	<0.01
D00006647	0.16	89.3	7.6	16	14.7	2.23	4.8	<0.01
D00006648	0.77	55.2	10.4	28	26.2	3.32	6.8	<0.01
D00006649	1.88	84.6	18.6	30	220	3.59	5.4	0.02
D00006650	1.20	70.0	12.3	30	154	3.73	6.1	0.03
D00006651	0.19	49.2	15.9	46	41.5	4.14	7.4	<0.01
D00006652	1.33	57.7	22.3	47	45.7	4.33	7.4	0.03
D00006653	0.19	40.4	12.2	43	39.4	4.56	6.9	<0.01
D00006654	0.08	16.6	7.4	23	20.4	2.35	3.7	<0.01
D00006655	0.24	40.7	14.4	47	47.9	4.05	6.4	0.02
D00006656	0.22	40.3	13.4	44	27.6	3.26	5.6	0.02
D00006657	0.61	51.6	19.7	45	45.2	4.07	6.3	0.02
D00006658	0.16	47.8	24.3	59	46.4	5.40	8.8	<0.01
D00006659	0.23	57.6	16.0	49	39.0	4.15	7.5	0.02
D00006660	0.11	15.6	5.4	21	18.2	1.72	3.4	<0.01
D00006661	0.12	18.6	6.9	24	22.8	2.12	4.0	0.01
D00006662	0.30	56.3	10.2	33	20.6	3.29	5.4	<0.01
D00006663	0.33	41.5	19.0	33	25.8	3.89	5.9	0.01
D00006664	0.28	59.1	13.2	37	29.9	3.29	5.5	0.02
D00006665	0.11	30.6	0.9	8	4.0	0.93	4.6	0.03
D00006666	0.25	72.7	11.6	34	28.2	2.63	4.3	0.03
D00006667	0.12	54.9	11.8	32	21.4	2.48	5.1	<0.01
D00006668	0.29	32.3	12.6	41	21.6	4.18	6.3	<0.01
D00006669	0.32	37.8	10.6	36	21.4	2.88	4.6	0.02
D00006670	1.28	71.4	10.0	18	15.0	4.49	4.4	0.04

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00006671	0.31	34.2	34.4	35	293	12.1	8.6	0.03
D00006672	0.53	41.0	47.0	57	92.4	5.78	7.5	0.02
D00006673	0.09	37.6	12.0	33	15.0	3.71	6.9	<0.01
D00006674	0.15	53.5	16.1	44	36.7	4.02	6.5	<0.01
D00006675	0.20	7.22	2.8	5	12.7	1.17	1.8	<0.01
D00006676	0.50	66.2	12.5	37	91.4	3.15	5.1	<0.01
D00006677	0.27	45.5	12.8	47	54.1	2.88	4.6	<0.01
D00006678	0.43	37.2	17.3	56	51.4	3.01	4.7	0.03
D00006679	0.41	34.0	9.8	43	61.3	2.37	3.2	<0.01
D00006680	0.16	80.6	11.6	18	71.1	3.03	4.2	0.03
D00006681	0.12	81.6	7.7	30	32.9	2.82	5.9	0.01
D00006682	0.39	43.0	13.9	21	58.1	4.71	6.1	<0.01
D00006683	0.44	40.5	8.5	18	80.4	2.27	4.3	0.03
D00006684	0.39	37.7	14.2	38	24.8	3.68	6.5	<0.01
D00006685	0.56	21.6	6.6	21	20.5	2.10	6.0	0.04
D00006686	0.16	27.9	7.7	31	18.0	2.68	5.5	0.03
D00006687	0.24	75.1	14.1	25	42.0	5.61	6.5	0.03
D00006688	0.25	61.8	8.2	22	36.5	2.17	6.0	0.02
D00006689	0.24	50.6	11.5	23	28.8	3.05	5.3	0.02
D00006690	0.40	40.6	12.1	29	24.2	4.17	8.4	0.02
D00006691	0.28	31.1	11.0	28	24.8	3.09	5.5	<0.01
D00006692	0.63	28.9	12.3	42	48.4	4.04	6.8	<0.01
D00006693	0.37	32.5	14.4	27	27.2	3.26	6.7	0.02
D00006694	0.37	73.0	11.4	33	51.5	3.35	5.6	0.01
D00006695	0.44	65.5	14.2	40	41.3	3.68	6.5	<0.01
D00007475	0.74	66.2	11.0	27	19.0	3.07	5.9	0.06
D00007476	0.38	66.5	12.7	30	16.4	3.60	6.7	0.02
D00007477	0.54	48.1	13.4	20	19.9	3.33	4.6	0.01
D00007478	0.20	50.7	6.6	16	15.7	2.09	4.3	0.01
D00007479	0.28	57.1	14.8	40	11.9	3.71	6.5	<0.01
D00007480	0.36	58.6	14.3	40	13.1	3.53	6.7	<0.01
D00007481	0.43	76.5	12.3	36	18.8	3.14	5.8	0.14
D00007482	0.22	52.7	8.5	20	11.8	2.54	4.2	0.02
D00007483	0.21	78.2	16.7	49	23.8	3.92	7.5	0.02
D00007484	0.25	41.0	7.7	22	11.4	2.20	4.9	<0.01
D00007485	0.20	29.6	12.0	35	24.6	3.42	7.1	<0.01
D00007486	0.44	33.2	9.3	27	28.4	2.75	5.5	<0.01
D00007487	1.17	75.6	20.9	49	66.5	4.66	7.7	0.01
D00007488	0.26	77.1	13.6	34	43.2	3.51	6.9	<0.01
D00007489	0.77	215	11.7	20	58.3	2.70	4.6	0.06

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Element	Cd	Ce	Co	Cr	Cu	Fe	Ga	Hg
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.05	0.1	1	0.5	0.01	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D00007490	0.13	45.4	7.4	24	18.1	2.55	5.3	<0.01
D00007491	0.06	37.0	6.5	30	10.6	2.64	5.2	<0.01
D00007492	0.67	60.1	6.9	18	26.2	2.07	4.1	0.04
D00007493	0.26	56.2	3.7	15	8.0	1.69	4.2	<0.01
D00007494	0.08	67.7	2.3	11	6.1	1.10	2.8	0.04
D00007495	0.17	21.3	0.9	7	3.4	0.48	2.2	0.05
D00007496	0.51	40.2	3.8	11	5.2	1.04	3.1	0.02
D00007497	0.15	45.0	3.8	12	8.5	1.23	3.3	0.01
D00007498	0.17	44.2	4.2	6	14.1	1.46	3.1	0.01
D00007499	0.41	19.4	30.3	61	56.1	4.01	5.7	<0.01
D00007500	0.38	29.7	30.5	69	30.2	4.28	6.7	<0.01
*Rep D00006637	0.06	79.8	2.6	11	3.9	1.11	2.7	0.02
*Rep D00006680	0.16	75.9	11.5	19	70.8	2.96	4.2	0.03
*Rep D00007478	0.21	50.0	7.1	17	16.5	2.14	4.4	0.02
*Rep D00007484	0.24	43.3	7.9	23	11.9	2.32	5.0	<0.01
*Std OREAS920	0.06	68.7	14.3	44	112	3.52	6.3	<0.01
*Std OREAS151B	0.59	15.8	11.2	29	1800	3.30	7.2	0.01
*Std OREAS902	0.03	31.0	965	22	2970	2.98	1.3	0.06
*Std OREAS920	0.05	71.4	14.4	42	108	3.50	6.5	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01
*Blk BLANK	<0.01	<0.05	<0.1	<1	<0.5	<0.01	<0.1	<0.01

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006631	0.63	59.0	0.65	409	1.75	0.01	7.5	1320
D00006632	0.21	71.7	0.21	348	2.48	0.01	7.4	740
D00006633	0.26	60.3	0.39	211	1.28	<0.01	11.4	860
D00006634	0.21	35.3	0.34	3050	3.25	0.01	9.5	1140
D00006635	0.25	41.9	0.32	330	1.39	<0.01	9.3	770
D00006636	0.14	48.3	0.13	248	1.36	0.01	6.8	610
D00006637	0.27	41.3	0.20	75	1.16	0.01	4.4	670
D00006638	0.32	62.2	0.26	1350	1.93	0.01	11.6	1280
D00006639	0.28	22.7	0.12	178	2.51	<0.01	3.8	310
D00006640	<0.01	0.5	<0.01	<2	0.05	0.01	<0.5	<50
D00006641	0.09	20.8	0.02	33	1.00	<0.01	1.8	240
D00006642	0.35	92.2	0.75	858	2.83	0.01	18.3	1130
D00006643	1.04	54.4	1.05	838	1.16	0.01	17.6	1320
D00006644	0.08	13.0	0.05	92	0.30	0.03	1.6	370
D00006645	0.16	86.5	0.23	1000	3.27	0.01	9.5	1890
D00006646	0.19	56.2	0.21	471	2.16	<0.01	5.9	1010
D00006647	0.07	112	0.31	696	2.11	0.02	8.0	1470
D00006648	0.12	38.3	0.72	471	1.99	0.01	16.0	1220
D00006649	0.13	41.0	0.84	1440	2.59	0.01	12.4	970
D00006650	0.17	38.6	1.06	569	4.05	0.01	13.6	950
D00006651	0.06	22.4	1.27	427	0.95	0.01	30.6	1560
D00006652	0.05	27.6	1.32	2320	1.31	<0.01	39.1	1470
D00006653	0.04	21.4	1.29	317	1.34	0.01	29.5	1700
D00006654	0.03	9.1	0.64	225	0.82	0.02	16.3	1070
D00006655	0.06	25.4	1.10	419	1.50	0.01	38.1	1200
D00006656	0.07	19.2	0.91	380	1.02	0.01	28.4	1080
D00006657	0.06	24.1	1.14	539	1.29	0.01	38.4	1270
D00006658	0.06	18.1	1.51	677	1.46	0.01	42.4	1290
D00006659	0.07	28.6	1.30	326	1.33	0.01	31.1	1380
D00006660	0.07	7.7	0.35	151	0.81	0.03	14.7	560
D00006661	0.08	9.5	0.45	202	0.82	0.03	18.8	650
D00006662	0.16	30.2	0.85	369	1.54	0.01	19.8	1090
D00006663	0.13	18.8	0.72	1210	1.61	0.01	23.2	1540
D00006664	0.17	29.9	0.84	426	1.18	0.01	30.1	960
D00006665	0.03	14.6	0.07	27	0.31	<0.01	1.6	910
D00006666	0.10	38.4	0.74	418	0.95	0.01	29.7	970
D00006667	0.11	27.0	0.69	335	0.89	0.01	24.1	750
D00006668	0.15	16.1	0.73	416	1.65	0.01	25.0	710
D00006669	0.10	18.7	0.66	392	1.29	0.01	31.1	870
D00006670	0.11	47.7	0.33	1960	3.80	0.01	14.8	2070

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00006671	0.07	14.8	1.38	475	4.88	<0.01	79.4	1520
D00006672	0.04	29.5	1.68	948	1.58	0.01	88.4	930
D00006673	0.06	15.6	1.05	286	1.20	0.01	22.1	660
D00006674	0.08	23.8	1.12	512	1.17	0.01	38.4	800
D00006675	0.01	3.5	0.05	140	0.13	0.04	7.2	670
D00006676	0.16	31.4	0.90	514	1.79	0.01	19.6	990
D00006677	0.26	22.9	1.01	270	1.61	0.01	21.8	650
D00006678	0.23	18.6	1.07	648	1.80	0.01	26.7	590
D00006679	0.20	18.2	0.88	319	1.59	0.01	23.0	270
D00006680	0.16	42.2	0.45	594	3.11	0.01	10.4	850
D00006681	0.26	46.8	0.77	291	2.44	0.01	15.1	760
D00006682	0.63	25.8	0.90	620	2.08	0.01	17.8	2270
D00006683	0.18	24.2	0.35	637	3.19	0.02	11.8	1200
D00006684	0.18	20.2	0.90	358	3.13	0.01	26.9	1350
D00006685	0.22	9.7	0.46	224	2.37	<0.01	11.4	450
D00006686	0.13	12.8	0.53	295	1.75	<0.01	14.6	710
D00006687	0.53	45.6	0.97	702	4.67	<0.01	12.1	1060
D00006688	0.39	35.5	0.80	204	2.62	0.03	9.8	970
D00006689	0.31	28.4	0.80	564	2.82	<0.01	13.0	1090
D00006690	0.71	15.7	1.14	493	2.54	<0.01	15.3	1110
D00006691	0.24	14.4	0.74	310	2.60	<0.01	21.4	820
D00006692	0.17	14.3	1.11	400	6.35	<0.01	37.6	1850
D00006693	0.28	14.3	0.77	604	3.32	<0.01	19.9	730
D00006694	0.23	43.0	0.99	353	3.49	<0.01	33.9	1590
D00006695	0.30	38.3	1.21	507	3.71	<0.01	34.4	1590
D00007475	0.70	37.2	0.83	545	1.21	0.01	13.2	1120
D00007476	0.75	38.1	0.98	506	1.50	0.01	16.0	1080
D00007477	0.44	25.5	0.70	873	1.62	0.01	14.8	1130
D00007478	0.26	31.7	0.45	315	1.23	0.02	9.3	810
D00007479	0.81	31.3	1.05	430	1.12	0.01	15.5	970
D00007480	0.78	32.4	1.03	369	1.14	0.01	15.2	940
D00007481	0.56	42.0	0.73	608	1.42	<0.01	14.2	1350
D00007482	0.38	24.3	0.49	311	1.32	0.02	10.9	480
D00007483	0.67	52.0	1.19	719	1.31	0.01	22.4	800
D00007484	0.34	20.0	0.64	293	1.22	<0.01	9.5	690
D00007485	0.53	15.7	1.30	378	1.30	<0.01	15.0	1200
D00007486	0.17	19.2	0.78	548	1.71	0.01	16.0	1250
D00007487	0.40	46.0	1.63	778	2.08	<0.01	41.8	740
D00007488	0.32	42.1	1.04	388	1.23	0.01	20.4	940
D00007489	0.14	118	0.27	1810	4.30	0.01	14.5	2420

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Element	K	La	Mg	Mn	Mo	Na	Ni	P
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.01	0.1	0.01	2	0.05	0.01	0.5	50
Units	%	ppm	%	ppm	ppm	%	ppm	ppm
D00007490	0.19	24.7	0.76	284	1.40	<0.01	13.1	800
D00007491	0.09	21.2	0.90	196	1.33	0.05	16.1	560
D00007492	0.34	114	0.63	284	1.03	<0.01	11.0	1090
D00007493	0.13	39.2	0.30	403	1.41	0.01	5.1	870
D00007494	0.09	51.7	0.10	368	1.43	0.02	3.2	1630
D00007495	0.08	10.6	0.02	77	0.69	0.01	2.0	1160
D00007496	0.28	20.5	0.19	266	0.79	0.01	5.1	400
D00007497	0.23	21.8	0.13	162	1.16	<0.01	7.0	510
D00007498	0.11	22.2	0.02	129	2.07	<0.01	14.1	660
D00007499	0.53	10.3	2.44	844	0.69	0.01	66.7	740
D00007500	0.39	14.5	2.52	858	0.74	<0.01	80.9	840
*Rep D00006637	0.27	41.6	0.21	79	1.15	<0.01	4.5	700
*Rep D00006680	0.16	40.7	0.45	595	3.00	0.01	10.4	860
*Rep D00007478	0.27	31.2	0.48	331	1.21	0.02	9.4	850
*Rep D00007484	0.36	21.4	0.65	299	1.35	<0.01	10.2	710
*Std OREAS920	0.40	34.6	1.09	500	0.40	0.03	38.8	720
*Std OREAS151B	0.40	7.2	1.41	275	56.9	0.16	15.2	540
*Std OREAS902	0.24	14.5	2.19	451	12.0	0.01	166	670
*Std OREAS920	0.46	35.7	1.12	514	0.39	0.03	36.3	710
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50
*Blk BLANK	<0.01	<0.1	<0.01	<2	<0.05	<0.01	<0.5	<50

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006631	14.1	61.9	0.17	4.2	0.3	13.4	14.2	0.16
D00006632	19.4	24.1	0.25	1.5	<0.3	6.6	13.5	0.04
D00006633	13.7	25.3	0.32	2.1	<0.3	9.8	13.0	0.07
D00006634	29.2	20.3	0.35	1.5	<0.3	10.2	1.9	0.05
D00006635	17.3	22.5	0.36	1.9	0.3	8.2	9.0	0.08
D00006636	10.7	16.3	0.22	0.6	<0.3	7.1	1.1	0.02
D00006637	9.4	28.4	0.13	1.7	<0.3	6.2	8.1	0.06
D00006638	14.0	35.9	0.23	3.2	<0.3	11.3	7.6	0.06
D00006639	3.7	19.4	0.12	1.4	<0.3	2.5	2.9	0.06
D00006640	0.4	<0.2	<0.05	0.1	<0.3	0.6	0.4	<0.01
D00006641	2.5	8.3	0.10	0.5	0.4	1.9	2.3	0.01
D00006642	19.2	30.6	0.33	3.4	0.4	13.7	4.3	0.09
D00006643	13.5	75.0	0.17	5.3	0.5	15.0	15.9	0.26
D00006644	3.3	7.4	0.07	0.5	<0.3	3.4	0.7	0.02
D00006645	18.2	28.7	0.30	0.9	0.4	13.0	0.8	0.02
D00006646	13.8	25.0	0.29	0.6	0.3	7.9	0.5	0.04
D00006647	16.3	14.8	0.16	0.8	<0.3	11.3	0.5	0.04
D00006648	14.1	12.7	0.18	2.2	0.6	15.8	0.8	0.12
D00006649	22.9	14.4	0.15	2.7	0.4	10.2	3.5	0.09
D00006650	188	20.5	0.20	2.9	0.4	11.1	5.6	0.07
D00006651	21.3	8.8	0.25	6.7	<0.3	23.8	5.9	0.05
D00006652	33.9	7.5	0.25	6.7	<0.3	23.9	5.4	0.04
D00006653	24.4	7.0	0.25	5.4	<0.3	27.9	3.8	0.03
D00006654	10.4	4.0	0.16	2.6	<0.3	17.3	1.2	0.03
D00006655	22.4	8.9	0.42	5.4	0.3	20.7	4.5	0.05
D00006656	16.2	8.4	0.19	4.8	<0.3	27.7	4.2	0.04
D00006657	20.2	9.0	0.27	5.8	<0.3	29.4	4.0	0.06
D00006658	16.6	9.2	0.33	7.4	0.4	20.6	5.9	0.10
D00006659	15.7	10.3	0.28	6.7	0.3	26.4	4.4	0.06
D00006660	8.7	9.6	0.27	1.3	<0.3	7.4	0.4	0.03
D00006661	9.6	11.2	0.29	1.7	<0.3	9.3	0.4	0.04
D00006662	26.5	23.2	0.20	3.1	0.3	10.8	4.0	0.07
D00006663	40.1	16.5	0.29	3.7	0.3	9.9	5.7	0.09
D00006664	23.7	20.6	0.30	4.1	0.4	10.2	8.2	0.11
D00006665	13.6	4.0	0.09	0.7	0.4	16.0	0.6	0.01
D00006666	15.5	12.6	0.43	4.2	0.3	14.0	9.0	0.07
D00006667	20.1	16.3	0.31	3.7	0.5	10.9	8.2	0.09
D00006668	20.5	23.3	0.47	3.5	0.5	9.4	6.0	0.10
D00006669	15.2	13.7	0.53	3.0	0.3	14.0	4.0	0.05
D00006670	17.9	16.1	0.16	1.9	<0.3	28.7	4.6	0.03

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Element	Pb	Rb	Sb	Sc	Sn	Sr	Th	Ti
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00006671	27.8	12.6	1.21	4.5	<0.3	4.5	6.9	0.06
D00006672	20.8	5.5	0.32	5.6	<0.3	37.8	2.0	0.04
D00006673	27.1	10.5	0.22	4.4	0.4	15.5	5.5	0.05
D00006674	30.3	10.5	0.39	5.1	0.5	15.4	7.1	0.07
D00006675	2.4	0.5	0.10	0.5	<0.3	26.1	0.5	0.02
D00006676	18.8	20.6	0.15	3.3	0.3	12.5	5.0	0.11
D00006677	28.0	32.5	0.24	3.9	0.3	10.4	10.8	0.14
D00006678	28.4	30.3	0.25	3.6	0.3	11.6	9.9	0.15
D00006679	17.2	25.2	0.24	2.8	<0.3	8.7	11.0	0.10
D00006680	18.3	22.9	0.18	2.1	0.3	16.7	4.6	0.06
D00006681	20.7	37.2	0.20	4.1	0.5	13.5	11.4	0.11
D00006682	32.0	71.4	0.16	6.6	0.5	61.6	11.0	0.21
D00006683	21.5	24.6	0.17	1.7	0.4	36.1	2.8	0.05
D00006684	18.9	29.0	0.17	3.8	0.5	17.5	5.1	0.09
D00006685	12.9	64.1	0.16	1.8	0.6	5.0	2.5	0.10
D00006686	15.5	17.3	0.13	1.5	0.6	8.0	1.1	0.06
D00006687	46.3	61.3	0.12	4.7	1.2	14.6	14.0	0.20
D00006688	46.2	49.2	0.11	4.1	12.9	17.7	10.9	0.16
D00006689	40.4	38.0	0.10	3.6	0.8	16.5	8.2	0.14
D00006690	26.8	68.9	0.21	4.0	0.7	10.2	7.1	0.21
D00006691	27.5	30.6	0.14	3.0	0.5	9.6	6.2	0.08
D00006692	23.2	13.3	0.16	3.4	0.4	13.5	3.5	0.10
D00006693	23.9	33.7	0.17	2.9	1.0	8.2	2.3	0.10
D00006694	48.1	24.8	0.21	3.2	0.4	14.4	11.4	0.08
D00006695	31.2	30.3	0.21	4.4	0.5	14.3	9.2	0.11
D00007475	15.8	56.3	0.17	3.9	0.4	48.4	6.3	0.15
D00007476	19.6	66.6	0.14	4.4	0.4	23.0	8.0	0.17
D00007477	26.3	51.6	0.16	4.2	<0.3	28.5	6.1	0.13
D00007478	15.4	26.0	0.12	2.1	<0.3	19.1	3.1	0.08
D00007479	19.3	67.5	0.13	5.7	0.4	23.5	8.3	0.21
D00007480	19.8	66.2	0.13	5.5	0.4	23.2	8.3	0.20
D00007481	21.5	50.1	0.19	3.7	0.3	26.9	4.0	0.12
D00007482	17.0	35.1	0.22	2.5	12.1	9.6	7.5	0.11
D00007483	23.6	60.2	0.18	6.2	0.4	23.4	8.2	0.18
D00007484	22.7	31.7	0.19	2.7	0.4	12.9	9.2	0.11
D00007485	22.6	38.7	0.18	4.0	0.4	15.9	7.0	0.19
D00007486	24.3	20.6	0.16	1.5	0.4	23.4	1.1	0.06
D00007487	38.9	38.6	0.22	4.7	0.4	19.0	10.9	0.12
D00007488	35.6	32.7	0.16	4.2	0.4	11.2	4.6	0.12
D00007489	57.8	19.6	0.25	1.0	0.3	21.5	1.0	0.02

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Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.2	0.2	0.05	0.1	0.3	0.5	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
D00007490	16.9	25.2	0.14	2.1	0.5	9.8	2.5	0.08
D00007491	15.2	13.0	0.15	1.6	16.9	7.0	1.3	0.05
D00007492	15.9	26.6	0.17	2.5	<0.3	21.0	6.7	0.08
D00007493	12.8	25.0	0.13	0.7	0.3	6.6	0.5	0.04
D00007494	21.2	13.1	0.17	0.4	<0.3	7.7	0.3	<0.01
D00007495	3.7	3.8	0.10	0.2	<0.3	3.2	0.1	<0.01
D00007496	8.3	23.8	0.10	1.1	<0.3	5.6	1.3	0.05
D00007497	9.5	19.8	0.18	0.5	<0.3	5.1	0.3	0.03
D00007498	5.1	8.7	0.22	0.5	0.4	4.9	0.4	<0.01
D00007499	5.2	31.2	0.15	2.1	<0.3	13.3	1.7	0.12
D00007500	13.0	36.2	0.15	3.5	<0.3	11.9	3.9	0.12
*Rep D00006637	10.0	28.1	0.13	1.7	<0.3	6.3	8.0	0.06
*Rep D00006680	18.2	22.7	0.18	2.3	0.3	17.4	4.7	0.06
*Rep D00007478	15.4	26.5	0.13	2.2	<0.3	19.0	3.1	0.08
*Rep D00007484	23.2	32.8	0.17	2.8	0.4	13.0	9.7	0.11
*Std OREAS920	19.6	23.9	0.65	2.9	1.0	16.2	15.5	0.13
*Std OREAS151B	40.2	19.2	0.53	9.6	1.0	36.4	2.4	0.08
*Std OREAS902	10.5	8.8	0.85	2.8	<0.3	20.7	5.2	<0.01
*Std OREAS920	20.6	24.6	0.55	2.9	1.0	16.8	16.3	0.13
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01
*Blk BLANK	<0.2	<0.2	<0.05	<0.1	<0.3	<0.5	<0.1	<0.01

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006631	0.43	2.56	50	<0.1	16.9	71
D00006632	0.20	1.62	13	<0.1	13.6	66
D00006633	0.22	1.39	22	0.1	15.1	108
D00006634	0.35	2.48	27	0.1	10.9	109
D00006635	0.18	2.11	26	0.1	14.5	137
D00006636	0.13	1.71	14	0.1	13.3	51
D00006637	0.20	0.91	17	<0.1	8.59	27
D00006638	0.25	1.88	25	0.1	17.4	48
D00006639	0.13	0.51	26	<0.1	3.90	30
D00006640	<0.02	0.08	<1	<0.1	0.65	<1
D00006641	0.08	0.52	8	0.1	3.42	12
D00006642	0.22	2.41	71	0.2	18.4	82
D00006643	0.55	1.30	70	0.1	13.7	98
D00006644	0.05	0.35	10	<0.1	2.69	15
D00006645	0.24	2.92	27	0.2	17.4	65
D00006646	0.18	1.95	19	0.1	16.4	52
D00006647	0.14	3.84	41	0.2	40.1	67
D00006648	0.11	3.97	81	0.2	19.8	136
D00006649	0.17	2.32	52	0.1	9.47	208
D00006650	0.19	2.47	33	0.2	17.4	426
D00006651	0.08	0.77	69	0.2	11.0	118
D00006652	0.07	0.86	69	0.1	14.0	131
D00006653	0.07	1.01	64	0.1	9.26	124
D00006654	0.04	0.42	37	<0.1	3.95	64
D00006655	0.10	0.92	55	0.2	12.5	131
D00006656	0.10	0.74	47	<0.1	8.38	80
D00006657	0.08	1.81	66	0.1	11.9	157
D00006658	0.14	0.74	86	0.2	7.57	119
D00006659	0.11	1.13	70	0.2	10.0	124
D00006660	0.09	0.50	26	0.1	3.15	50
D00006661	0.10	0.53	32	0.2	3.96	65
D00006662	0.19	1.73	44	0.1	9.27	206
D00006663	0.13	0.80	56	0.2	7.13	120
D00006664	0.19	1.06	45	0.2	11.4	134
D00006665	0.11	0.87	16	0.1	2.85	12
D00006666	0.14	1.00	37	0.2	13.6	85
D00006667	0.17	1.35	41	0.5	9.66	77
D00006668	0.17	0.78	54	0.3	5.16	99
D00006669	0.12	0.69	41	0.8	6.44	99
D00006670	0.13	9.38	31	0.1	27.8	329

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00006671	0.09	1.36	85	0.2	8.27	193
D00006672	0.05	0.92	75	<0.1	12.9	116
D00006673	0.09	0.82	58	0.2	5.55	108
D00006674	0.13	0.84	57	0.2	8.58	174
D00006675	0.04	0.49	10	<0.1	1.65	12
D00006676	0.17	1.98	45	0.2	12.1	182
D00006677	0.29	2.05	44	0.2	7.89	175
D00006678	0.27	1.65	46	0.2	6.76	223
D00006679	0.23	2.26	31	0.2	7.54	204
D00006680	0.20	9.62	26	0.2	16.5	84
D00006681	0.30	7.25	41	0.1	18.4	113
D00006682	0.59	3.15	56	0.1	23.4	149
D00006683	0.19	4.35	35	0.1	9.81	100
D00006684	0.29	1.65	65	0.2	9.46	246
D00006685	0.19	1.23	48	0.1	4.37	86
D00006686	0.20	1.54	56	0.2	6.96	90
D00006687	0.43	3.51	59	0.2	12.7	161
D00006688	0.40	3.23	41	<0.1	10.8	160
D00006689	0.31	1.87	47	<0.1	10.1	164
D00006690	0.43	1.82	86	0.2	10.1	139
D00006691	0.23	1.59	54	0.1	7.90	161
D00006692	0.16	2.11	124	0.2	10.9	416
D00006693	0.21	1.95	78	0.2	6.96	139
D00006694	0.23	2.95	54	0.2	14.5	276
D00006695	0.28	2.52	88	0.2	14.4	376
D00007475	0.38	2.31	54	0.3	15.7	106
D00007476	0.43	2.18	62	0.1	15.0	106
D00007477	0.43	3.51	51	<0.1	17.2	88
D00007478	0.20	1.89	34	<0.1	12.1	69
D00007479	0.51	1.99	68	0.1	11.8	104
D00007480	0.49	2.23	65	0.1	12.6	104
D00007481	0.35	3.26	52	0.1	16.9	93
D00007482	0.27	1.16	34	0.1	6.58	99
D00007483	0.48	2.70	72	0.1	19.9	116
D00007484	0.26	1.06	39	0.2	6.54	102
D00007485	0.29	0.83	71	0.2	6.48	162
D00007486	0.15	1.29	42	0.2	7.34	148
D00007487	0.32	2.14	64	0.1	16.5	382
D00007488	0.30	1.79	66	<0.1	15.4	196
D00007489	0.23	7.07	34	0.1	29.9	70

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Element	Tl	U	V	W	Y	Zn
Method	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B	GE_IMS14B
Det.Lim.	0.02	0.05	1	0.1	0.05	1
Units	ppm	ppm	ppm	ppm	ppm	ppm
D00007490	0.23	1.18	41	<0.1	7.30	117
D00007491	0.11	0.88	33	<0.1	5.99	129
D00007492	0.20	8.92	27	<0.1	57.8	191
D00007493	0.16	1.77	30	<0.1	10.3	76
D00007494	0.13	2.92	16	0.1	13.9	18
D00007495	0.05	0.37	8	<0.1	1.59	30
D00007496	0.18	0.55	17	<0.1	3.34	39
D00007497	0.20	0.60	20	0.3	3.87	41
D00007498	0.11	0.84	17	0.2	4.04	73
D00007499	0.35	0.39	37	<0.1	3.96	101
D00007500	0.31	0.57	50	<0.1	5.56	143
*Rep D00006637	0.22	0.75	18	<0.1	7.95	28
*Rep D00006680	0.20	9.44	29	0.2	16.7	85
*Rep D00007478	0.21	1.87	37	0.1	12.1	71
*Rep D00007484	0.25	1.10	40	0.1	6.91	104
*Std OREAS920	0.16	2.12	22	0.6	17.6	106
*Std OREAS151B	0.13	0.60	140	0.6	10.4	234
*Std OREAS902	0.23	2.32	8	2.1	7.11	6
*Std OREAS920	0.17	2.29	24	0.5	18.3	109
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1
*Blk BLANK	<0.02	<0.05	<1	<0.1	<0.05	<1

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Appendix N: Soil Sample QA/QC Report

EQUITY | EXPLORATION CONSULTANTS LTD.

QA/QC REPORT

DATE: 16 February 2018

PROJECT: **Kudz Ze Kayah**

CLIENT: **BMC Minerals No. 1**

PERIOD OF WORK: 28 August - 25 September 2017

SUMMARY

This report summarizes and discusses the results of the field-based quality assurance / quality control (QA/QC) program for the 2017 soil sampling campaign at Kudz Ze Kayah (KZK), and applies to the following work orders:

- VC172741
- VC172742
- VC172743
- VC172752
- VC172754
- VC172755
- VC172756
- VC172758
- VC172759
- VC172760
- VC172761
- VC172765
- VC172766
- VC172767
- VC172768
- VC172769
- VC172782
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- VC172785
- VC172786
- VC172787
- VC172788
- VC172790
- VC172791
- VC172792
- VC172796
- VC172798
- VC172799
- VC172800
- VC172818
- VC173360
- VC173361
- VC173362
- VC173363
- VC173364

During the 2017 assay program there was no instances of significant blank contamination for Ag, Au, Cu, Pb, or Zn. Ninety-five percent of the field duplicates displayed an average of 29% difference for all elements.

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INTRODUCTION

This report discusses the results of the field-based quality assurance / quality control (QA/QC) program for the 2017 soil sampling campaign at the Kudz Ze Kayah (KZK) Project. The QA/QC program includes insertion of blank material into the sample stream to monitor contamination. As well, field duplicate samples were submitted and analysed to test the field reproducibility of soil material. In total, 4.5% of all samples submitted to the lab are for QAQC purposes (44 blank samples and 74 field duplicates).

PROCEDURES

After pH analyses were done, groups of 5-10 soil Kraft bags were placed into a polyethylene bag, taped up and placed with 4-5 other polyethylene bags into a single rice bag for shipment. Each rice bag was sealed with a uniquely numbered security tag and then shipped to Whitehorse, YT, via Ross River-based Tu-Lidlini Petroleum and Whitehorse-based Small's Expediting, and then to SGS Canada in Burnaby, BC, with Canadian Freightways.

The SGS lab in Burnaby, BC, is an ISO 9001:2008 certified laboratory (accredited laboratory No. 744) that also conforms with the requirements of CAN-P-1579, CAN-P-1578 and CAN-P-4E (ISO/IEC 17025-2005). Soil samples were received, logged in, oven dried at 60°C and then sieved at 80 mesh (180µm). Samples were digested in aqua regia and then analysed by ICP-MS for 36 elements (SGS code GE_IMS14B). In addition, gold was analyzed by fire assay fusion of a 30 g aliquot followed by atomic absorption spectroscopy (AAS) analysis (SGS code GE_FAA313).

An additional 92 samples were analyzed by SGS for pH as a check on the onsite pH analyses. The SGS method (GE_ISE15V) also involves measurement on a soil-water paste.

RESULTS

Forty-four blank samples were submitted and assayed. A failure threshold of 10x detection limit (*dl*) returned no failures for the Ag, Au, Cu, Pb or Zn, nor many other elements (Table 1). Exceptions include Ce and Y, which averaged blank/*dl* equal to 21 and 13 respectively, However, the low ratio of standard deviation to mean (1.04 ± 0.14 ppm Ce, 0.66 ± 0.05 ppm Y) suggests that this blank material inherently contains 1.0 ppm Ce and 0.7 ppm Y.

Blank sample D00007260 returned 2.38 ppm Mo against a *dl* of 0.05 ppm, and a blank average of <*dl*. The Ce content is also 40% higher (1.43 ppm) than average. Related soil samples, however, lack Mo enrichment and so no follow-up work was done.

Seventy-four field duplicate samples were submitted and analysed, with 95% of the data showing an average percent difference of 29% for all elements. This lies just inside of the 30% threshold considered "acceptable" (SGS Mineral Services, 2005). For elements of interest, 90% of duplicate As, Au, Bi, Cu, Pb, Sb and Zn pairs returned a mean percentage difference of ≤30%, as well as 89% of Ag pairs and 86% of Hg.

Duplicate pairs for most elements show correlation (ρ) >0.9 for >95% of the population, with several key elements (Ag, As, Hg, Sb) showing ρ>0.9 for a slightly lower proportion of 90-95%. Correlation for gold, on the other hand, is exceptionally low (ρ=0.06) and includes two poorly reproduced assays of 116 ppb and 55 ppb Au, and numerous pairs that assayed at or near detection. This is not altogether unusual, however, and so gold is here used as part of the VMS Suite even though there are solid grounds to ignore this data.

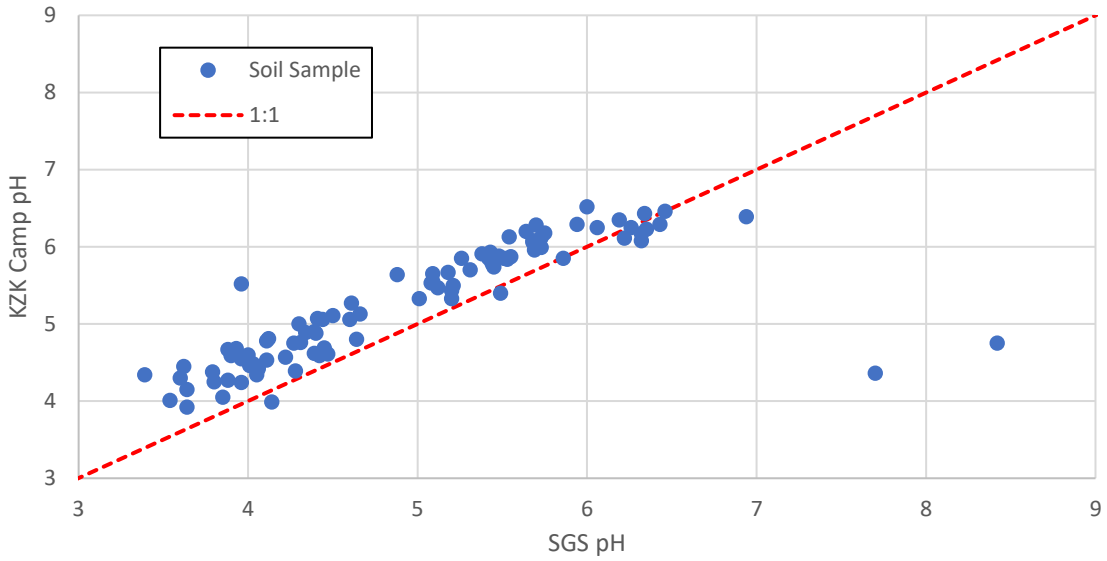

Figure 1: Comparison of pH readings taken at SGS against those taken at KZK Camp

Ninety-two umpire pH measurements done at SGS show ρ = 0.76 with KZK Camp data for 100% of the duplicates, and ρ = 0.92 for 96% of the data. The KZK Camp measurements average pH 0.4 higher than SGS (Figure 1); possibly, this is related to different water volume in the soil paste. The KZK Camp readings are therefore reliable but should be levelled when plotted with other pH data sets.

The pH analysis of 34 “gravel pit” standards, using the PT2, returned an average pH of 6.7 with a standard deviation of 0.4. Analysis of the same material with the Oakton pH meter, on the other hand, returned a mean and standard deviation of 8.3 ± 0.5. This discrepancy was recognized at KZK Camp and so all samples analysed with the Oakton were re-analyzed with the PT2. Analyses of the pH of standard solutions shows that 96% of the data has an accuracy of ±0.2.

Table 1: Detection and mineralized limits for selected precious and base metals and statistics of blank material assays

Statistic	**Ag**	**Au**	**Cu**	**Fe**	**Pb**	**Zn**
Detection limit	0.01 ppm	0.005 ppm	0.50 ppm	0.01 ppm	0.20 ppm	1.00 ppm
Mean (N = 44)	<dl	<dl	0.60 ppm	0.02 ppm	0.44 ppm	1.39 ppm
N.o. samples <*dl*	43	43	5	0	0	7
% of samples <*dl*	97.7%	97.7%	11.4%	0.0%	0.0%	15.9%
N.o. samples >10 x *dl*	0	0	0	0	0	0
% of samples >10 x *dl*	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maximum assay	0.01 ppm	.008 ppm	1.2 ppm	0.03 ppm	0.80 ppm	4 ppm
Maximum assay/*dl*	1.0	1.6	2.4	3.0	4.0	4.0

Appendix O: Discovery Geophysics Work

Report

BMC MINERALS LTD.

KUDZ ZE KAYAH PROJECT

SOUTH CENTRAL YUKON, CANADA

SURFACE AND BOREHOLE TEM SURVEYS

LOGISTICS REPORT

WORK COMPLETED FROM SEPTEMBER 02ND TO SEPTEMBER 31ST, 2017

NTS: 105G/07

DATUM: NAD83 - UTM ZONE 9 N

415250E 6817000N

DIG.CA.BMC.17.01
November 20, 2017

Prepared by: Discovery Int'l Geophysics Inc.
147 Robin Crescent, Saskatoon, SK, S7L 6M3, CA
Tel: +1.306.249.4422; Fax: +1.306.249.4421

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1.0 INTRODUCTION

PROJECT ID	**DIG.CA.BMC.17.01** – Kudz Ze Kayah Project
PROJECT LOCATION	Located on the Northern Pelly Mountains, 135 km south of Ross River in south central Yukon within NTS map sheet 105G07 (**Figure 1**)
SURVEY DESCRIPTION	**Surface & Borehole Transient Electromagnetic (TEM) Survey**
OBJECTIVES	To detect, locate and characterize possible buried conductors associated with potential VMS mineralization.
CLIENT	**BMC Minerals Ltd** 530 – 1130 West Pender St Vancouver, BC V6E 4A4
CLIENT REPRESENTATIVE	**Robin Black** VP Exploration robinb@bmcminerals.com

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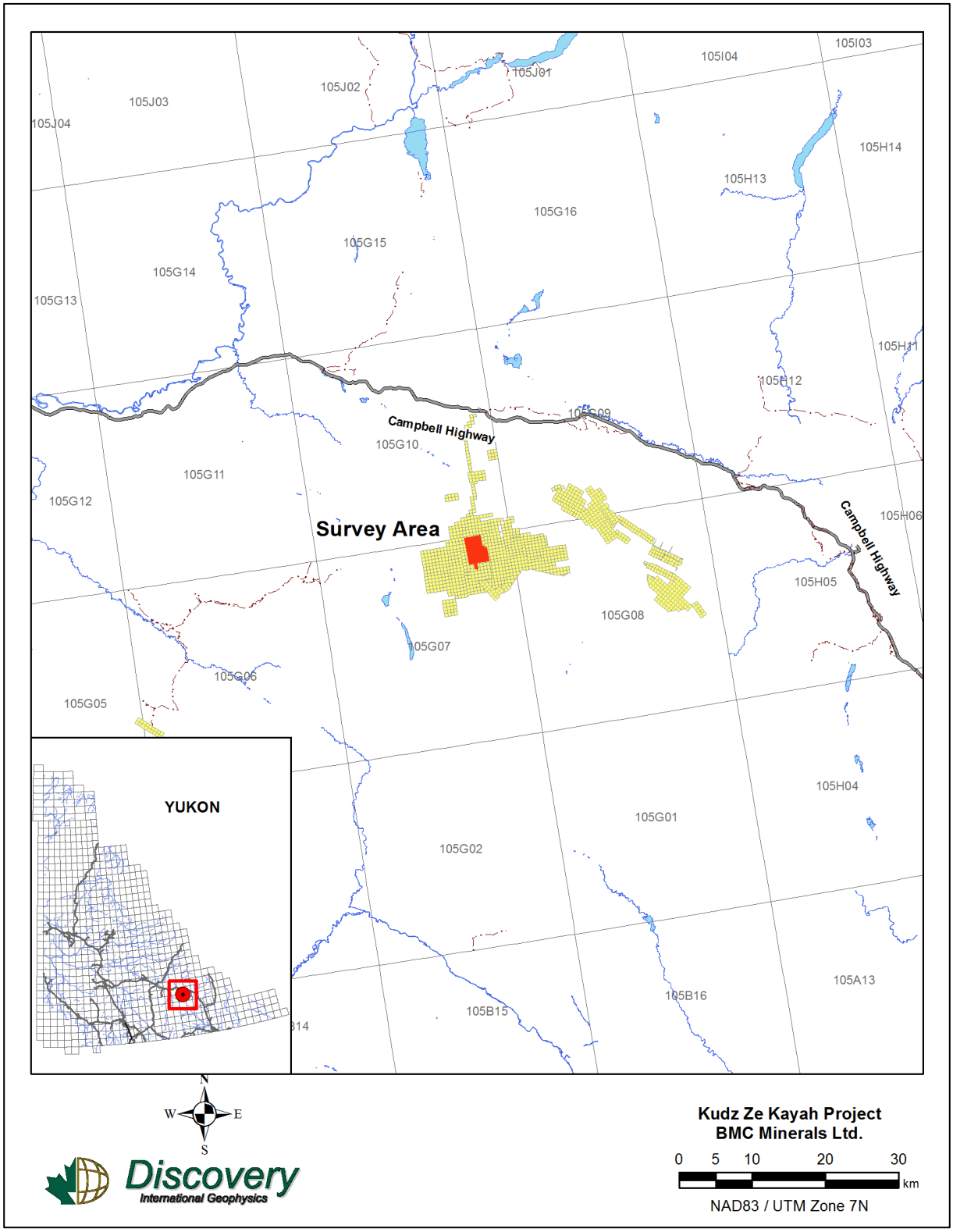

Figure 1: Location Map – Kudz Ze Kayah Project.

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2.0 PROJECT LOCATION, ACCESS AND PHYSIOGRAPHY

LOCATION	South central Yukon, Canada, on NTS map sheet 105G/07; at approximately 61° 28.6' N and 130° 35.46' W (NAD83 UTM Zone 9N: 415250 E and 6817000 N).
ACCESS	The properties are accessible by an existing gated 24 km tote road that extends from the Robert Campbell Highway south to the project site. The project area is well serviced by existing infrastructure that includes highways and airstrips with the towns of Ross River located about 115 kmn from the survey area, Watson Lake (237 km) and Whitehose (517 km).
ACCOMMODATIONS	Accommodations, meals and other amenities were provided by Discovery Int'l Geophysics Inc. at a temporary camp for the entire duration of the survey.
PHYSIOGRAPHY	Yukon is part of the Canadian Cordillera, the system of mountain ranges that run generally in a north-south direction. The complex topography of rugged mountains, plateaus, lowlands and valleys is a result of deposition, volcanic activity, deformation and plate movement a long the western margins of the North American craton extensively modified by glaciation, erosion and weathering. The physiography of the area varies from gentle sloping lowland to ice-covered ranges. Between these two extremes are extensive plateaus, lowlands and numerous mountain ranges. Temperatures of the area are complex showing a range from -62.8° C in winter to a maximum of 36° C in the summer.
COORDINATE SYSTEM	Datum: NAD83, UTM Zone 9N

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3.0 SURFACE TEM SURVEY

SURVEY DESCRIPTION	The **Fixed-Loop TEM surveys** were conducted on the Kudz Ze Kayah (KZK) project. Readings were taken at 100 m intervals along survey lines with 50 m infill readings at operator discretion particularly when approaching to a possible conductor.
MEASUREMENTS	**X**, **Y** and **Z** components of the secondary EM field (B-field) using an EMIT SMART Fluxgate sensor.
PERSONNEL	Connor Harrison (Crew chief/ Senior technician) Lester Ballantyne (Assistant) Doris Palomino (Geophysicist, QC, Processing and reporting)
DATA ACQUISITION	Survey was conducted from September 02nd to September 31st, 2017. All grid lines were completed in their entirety, please refer to the Production Notes on **APPENDIX B** for more details.
SURVEY COVERAGE	Details of the survey coverage and location map can be found in **Table 1** and **2**; and **Figure 2** and **3**, respectively.
TRANSMITTER LOOP SPECIFICATIONS	2000x1500m, single turn loop, 10 AWG wire transmitter loops were employed. See **Table 3** for more details.
POLARITY CONVENTION	**X**: along profile axis, positive north. **Y**: orthogonal to **X** , positive counter clockwise to **X,** **Z**: orthogonal to **X** and **Y** positive upward The direction of current flow in the Tx loop is such that the primary field is oriented upward in the centre of the loop.
EQUIPMENT	Phoenix TXU-30 transmitter EMIT SMARTem24 receiver (3-channel, 29-36 time gates) EMIT SMART Fluxgate Sensor Subaru RVG 13000T 3-phase Generator
SURVEY PARAMETERS	**Repetition Rate (Base Frequency)**: 1.0, 2.5, 5.0 Hz **Transmitter Current**: 20 Amps **Transmitter Turn-Off Time**: 700 µs

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	Transmitter Signal: bipolar square wave, 50% duty cycle **Transmitter Synchronization**: GPS time sync **Integration Time**: 15 seconds (256 stacks), repeat readings. **Number of gates**: 29 time gates (5.0 Hz), ranging from 0.0995 to 42.68 ms after shut-off; 32 time gates (2.5 Hz) ranging from 0.0995 to 81.67 ms after shut-off; and 36 time gates (1.0 Hz) ranging from 0.0995 to 194.0 ms after shut-off. See **APPENDIX A** for more details.
SOFTWARE	**SMARTem24**: Rx data transfer to PC via USB **SMARTem24**: Quality control **EMIT Maxwell**: Data processing and plotting
PROFILE PLOTS	Profile plots can be found in **APPENDIX C** and **D**.

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Table 1: Loop 1 Fixed-Loop TEM Coverage

Line	Tx Loop	Plot Point (From)	Plot Point (To)	Frequency (Hz)	Total (km)
4050E	1	5800	8000	5.0	2.20
4350E	1	5800	8000	5.0	2.20
4650E	1	5900	8000	5.0	2.10
4750E	1	5000	8000	1.0	3.00
4950E	1	5800	8000	5.0	2.20
5250E	1	5800	8000	5.0	2.20
5550E	1	5800	8000	5.0	2.20
5850E	1	5800	8000	5.0	2.20
6150E	1	5800	8000	5.0	2.20
6450E	1	5800	7700	5.0	1.90
				TOTAL	**22.40**

Table 2: Loop 2 Fixed-Loop TEM Coverage

Line	Tx Loop	Plot Point (From)	Plot Point (To)	Frequency (Hz)	Total (km)
4050E	2	7000	9500	2.5	2.50
4350E	2	7000	9500	2.5	2.50
4650E	2	7000	9500	2.5	2.50
4950E	2	7000	9500	2.5	2.50
5250E	2	7000	9500	2.5	2.50
5550E	2	7000	9500	2.5	2.50
5850E	2	7000	9500	2.5	2.50
				TOTAL	**17.50**

Table 3: Fixed-Loop TEM Transmitter Loop Specifications

Tx Loop	Dimensions (m)	Frequency (Hz)	Current (A)	Turn-Off Time (µs)
1	2000 x 1500	5.0	20.0	700
1	2000 x 1500	1.0	20.0	700
2	2000 x 1500	2.5	20.0	700

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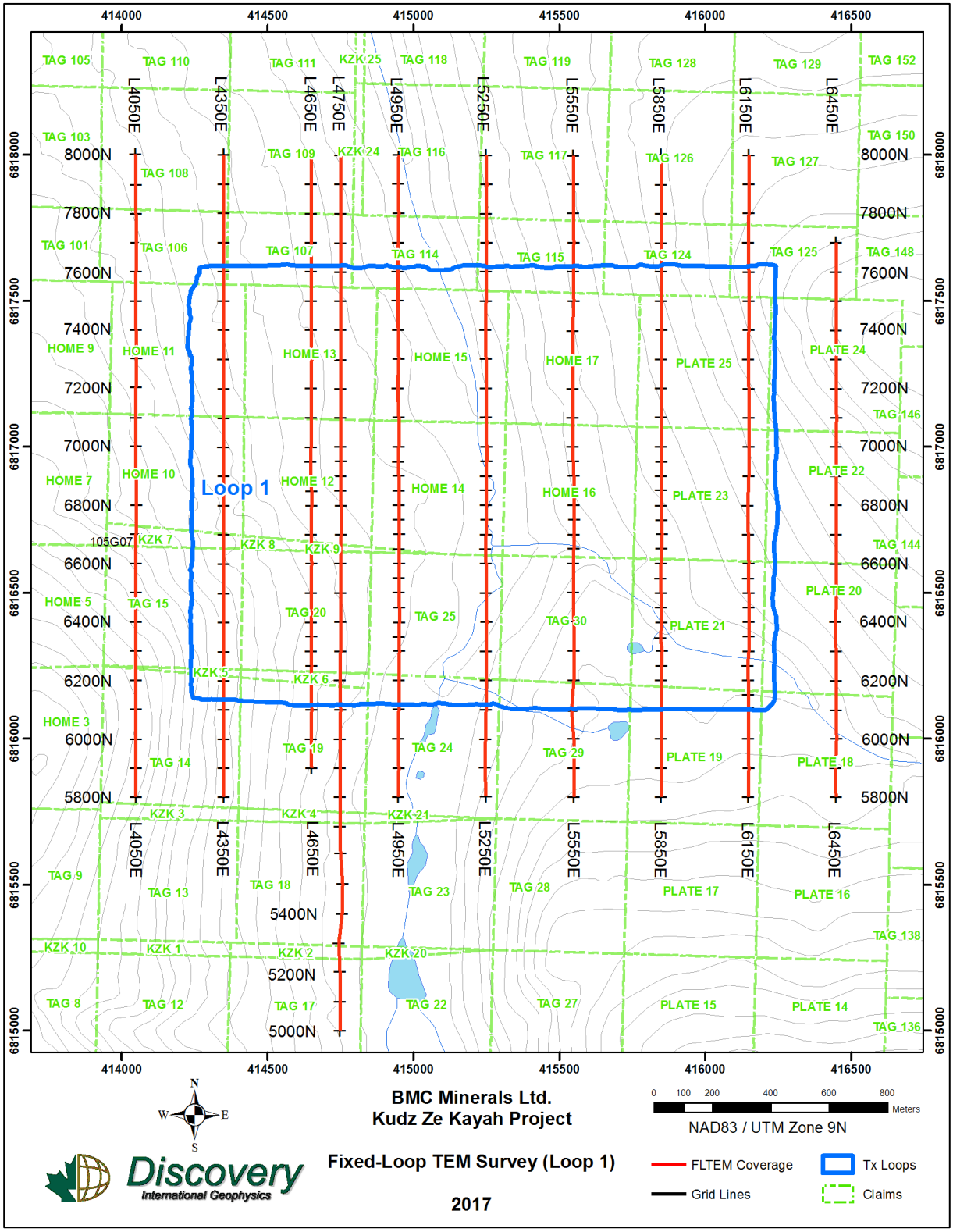

Figure 2: Fixed-Loop TEM Coverage Map – Loop 1.

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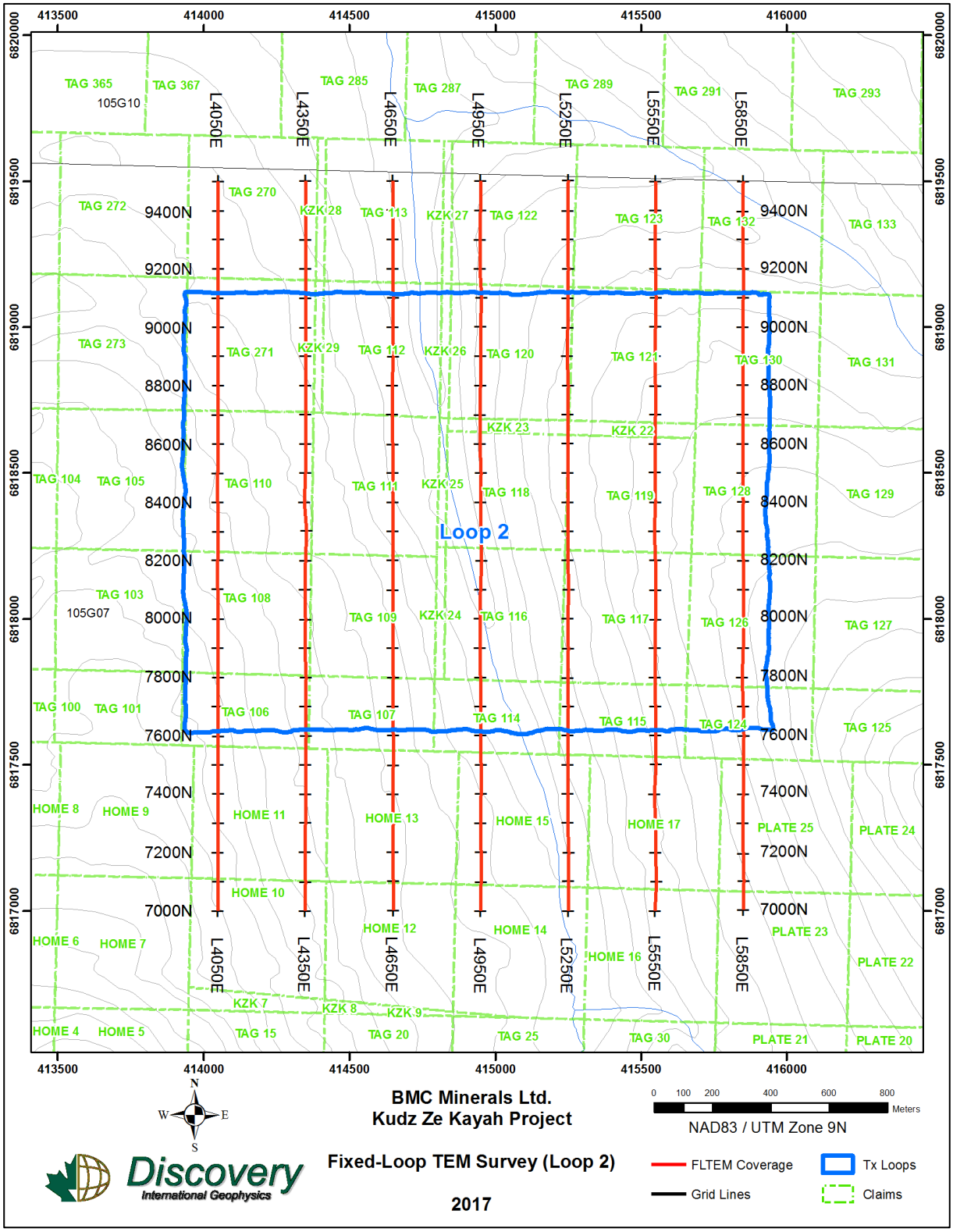

Figure 3: Fixed-Loop TEM Coverage Map – Loop 2.

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4.0 BOREHOLE TEM SURVEY

SURVEY DESCRIPTION	**Borehole TEM Profiling**, data acquisition at 5 to 20 m intervals
MEASUREMENTS	**U**, **V** and **A (X**, **Y** and **Z** in the drill hole orientation) components of the Primary EM field (B).
PERSONNEL	Connor Harrison (Crew chief/Senior Technician) Lester Ballantyne (Survey Assistant) Doris Palomino (Geophysicist, report, QC, processing)
DATA ACQUISITION	Survey was conducted from September 05th to September 31st, 2017. See **APPENDIX B** for more details.
SURVEY COVERAGE	Details of the survey coverage and location map can be found in **Table 4** and **Figure 4**, respectively.
POLARITY CONVENTION	**A**: along drill hole axis, positive upward. **U**: orthogonal to **A** and in azimuthal direction of the drill hole, positive upward. **V**: orthogonal to **A** and **U**, positive counter clockwise to **U**. The direction of current flow in the Tx loop is such that the primary field is oriented upward in the centre of the loop.
LOOP CONFIGURATION & SPECIFICATIONS	Please see **Table 5** and **Figure 4** for more details. Borehole. Distance between Tx loops and boreholes were not constant.
EQUIPMENT	Phoenix TXU-30 transmitter EMIT SMARTem24 receiver (3-CH, 20/25/29 time gates) EMIT DigiAtlantis probe Discovery Winch Frame, Borehole cable reel to 1600 m. Subaru RVG 13000T 3-phase generator Detailed information on the survey equipment used can be found in **APPENDIX A**.

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SURVEY PARAMETERS	**Repetition Rate (Base Frequency)**: 5 Hz **Transmitter Current**: 10.0 to 28.0 Amps. **Transmitter Turn-Off Time**: 700 to 1200 µs **Transmitter Signal**: bipolar wave, 50% duty cycle **Transmitter Synchronization**: crystal clock **Integration Time**: 15 seconds (256 stacks), repeat readings. **Number of gates**: 29 time gates ranging from 0.0995 to 42.683 ms after shut-off. See **APPENDIX A** for more details.
SOFTWARE	**EMIT SMARTem24**: Quality control **EMIT Maxwell**: Data processing, plotting and modelling
PROFILE PLOTS	Profile plots can be found in **APPENDIX E**.

Table 4: Borehole TEM Coverage

Hole ID	UTM (NAD83/ Zone 13N)	Azimuth/Dip/ EOH	Sensor	Data	Tx Loops	Frequency (Hz)	Data Surveyed From – To (m)	Total Surveyed (m)
K17-447	415055E 6816226N Elevation 1380m	Azimuth 180 / Dip -85.0	DigiAtlantis	A,U,V	1	5.0	20 - 445	425
K17-448	415452E 6817253N Elevation 1450m	Azimuth 180 / Dip -85.0	DigiAtlantis	A,U,V	1	5.0	20 - 1000	980
K17-449	414691E 6817002N Elevation 1420m	Azimuth 180 / Dip -85.0	DigiAtlantis	A,U,V	3	5.0	20 - 790	770

Table 5: Borehole TEM Transmitter Loop Specifications

Tx Loop	Dimensions (m)	Current (A)	Turn-Off Time (µs)
1	2000 x 1500	10.0 – 20.0	700 - 1200
3	900 x 900	28.0	700

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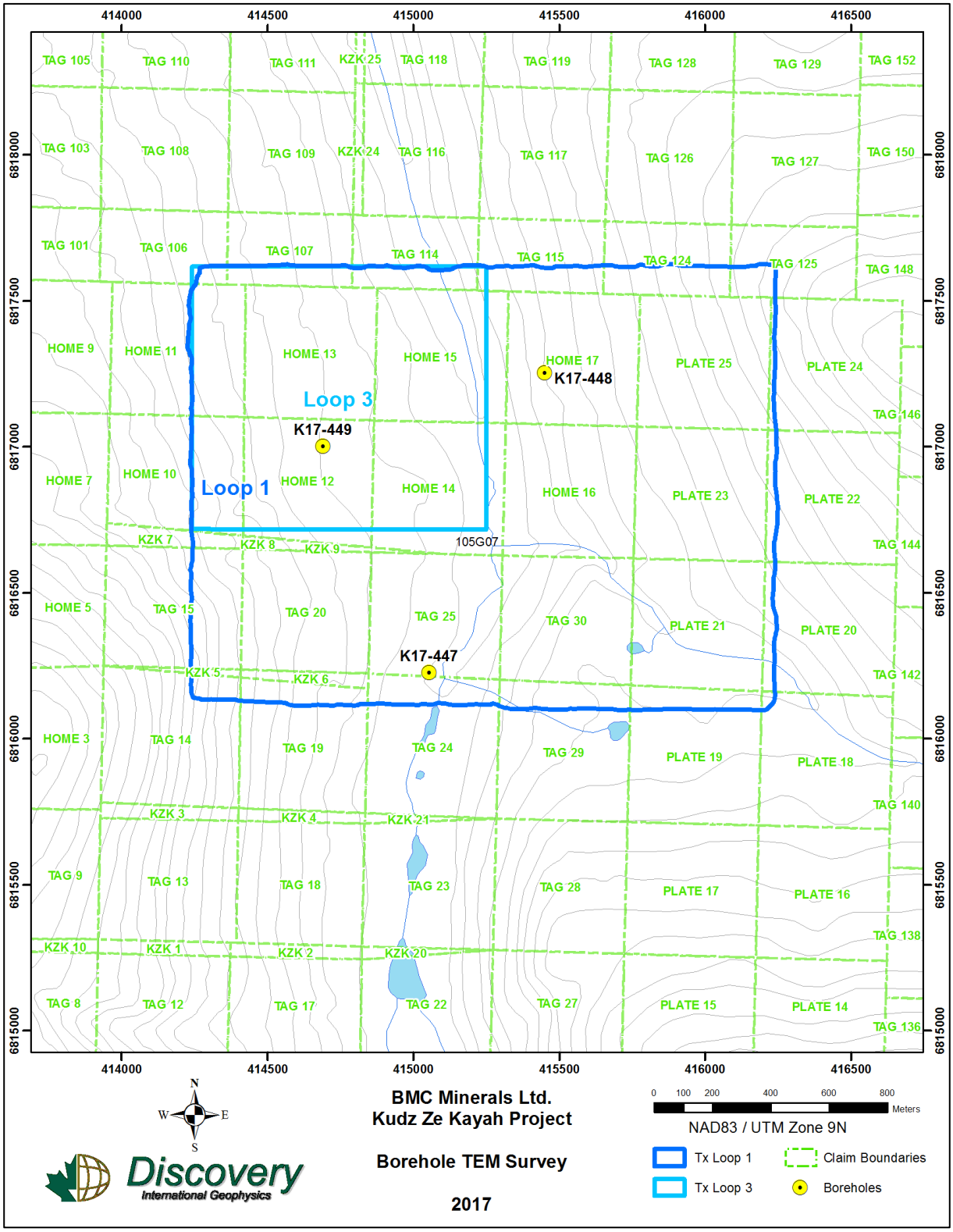

Figure 4: Borehole TEM Survey Map.

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5.0 SURFACE TEM DATA PROCESSING AND PRESENTATION

QA/QC

At the conclusion of each survey day, the TEM data were copied from the SMARTem24 receiver to another computer using a USB memory stick. The full TEM waveform is recorded at a high sample rate for each individual stack, therefore extremely large data files are produced each day. Full waveform recording allows post-survey processing such as stacking and windowing of the secondary TEM data. For example, post-survey processing of full waveform data may include a selective stacking procedure to help eliminate noise, or extracting the secondary response for an entirely different set of gate times than used during the original survey, or to obtain on-time or primary field data. This post-survey processing is carried out using the EMIT SMARTem24 software.

The SMARTem24 software is also used to QC the readings at each station by examining the secondary decay plots for each component. Readings with decays that are not smoothly varying with time (e.g. due to rapid sensor movements and vibrations caused by wind) or lie significantly outside the range of the majority of decays at that station (i.e. outliers caused by rapid geomagnetic variations and pulsations) are deleted from the stack. The final edited data are then written to a final EMIT format TEM data files for each line surveyed.

NORMALIZATION

All EMIT SMART Fluxgate data are automatically collected in pT/A.

PROFILES

The TEM data files are imported into another EMIT program called Maxwell, which is used to plot and model all types of EM data. Maxwell automatically reads header information from the TEM data files upon import, thus reducing human input, time and errors. Profiles for each line are created at an appropriate scale, limited by the page size. Single-page plots were created for each component on each line; consequently, three plots are created per line. Each plot displays the data of 29 (5.0Hz), 32 (2.5 Hz) or 36 (1.0 Hz) gates (SMARTem standard gate times) for each individual component, divided into three early-, mid-, and late-time

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panels, plus a top panel showing the primary field strength. Each panel display either 9 to 10 (5.0 Hz), 7 to 8 (2.5 Hz) or 6 to 10 (1.0 Hz) time-gates as linear amplitude profiles of secondary data plotted in pT/A.

All pertinent survey specifications are also displayed on the profile plots, including window gate times (in ms), transmitter loop size, transmitted current, turn-off ramp time, transmitter-to-receiver offset, etc. for each line. The gate times are referenced from the end of the turn-off ramp to the center of the particular window. The gate times are also listed in the header information of every TEM data file. The profile plots are shown in **Appendix C** and **D**.

DELIVERABLES

The enclosed DVD contains a copy of this report and all the data associated with the surface TEM surveys.

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6.0 BHTEM DATA PROCESSING AND PRESENTATION

ROTATION CORRECTION

DigiAtlantis borehole probes measure all three TEM components – an up-hole axial A component, plus two cross-hole (radial) components U and V. Because the probe can rotate as it descends the hole, the cross-hole measurements must be corrected by resolving them into a purely horizontal V component, plus a forward and upward pointing U component. The required rotation is preferably determined from tilt-meter outputs. These are measurements made from two orthogonal tilt-meters housed within each probe, and aligned to the fluxgate and coil sensors.

If a drill hole is close to vertical, the readings fall below the precision of the tilt meters, and the error in the calculated rotation can be very large. This happens for each probe in holes greater than about 87 degrees. In this case, the direction of the calculated primary field, in all three component directions, are used to determine the rotation correction. At each measured location, the apparent primary field direction is compared to the theoretical direction expected for a given transmitter loop location. The rotation needed to correct the primary is then applied to all secondary gates and the rotated measurements are written to an output file.

A primary field rotation correction requires accurate transmitter loop location, along with accurate probe dip and azimuth data. For a near vertical hole, the rotated U component points in the direction of the hole azimuth. If the hole is perfectly vertical, U is defined as pointing east and V points north. Primary field rotation correction does not work if the transmitter loop is exactly centered on the drill collar of a vertical hole, because there is no radial primary field component. Transmitter loops should always be offset from the collar by at minimum 10 percent of a loop side. A primary field rotation can be distorted if the primary field is significantly affected by 3D anomalies.

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NORMALIZATION

DigiAtlantis measures the primary and secondary measurements of the B-field directly in pT and then normalised by current resulting in units of pT/A.

PROFILES

Data files are imported into EMIT Maxwell which automatically reads header information from the data files upon import, thus reducing human input, time and errors. Profiles for each component (A, U, V) and surveyed loop are prepared at an appropriate scale. Each plot displays the data in 29 (5Hz) separate gates, divided into three early-, mid-, and late-time panels plus a top panel showing the primary field strength. Each panel displays 9 to 10 (5Hz) time gates as linear amplitude profiles of the secondary EM field data plotted in pT/A.

All pertinent survey specifications are also displayed on the profile plots, including window gate times (in ms), transmitter loop size, transmitted current, turn-off ramp time, etc. for each line. The gate times are referenced from the end of the turn-off ramp to the center of the particular window. The gate times are also listed in the header information of every TEM data file. Profile plots are shown in **APPENDIX E**.

DELIVERABLES

All the data associated with the borehole TEM survey are provided in the enclosed DVD.

Respectfully submitted,

Aurora D. Palomino, B.Sc.

Geophysicist

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7.0 REFERENCES

Acton, F. S.: Numerical Methods that (Usually) Work, *The Mathematical Association of America*, 1997.

Duncan A., Amann B., O'Keeffe K., Williams P., Tully T., Wellington A., Turner G.: Examples from a new EM and electrical methods receiver system, *Exploration Geophysics* 29, pp.347–354, 1998.

Gallagher, P.R., Ward, S.H. and Hohmann, G.W.: A model study of a thin plate in free space for the EM37 transient electromagnetic system, Geophysics, vol.50, no.6, pp.1002-1019, 1985.

Lamontagne, Y.L., Lodha, G.S., Macnae, J.C. and West, G.F.: UTEM Wideband Time-Domain EM Project 1976-8, Research in Applied Geophysics #11, Geophysics Laboratory, Department of Physics, University of Toronto, 1980.

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8.0 CERTIFICATE OF QUALIFICATIONS

Aurora D. Palomino

I, Aurora D. Palomino of the municipality of Saskatoon, in the province of Saskatchewan, hereby certify as follows:

- I am a Geophysicist with Discovery Int'l Geophysics Inc. located at 147 Robin Crescent, Saskatoon, SK S7L 6M3.
- I hold the following university degrees: Bachelor of Science, Geophysics, St. Augustine National University, 2000. Second Degree in Computer Sciences, St. Augustine National University, 2002.
- I have either no direct interest in BMC Minerals Ltd. or the above described properties and project that are the subject of this report, or intend to have any direct interest.

Dated at Saskatoon this 20th Day of November, 2017.

Aurora D. Palomino, B.Sc.

Geophysicist

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APPENDICES

APPENDIX A– INSTRUMENT SPECIFICATIONS

EMIT SMART FLUXGATE

SPECIFICATIONS

- Low noise, 3-component fluxgate magnetometer sensor
- On-board accelerometers and temperature sensor
- Automated nulling and recording of the Earth's DC magnetic field
- Calibrated magnetometer and tilt outputs
- Robust housing, portable and lightweight, in-built handle
- Plug-and-play with SMARTem24 receiver
- No batteries required (powered by SMARTem24 Receiver or external battery supply
- Automated simultaneous recording of three components and tilt measurements on the SMARTem24 Receiver.
- Tilt corrections can be applied in SMARTem24 software
- Can be used with other receivers
- Precision bubble level
- Maximum signal level +/- 70,000 nT
- **Sensor noise level**: maximum 6 pT/root Hz @ 1Hz on all components
- **Noise level**: approximately 3 pT on late time window
- Bandwidth DC – 4 kHz

ELECTROMAGMETIC IMAGING TECHNOLOGY (EMIT)

SMARTem24 ADVANCED GEOPHYSICAL RECEIVER SYSTEM

- 24-bit ADCs.
- Up to 16 input channels, each with ADC and amplifier.
- Up to 120,000 samples per second on each channel.
- Light-weight and rugged environmentally sealed operating temperature range -35°C to +50°C.
- +/-20V input range.
- Separate transmitter controller with GPS and crystal synchronization.
- Powerful signal processing.
- Full 24-bit time-series recording and playback.
- Tablet touch-screen and keyboard entry.
- Download data via USB or memory cards.
- Hot-swap internal batteries.
- EM, IP and other survey types.
- Controls a range of transmitters.
- Interface to any sensor, can provide power to sensor if required.
- Powerful GUI to display signals and data.
- Surveys can be planned in the office or in the field.
- Import and display base maps.
- Add notes and comments as you go.
- Monitor survey progress in plan-view.

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- Display scope, decays, spectra, profiles, pseudo-sections and plan.
- Standard ASCII data file formats.
- Transmitter controller has optional recording of current waveform.

SPECIFICATIONS

- **Dimensions**: 310 mm x 290 mm x 120 mm.
- **Weight**: 8 kg.
- **Input channels**: Up to 16.
- **Max input level**: +/- 20 V on gain 1; +/- 2 V on gain 10; +/- 0.2 V on gain 100.
- **Input impedance**: 10 Mohm.
- **Bandwidth**: Up to 60 kHz.
- **Sample rate**: 12.5 – 120 ksps per ADC.
- **Synchronization**: GPS, crystal, asynchronous.
- **Battery**: Dual 14.4 V Li Ion (hot swappable), external 12-28 V.
- **Battery life**: > 10 hrs (constant operation).
- **Operating system**: Windows 7.
- **Display**: 10.4” XGA 1000 nit daylight-readable colour LCD.
- **Interface inputs**: Touch, digitizer and active stylus screen, backlit QWERTY keypad, touchpad.
- **Data storage**: 160 GB HDD (or optional SSD), USB, SD and CF cards.
- **Transmitter control**: As per SMARTem24 Transmitter Controller.
- **Network**: Wireless.

SMARTem24 Software

- One program for data acquisition and post-survey processing / analysis on the instrument itself or on other PCs.
- Display of scope, spectrum analyzer, plan profile, decay and pseudo-sections.
- Preference profiles saved for each user.
- Create custom displays with multiple panels, e.g. plan, profile and decay.
- Extensive on-line help.
- Survey planning utilities and functions.
- Powerful stacking, filtering, windowing and signal processing.
- Library of sensor types and appropriate data units to select.
- Raw, stacked and processed data files generated.
- Software and firmware updates can be easily performed by the user.
- Specialized functions written on request.

SMARTem24 Transmitter Controller (optional)

- **Synchronization**: GPS, crystal.
- **Transmitter Compatibility**: Geonics, Zonge, Phoenix, Crone and others.
- **Duty cycle**: 25%, 50%, 100%.
- **Base frequency**: 50 Hz and 60 Hz selections.
- **Transmitter current recording rate (optional)**: 12.5 – 120 ksps
- **Battery**: Li Ion (or external 12 V power supply)
- **Battery life**: > 12 hrs (constant operation)
- **Dimensions**: 310 mm x 260 mm x 135 mm.
- **Weight**: 5 kg.

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PHOENIX TXU-30 MULTI-FUNCTION GEOPHYSICAL CURRENT SOURCE
The most advanced controlled current source available for electrical methods exploration, the TXU-30 is compact and portable, combining power output (20kW) with great reliability, flexibility, and user-friendly operation. **Simplified MG Requirements**: The new design eliminates dependence on specialized motor generators. Now, you can buy or rent a suitable MG from any convenient local supplier. **Advanced Controls**: Advanced microprocessor control provides superior performance across the board. Large, bright LEDs display instrument status and critical values. Simple, straightforward controls make it easy to adjust all operating parameters within allowable limits. **Climate-Controlled Exploration**: Use the cable-linked remote control panel to operate the TXU-30 from up to 30 m away. Manage your EM transmissions in the comfort of a heated or air-conditioned field truck cab. **High S/N Ratios – Precision Synchronization**: In highly resistive areas in the past, users have relied on dangerously high voltages in an attempt to achieve an adequate signal-to-noise ratio at the receiver. The TXU-30's built-in GPS satellite-synchronized timing control, coupled with companion GPS-synchronized receivers, solves this problem. Because the entire system is synchronized, receivers can maintain proper registration while stacking even extremely week signals. The signals can be stacked as long as necessary until the S/N ratio is acceptable. **Wire or Wireless Data Links**: The TXU-30 continuously saves time series records of its output current and voltage on a removable 512 MB flash memory card. This information, required for deconvolution calculations in Spectral IP, can be transmitted to a companion receiver system over either a wireless or an optional cable link. Alternatively, the data on the flash memory card can be uploaded to the post-processing computer via high-speed, low-cost interface.
SPECIFICATIONS
• **Dimensions & Weight, Transmitter**: 52cm W x 44.5 cm H x 60 cm D; 52.5 kg • **Dimensions & Weight, Controller**: 47cm W x 15 cm H x 36.5 cm D; 6.5 kg • **Environmental**: Operating: -20°C to 45°C; Storage: -35°C to 50°C • **Maximum Power Output**: 20kW at 25°C, sea level • **Duty Cycle**: 100%, 50%, 33%, 25% • **Efficiency**: 90% at full power • **Current Range**: 1-40A, 0.5-20A • **Voltage Range**: 25-1000V • **Input Voltage**: 200-240V at 50/60/400 Hz • **Frequency Range**: 256 s to 9600Hz (Frequency Domain); 128 s to 30 Hz (Time Domain) • **Timing Control**: GPS synchronized +/- 0.5 µs • **User Interface**: Cable-connected control panel • **Fault Protection**: Input voltage out of range; Output voltage out of range; Output current out of range; Power stack temperature high.

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EMIT DIGIATLANTIS BOREHOLE SYSTEM

DIGIATLANTIS PROBE

Sensor	3 orthogonal fluxgate magnetometers (x,y,z)
Depth Rating	3km
Max signal level	+/-70uT
Calibration accuracy	+/-0.1%
Orthogonal accuracy	0.1 degree
Sensor noise level	max. 6_T/√Hz @ 1Hz on all components
Noise level	approx. 3pT on late time window
A/D	24 bit delta-sigma
Available gain settings	1, 10 or 100
Sample rate	12.5 - 25kHz per ADC, simultaneously
Band2idth	0-4kHz
Battery	Li-Ion
Battery life	8hrs, extended with power feeding
Dimensions	2280mm x 33mm (Ø)
Weight	7kg

DIGIATLANTIS RECEIVER

The DigiAtlantis receiver is a Panasonic Toughbook 30:

- Rugged, small (300mm x 285mm x 70mm) and lightweight (3.7kg)
- 13” Touch screen colour LCD (daylight readable, 1024x768)
- Running Microsoft Windows XP
- 80Gb hard disk (upgradable to 160Gb)
- QWERTY keypad, touchpad, USB
- Single Ethernet connection to DigiAtlantis probe controller
- Operating temperatures from -20°C to +65°C
- Powered by Li-Ion battery for 8hrs (or external 12VDC or 240VAC power)

DIGIATLANTIS CONTROLLER

- **Synchronization**: GPS, crystal.
- **Transmitter Compatibility**: Geonics, Zonge, Phoenix, Crone and others.
- **Duty cycle**: 25%, 50%, 100%.
- **Base frequency**: 50 Hz and 60 Hz selections.
- **Transmitter current recording rate (optional)**: 12.5 – 120 ksps
- **Battery**: Li Ion (or external 12 V power supply)
- **Battery life**: > 12 hrs (constant operation)
- **Dimensions**: 310 mm x 260 mm x 135 mm.
- **Weight**: 5 kg.

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Gate	Standard SMARTem Gates			Maximum Frequency
	Start	Centre	End	
1	0.087	0.100	0.112	
2	0.109	0.124	0.140	
3	0.135	0.154	0.173	
4	0.167	0.191	0.215	1000 Hz
5	0.208	0.238	0.267	
6	0.258	0.295	0.332	625 Hz
7	0.320	0.366	0.412	
8	0.398	0.455	0.511	
9	0.494	0.564	0.635	
10	0.613	0.701	0.788	277 Hz
11	0.761	0.870	0.978	
12	0.945	1.080	1.215	
13	1.173	1.340	1.508	150 Hz
14	1.456	1.664	1.872	
15	1.808	2.066	2.324	90 Hz
16	2.244	2.565	2.885	
17	2.786	3.184	3.582	
18	3.459	3.953	4.447	
19	4.294	4.908	5.521	
20	5.331	6.093	6.854	30 Hz
21	6.618	7.564	8.509	
22	8.217	9.391	10.564	
23	10.201	11.658	13.115	15 Hz
24	12.664	14.473	16.282	
25	15.722	17.968	20.214	10 Hz
26	19.519	22.307	25.095	
27	24.232	27.694	31.155	7.5 Hz
28	30.083	34.381	38.678	6 Hz
29	37.348	42.683	48.018	5 Hz
30	46.366	52.99	59.614	3.75 Hz
31	57.562	65.786	74.009	3 Hz
32	71.462	81.671	91.880	2.5 Hz
33	88.719	101.393	114.067	2 Hz
34	110.142	125.876	141.611	1.5 Hz
35	136.738	156.272	175.806	
36	169.757	194.008	218.259	1 Hz
37	210.749	240.856	270.963	0.8333 Hz
38	261.640	299.017	336.394	0.625 Hz
39	324.819	371.222	417.625	0.5 Hz
40	403.255	460.863	518.471	
41	500.631	572.149	643.668	0.3333 Hz
42	621.520	710.309	799.098	
43	771.602	881.831	992.060	0.25 Hz
44	957.924	1094.771	1231.617	0.2083 Hz
45	1189.239	1359.130	1529.021	0.1667 Hz
46	1476.410	1687.326	1898.241	0.125 Hz
47	1832.926	2094.773	2356.619	
48	2275.531	2600.607	2925.682	0.0833 Hz
49	2825.014	3228.588	3632.161	
50	3507.184	4008.210	4509.236	0.04 Hz

Gate	Custom, Protem Gates			Maximum Frequency
	Start	Centre	End	
1	0.080	0.088	0.096	
2	0.099	0.107	0.115	
3	0.115	0.132	0.148	
4	0.145	0.162	0.179	
5	0.179	0.201	0.222	
6	0.222	0.251	0.279	
7	0.279	0.315	0.350	
8	0.350	0.396	0.441	
9	0.441	0.500	0.558	
10	0.558	0.632	0.705	
11	0.705	0.800	0.894	
12	0.894	1.014	1.134	
13	1.134	1.287	1.440	
14	1.440	1.636	1.832	
15	1.832	2.081	2.330	90 Hz
16	2.330	2.648	2.966	
17	2.967	3.373	3.779	
18	3.779	4.297	4.815	
19	4.814	5.475	6.135	
20	6.135	6.978	7.820	30 Hz
21	7.781	8.807	9.834	
22	9.834	11.118	12.402	
23	12.402	14.012	15.621	15 Hz
24	15.621	17.641	19.661	10 Hz
25	19.661	22.200	24.738	
26	24.738	27.930	31.122	7.5 Hz
27	31.122	35.140	39.157	6 Hz
28	39.157	44.217	49.276	5 Hz
29	49.276	55.651	62.025	3.75 Hz
30	62.025	70.058	78.092	3 Hz

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APPENDIX B – PRODUCTION NOTES

BMC Minerals Ltd. – Kudz Ze Kayah Project – Surface and Borehole TEM Survey
September 02nd to September 31st, 2017

Crew: Connor Harrison (Crew Chief/Senior Technician) and Lester Ballantyne

Saturday, 02 September 2017: The crew departed Whitehorse, YT around 10:00am and made it to camp for 5:00pm. They got settled into their tent and made introductions with the client.

Sunday, 03 September 2017: The crew had to wait for the revised loop design this morning so they spent their time sorting through the gear inside the trailer. Once the loops were provided, the crew made their way down the road to begin laying Loop 1. They were able to get the NW corner of the loop laid out along with a 500m section of the south side. They return to camp around 3:00pm and devise a plan of attack to complete the loop tomorrow.

Monday, 04 September 2017: The helicopter was extremely busy this morning and the crew wasn't able to get their first wire drop until 10:30 – 11:00am. They started on the SW corner to complete the loop section on the western side of the road. They then, slung the basket over to the SE corner and pull the rest of the south side into place. The basket and crew were moved back to camp to reload on wire. The basket and crew then made their way out to the NE corner and the crew was able to lay 1Km in each direction before they were picked up around 6:00pm.

Tuesday, 05 September 2017: Slightly less was needed from the helicopter this morning and the crew was bumped out to the basket around 9:30am. They slung the basket ~1.2Km westward from the NE corner and laid ~500m of wire to complete the north side. They then moved to the SE corner and laid the last 500m on the east side to complete the loop. The crew was flown back to camp and they loaded up the truck with the transmitters to go set up down the road. The loop was tested and had continuity of ~23 Ohms so the transmitters were tested and the crew made their way back to camp around 3:00pm. They loaded up the basket with all the BHTEM gear (excluding instrumentation) and slung it out to K17-447 before getting flown out there themselves. They setup over the hole and began the dummy procedure which went all the way to bottom. 1they pulled the dummy out of the hole and packed up for a flight back to camp around 4:30pm before the pilot had to takeoff for an hour.

Wednesday, 06 September 2017: The crew fired up the transmitter first thing this morning with a current of 10A at a base frequency of 1Hz. They then waited for until 9:00am for the helicopter to be available before flying out to K17-447 to begin their survey. They dropped the probe down the hole and hit bottom around 447m. They pulled back up to 445m and took their first readings. The survey was carried out at mainly 20m intervals with some 10m intervals at the bottom of the hole and around 180m. The crew surveyed until 4:00pm when the probe battery died at 40m. They pulled the probe out and loaded everything into the basket to be slung back to camp prior to the crew departure for camp.

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Thursday, 07 September 2017: The crew made their way out to the transmitter to fire it up but the loop had been broken. The crew did some checks along the road to make sure it wasn't obvious before heading back to camp. They grabbed some gear for loop repair and made their way to the helipad. Once the helicopter was available, the crew flew the loop and found a section on the north side that had definitely been crossed by an animal. They landed to check it out but there did appear to be any breaks so they continued to fly the loop. Finally, they found the break and after a 600m walk to access the break, they had it fixed and waited to be picked up again. The crew flew back to camp and ensured everything was ready for the BHTEM higher frequency survey before heading to K17-447 around midday. The probe was dropped to the bottom of the hole and the survey began around 12:40pm. Surveying at 5Hz was much faster and allowed the operator to conduct many more readings per station to combat the movement noise. They finished up the hole around 4:00pm and prepared the BHTEM gear to be slung back to camp. The gear and crew were taken back to camp by 5:00pm.

Friday, 08 September 2017: After receiving a large transmitter (Phoenix TXU-30) the night before, the crew went to swap out the transmitter at Km22 Tx site. This took about 1:30Hrs to ensure that everything was in working order. Around 9:30am, The crew began to make their way west of the Tx site ~250m to their starting station (L4050E7500N) for the Fluxgate FLTEM survey. They surveyed south and completed the first line by 1:00pm. The crew then made their way east 300m to the south end of the next line (L4350E). They began to survey northbound and complete their second line by 4:30pm for a total of 3.4Km survey coverage.

Saturday, 09 September 2017: The crew spent the first hour of the morning conducting some computer work before heading out to the field. Around 9:00am, the crew fired up the transmitter and fuelled up the generator before making their way to the end of the line extension of L4050E. The crew completed the line extensions of L4050E and L4350E before getting started on the new line. They began surveying L4650E around 11:00am and surveyed southbound from station 8000N. Around 2:00pm, The power cut out on the loop and the crew chief had an ~800m walk to check what was wrong. It turned out that there were some input power issue from the generator, but it took several attempts to resolve which slowed the survey significantly. They crew surveyed down to station 5900N by 4:45 before the power kicked out again and they made the call to end the survey day. Upon further investigation, the crew found that the fuel filter on the generator fuel valves was caked with dirt and debris. They clean this out in anticipation that the issues would be resolved for the next survey day. Total survey coverage of 3.1Km, not including overlap stations for the line extensions.

Sunday, 10 September 2017: The crew made their way out to the transmitter around 8:00am, fuelled up the generator and fired up the loop. They then drove down the road to the south end of the lines and walked over to their starting station, L4950E5800N. They began surveying around 8:45 am and began northbound on L4950E. The line was fairly decent for walking and the crew was able to make good time on the survey. They completed the first line shortly before midday and bush-crashed east ~300m to the next line. They surveyed back south on L5250E and completed the line around 4:30pm before making their way back to the truck. The crew drove back to camp, shutting down the transmitter on their way. Total survey coverage of 4.4Km was achieved.

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Monday, 11 September 2017: The crew fired up the transmitter around 8:15am before heading back to camp. They waited for the helicopter to finish sling operations and then got bumped out to their starting station, L5550E5800N. They noticed a moose cow and calf on their flight out but fortunately they did not pass through the loop wire. The crew began the survey northbound and finished the first line by 1:00pm. The bush was extremely thick for the majority of the day and the crew was slowed down significantly. They bush-crashed 300m over to L5850E and began surveying southbound. The crew surveyed down to 6200N before calling the helicopter in for a pick up around 5:00pm.

Tuesday, 12 September 2017: The initial plan for the day was to conduct the BHTEM survey of K17-448 but the crew were quickly re-informed that the drill would keep turning until tomorrow and that they should just continue on with the FLTEM survey of loop 1. They went out to the transmitter to fire up the loop before heading back to camp to catch a ride out to the field. They were dropped off at the north end of L6150E and they began surveying south. They completed the line around 1:00pm and moved over to L5850E5800N to finish off the line from yesterday (up to station 6250N inc. overlap for data merging). L5850E was completed around 2:00pm and the crew was bumped over to the north end of L6450E to begin surveying southbound, down the hill. They completed the survey around and arranged to be picked up around 5:00pm.

Wednesday, 13 September 2017: With the hole still being drilled today, the crew decided to go out and survey L4750E at 1Hz. They made their way out to the transmitter to fire up the loop before walking to their starting station (8000N). They began surveying southbound on the line at a slightly slower pace due to the lower frequency being used. Half way through the day, one crew member walked back to the truck to move it to the end of the line. The crew was able to survey down to 5000N, thus completing the line just before 4:00pm.

Thursday, 14 September 2017: The crew was on standby for the entire day waiting for the completion of K17-448.

Friday, 15 September 2017: The crew made their way out to the drill right after firing up the transmitter around 8:00am. They got themselves set up in the drill shack and began dummy probing hole K17-448 around 9:00am. The dummy was only able to go down to ~680m before it hit some sort of blockage. They crew attempted to pass through several times but could not get the dummy down. They began to bring the dummy back up but the dummy got stuck on the drill bit around 240m. The crew tried to pass through the bit several times and eventually they were able to get up into the rods however the sheer pin must have broken and the dummy was lost down the hole. The crew informed the project geologist of the situation and they were advised to wait at the drill until 11:30am – 12:00pm when the new driller arrived so that they could bring him up to speed. They then returned to camp to get some rest in anticipation for a night shift. The drillers reamed all the way down to bottom and were able to recover the dummy with ease before pulling the roads back up to ~720m. The survey crew went back up to the drill around 7:00pm and waited for the drillers to finish washing the hole. They began to set up the BHTEM system and dropped the probe down around 8:30pm. They started off at station 740m and surveyed down in 20m increments to 1000m.They started to pulled the probe out of the hole and had the BHTEM system out of the drillers way by midnight.

Saturday, 16 September 2017: The crew waited for the drillers to pull up to ~300m which was accomplished by 2:30am. The crew got their BHTEM system set up again and dropped the probe

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down to the starting point at 320m. The surveyed down in 20m intervals to 660m before they hit a blockage at~662m. The decision was made not to bother reaming down again and the crew pulled the probe back up the hole, conducting 10m infill stations from 410m – 370m. They had the BHTEM system out of the way by 6:00am and the drillers began pulling the rest of the rods. The hole was free of rods by 7:30am and the crew set up the BHTEM system again for the final section. They surveyed down from 20m to 300m and completed the hole by 9:30am. The crew pulled the probe and packed all the BHTEM gear into the basket ready for slinging. The crew and gear were back at camp by 10:30am.

Sunday, 17 September 2017: The crew had a quick helicopter safety briefing this morning on the AS350 B3 before flying out to cut the loop 1 wire on the east and south side. They then returned to camp to drive down the road and wrap up what they could (500m east from the road on the south side and 500m south from the Tx on the west side). They then return to camp to load up the basket with the winder and empty spools. The crew and basket were bumped to the SW corner first to wrap wires to the east and north. They then got bumped over to the NE corner to wrap wires from the south and west. Finally, they moved to the SE corner to wrap the remaining wires of loop 1 that would not be used for loop 2. The crew flew back to camp after slinging back the basket and loaded up the truck with a couple kilometers of wire. The drove down the road to the NW corner of loop 2 and laid 500m eastbound before laying other 500m southbound. The crew finished off the day by laying out the western 300m of the south side.

Monday, 18 September 2017: The crew started off their day by loading up the basket with everything needed to lay out 4.0Km of wire. They then went to fly in the helicopter to pick wire drop locations around loop 2 before getting dropped off at the SW corner. Once they had the basket, the crew laid out 1.0Km northbound on the west side before getting bumped over to the SE corner. From there, they laid out another 1.0Km northbound on the east side. They got bumped again to the NE corner where they laid 500m southbound on the east side and then 970m westbound on the north side. They got their final bump to the creek on the north side where the laid out 310m to the west and 230m to the north to complete loop2. The crew returned to camp to go test the loop but is what broken. The flew to find the break which was on the pre-laid south side and they were able to fix the issue with ease. The crew finished off the day by taking the Tx generator back to camp and conducting a full service on the motor.

Tuesday, 19 September 2017: The crew went to fire up their transmitter first thing this morning. They then drove to the starting location for the FLTEM coverage and began setting up the SMARTem24 project for the day. Unfortunately, the license key for the acquisition software had expired and the crew had to return to camp. The crew spent the entire day waiting for a new license key from EMIT (Australia) which didn't arrive until the evening.

Wednesday, 20 September 2017: The crew had to fix a break in their loop first thing this morning. The loop was fairly easy to fix and the crew was able to fire up the transmitter and begin surveying by 9:30am. They started at L4050E9000N at a frequency of 2.5Hz and surveyed southbound. The first line was completed by 12:00pm and the crew bush-crashed over to the next line. They surveyed the second line north bound and completed that survey by 2:30pm. The bush-crashed over to L4650E9000N and began surveying southbound. They were able to survey 600m of L4650E before

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they began walking back up the hill to the truck. They went to shut off the transmitter and returned to camp by 5:00pm.

Thursday, 21 September 2017: The crew woke up this morning to a request for 500m line extensions to the south. They made their way to the transmitter to fire up the loop before continuing to Km22.5 where they parked the truck. They hiked ~400m up the hill to their starting location (L4050E9000N). They surveyed northbound, conducting a two station overlap at 7500N and 7600N for data merging purposes. They then bush-crashed over 300m to L4350E7600N and surveyed south to 7000N. The crew then bush-crashed again to L4650E7000N and began surveying northbound. They completed the remaining stations of L4650E by 2:00pm and began making their way to L4950E8000N (with the intent of surveying 8000N to 9000N) They were able to survey 300m but when they start acquisition on the 5th station, they realized that the loop had been broken. Connor was picked up by the Helicopter around 2:45pm and flown to the East side of the loop where they suspected the break was. The break was found where a moose had walked through, but the wire broke 250m away. That 250m section was rerouted by the moose around multiple trees and therefore had to be pulled straight and relayed correct. The loop was fixed by 4:15pm by which point the crew decided that it was best just to catch a ride back to the truck while the helicopter was already in the air. The crew got back to camp shortly after 4:30pm.

Friday, 22 September 2017: The crew was asked to add another 500m extension to the Loop 2 lines, this time to the north. They drove down to the transmitter to power up and realized that a moose had gone through the transmitter site and taken dragged one of the loop wires out of place. Once they had found the wires and relayed it back to the transmitter, they tested the loops continuity, and it was still broken. They made their way back to camps and went up in the helicopter to find the break. The crew flew the loop twice but were unable to find the break in the wire. They returned to camp and then proceeded to lay wire down the road with the truck to see which side of the road the break was on. They found it was broken on the east side of the road and began walking the loop. The break was found down by the creek on the south side where a moose or caribou had chew through the wire. The loop was repaired and the crew was able to start surveying around 12:00pm. They surveyed the 500m extensions to the north of lines 4050E, 4350E and 4650E before surveying from 9500N to 8500N on L4950E. Total coverage of 2.5Km was achieved in the afternoon.

Saturday, 23 September 2017: The crew went to fire up the transmitter first thing this morning. Once the power was on, the crew returned to camp to catch a flight out to their starting station. They decided to start surveying back from the east and therefore began their day at L5850E9500N. They surveyed the line southbound and finished around 12:30pm. They then bush crashed 300m over to the next line and began surveying L5550E northbound. They were able to finish the second line around 4:30pm before making their way to find a pick-up location. Total coverage of 5.0Km.

Sunday, 24 September 2017: The crew made their way out to the north end of L5250E to begin their day. They surveyed progressed a little than the previous day due to the conductors not being as strong but the crew was still able to move at a decent pace. They finished L5250E around 2:00pm and moved over 300m to the south end of L4950E. They began surveying northbound and completed the line to where they had surveyed before around 4:00pm. Total Coverage of 4.0Km.

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Monday, 25 September 2017: The crew was on standby for the entire day waiting for the completion of K17-449. One crew member stayed busy by wrapping wire and organizing equipment while the other helped out in the core shack.

Tuesday, 26 September 2017: The crew was on standby for the entire day waiting for the completion of K17-449. One crew member stayed busy by wrapping wire and organizing equipment while the other helped out in the core shack.

Wednesday, 27 September 2017: The crew was on standby for the entire day waiting for the completion of K17-449. One crew member stayed busy by wrapping wire and organizing equipment while the other helped out in the core shack.

Thursday, 28 September 2017: The crew chief had some computer work to keep busy with in the morning. After lunch, the crew mobilized to the field to lay out Loop 3 (1000m X 900m). They laid out all but 900m of the loop by 5:00pm before heading back to camp.

Friday, 29 September 2017: The crew laid out the final part of Loop 3 quickly this morning before heading back to camp. They were informed that the hole might be shut down tonight and were advised to get some rest for a night shift. The crew was informed that the drill had shut down around 11:30pm and they planned for a 4:00am departure from camp to the drill.

Saturday, 30 September 2017: The crew woke up at 3:00am and began getting the equipment loaded in the truck. They left camp around 4:00am and went to power on the transmitter loop. The loop was still intact and they continued on to the drill. The BHTEM system was setup and functional by 5:00am and the crew began to survey going down the hole. They surveyed down in 20m increments and reach a TD of ~796m (Last station recorded at 790m). They then pulled the probe out of the hole, conducting a few 10m in fill stations along the way. The probe was out of the hole by 9:30am and they crew loaded up the basket of gear before departing the drill. They returned to camp for a few hours rest prior to lunch. After lunch, they proceeded to wrap up Loop 3 and pack up the transmitter site. They returned to camp around 4:00pm and loaded up the trailer/packed up the gear around camp.

Sunday, 31 September 2017: The crew departed from KZK Camp early in the morning with intentions of driving to Fort Nelson, BC. They expect to be back at the Base of Operations in Saskatoon, SK on Tuesday afternoon.

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APPENDIX C - FIXED-LOOP TEM PROFILES – LOOP 1.

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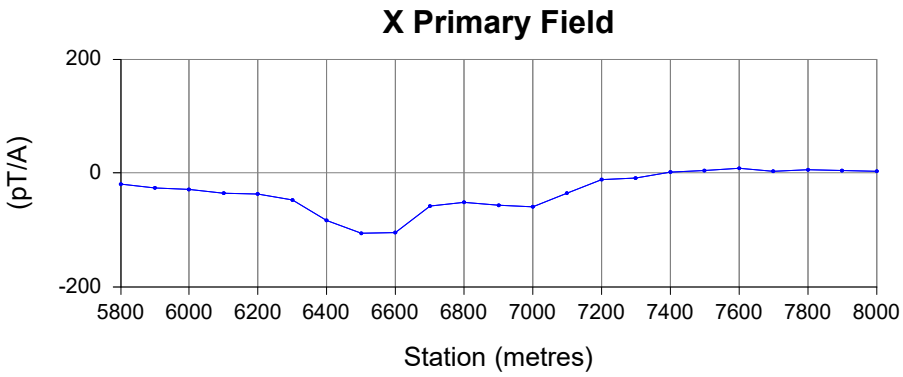
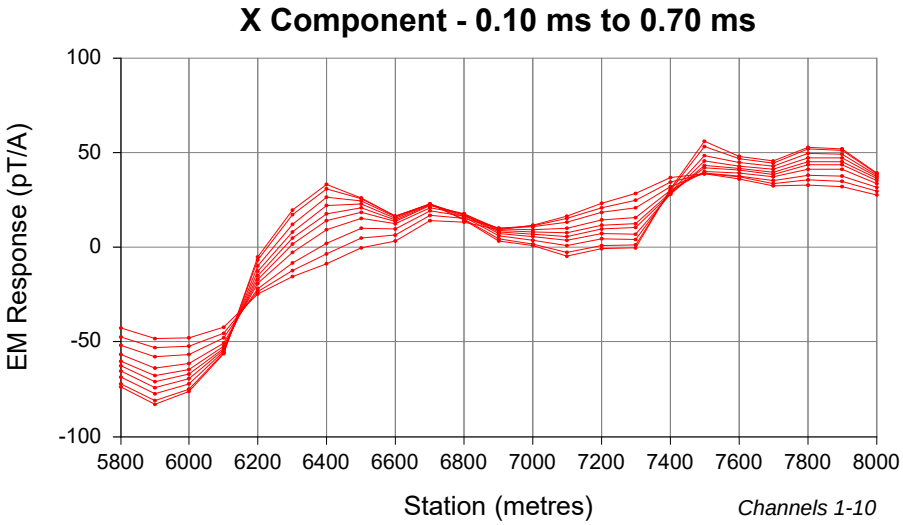
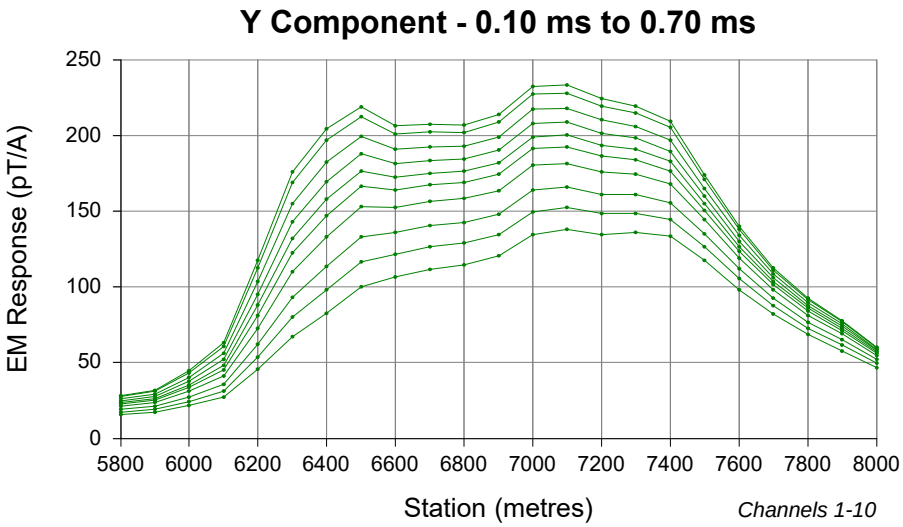
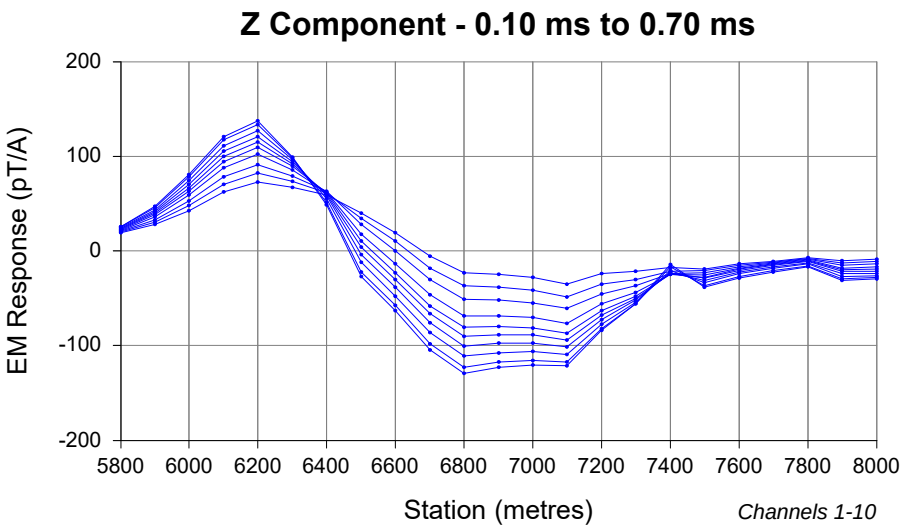








WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
8	: 0.4545	23	: 11.66
9	: 0.5645	24	: 14.47
10	: 0.7005	25	: 17.97
11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

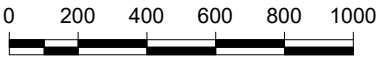
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms

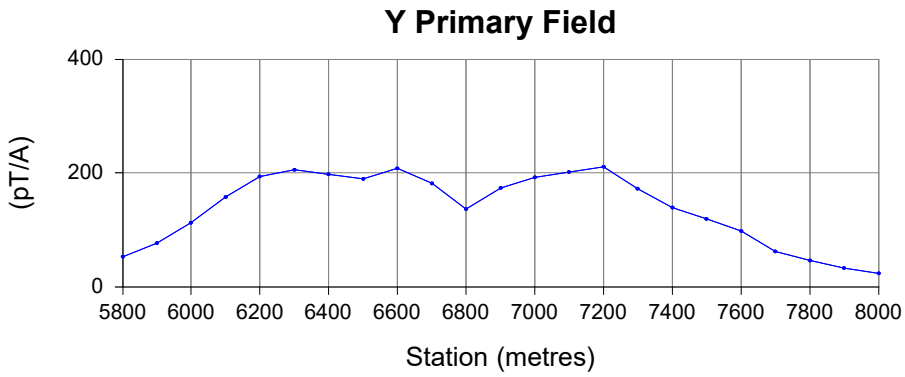


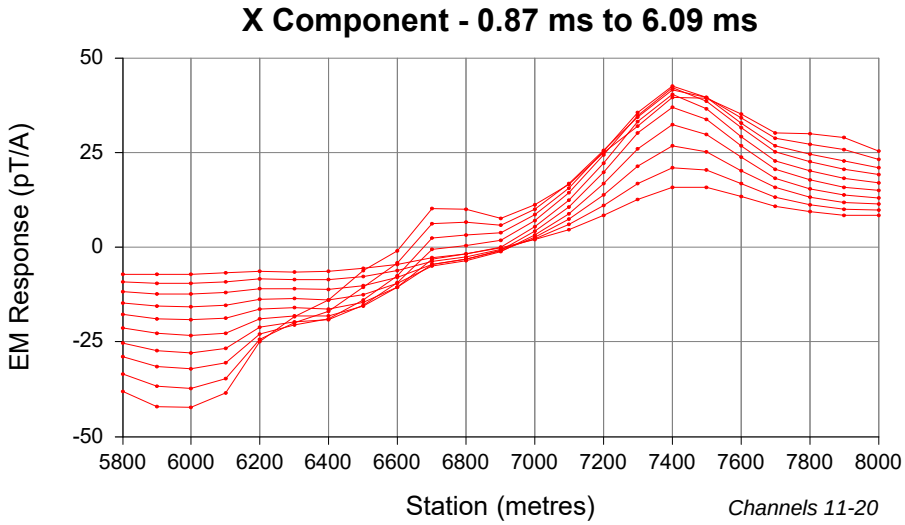
Scale 1:22000

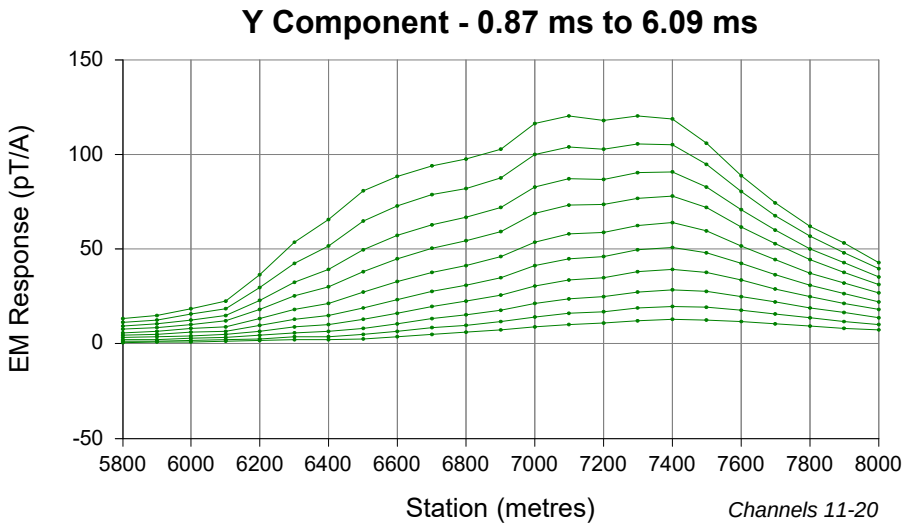
BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4050E - LOOP 1

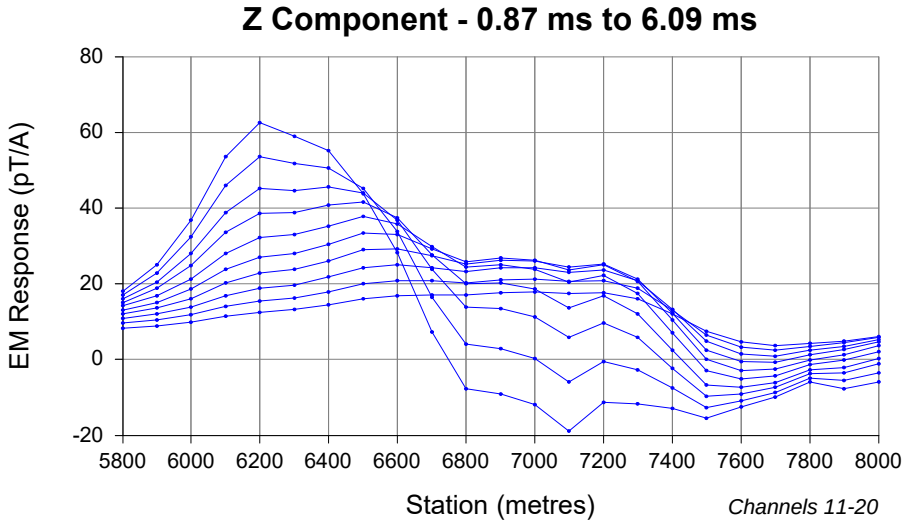
Surveyed By: Connor Harrison
Survey Date: September 2017

Discovery International Geophysics
147 Robin Crescent
Saskatoon, SK, S7L 6M3
www.discogeo.com









WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
8	: 0.4545	23	: 11.66
9	: 0.5645	24	: 14.47
10	: 0.7005	25	: 17.97
11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

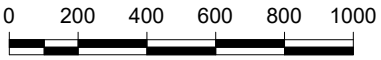
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:22000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4050E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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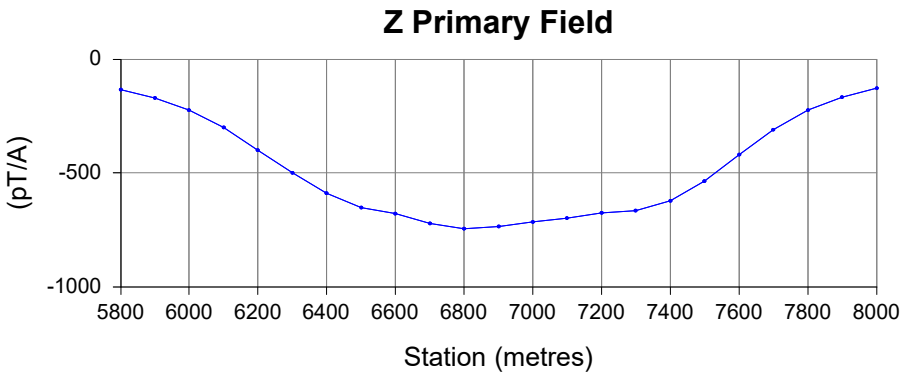
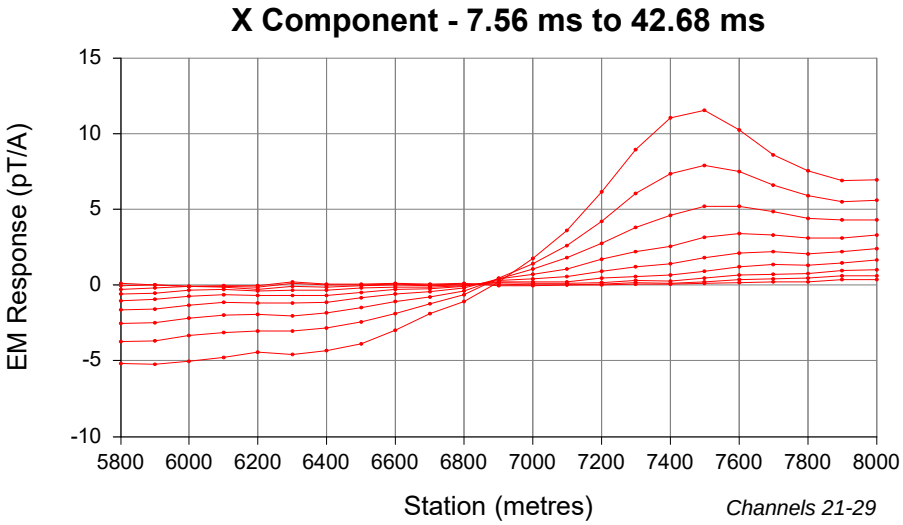
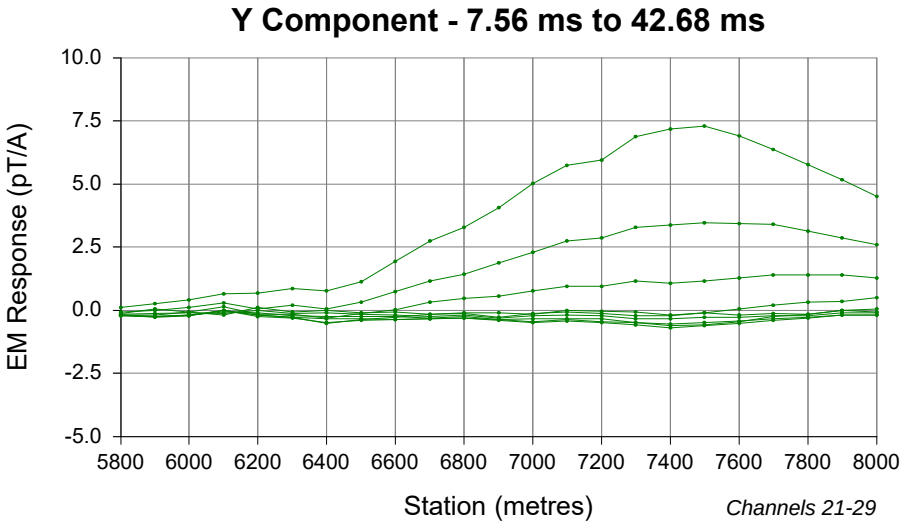
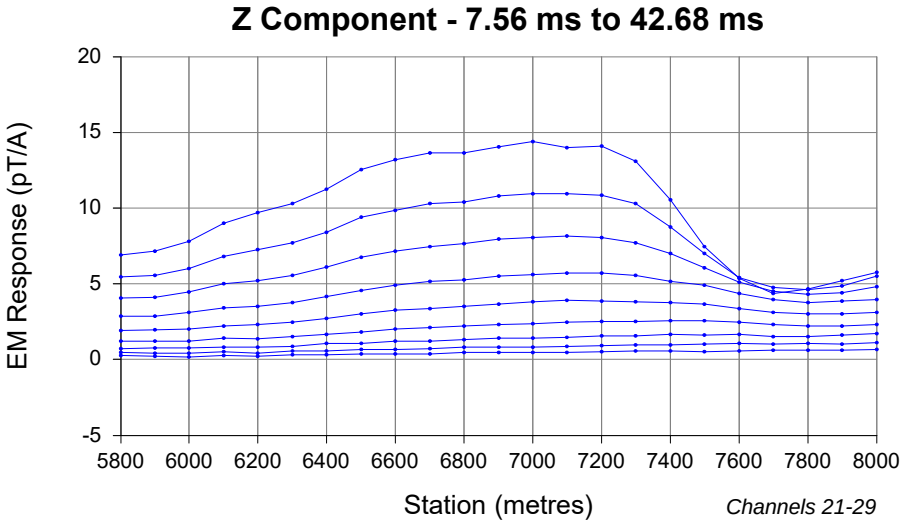








WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
8	: 0.4545	23	: 11.66
9	: 0.5645	24	: 14.47
10	: 0.7005	25	: 17.97
11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

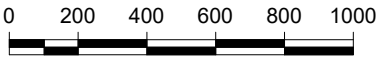
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



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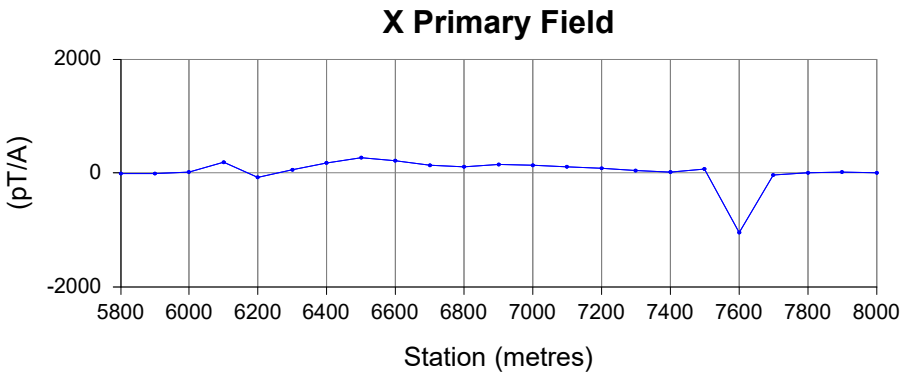

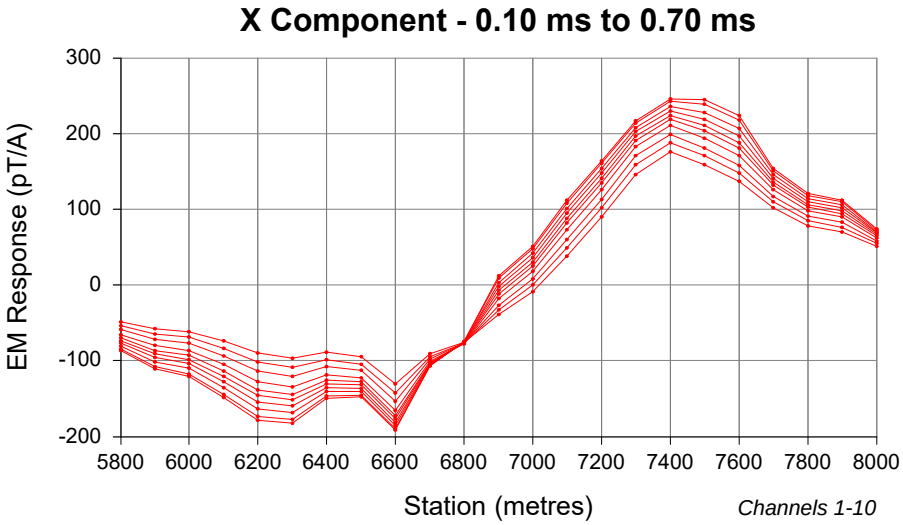

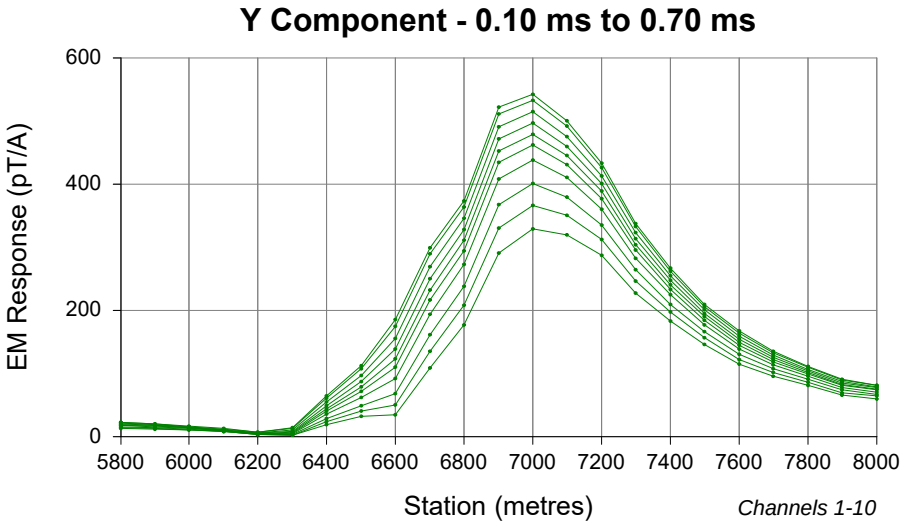

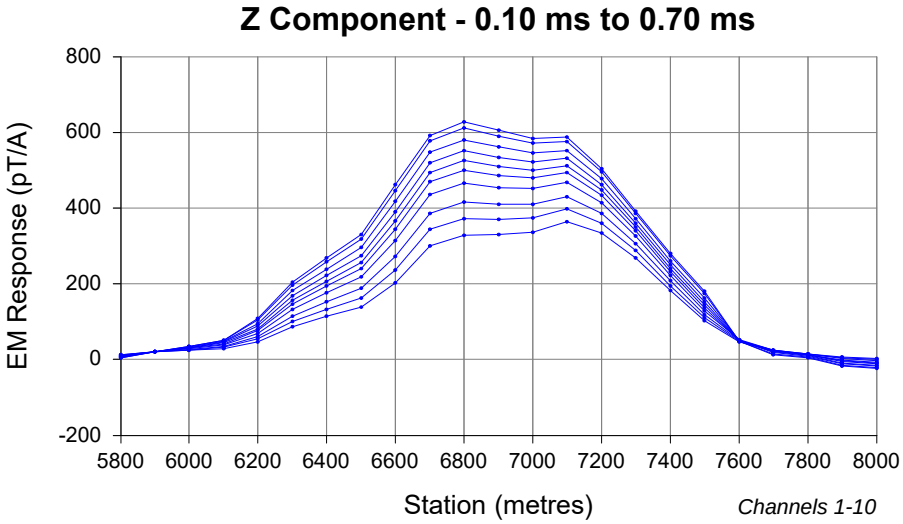

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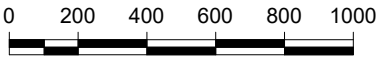

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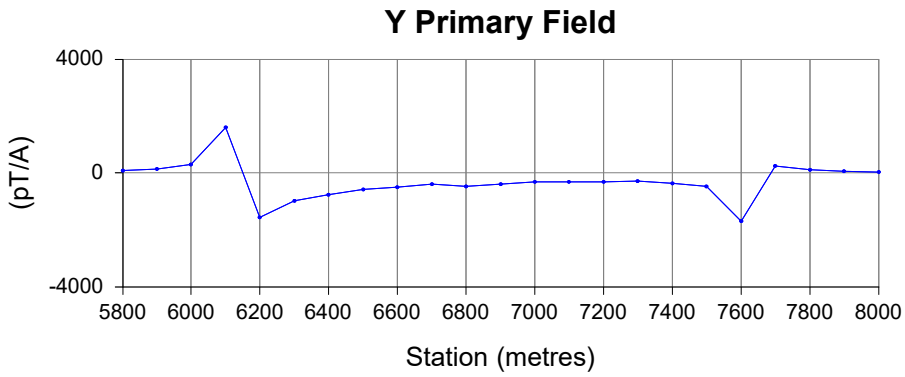

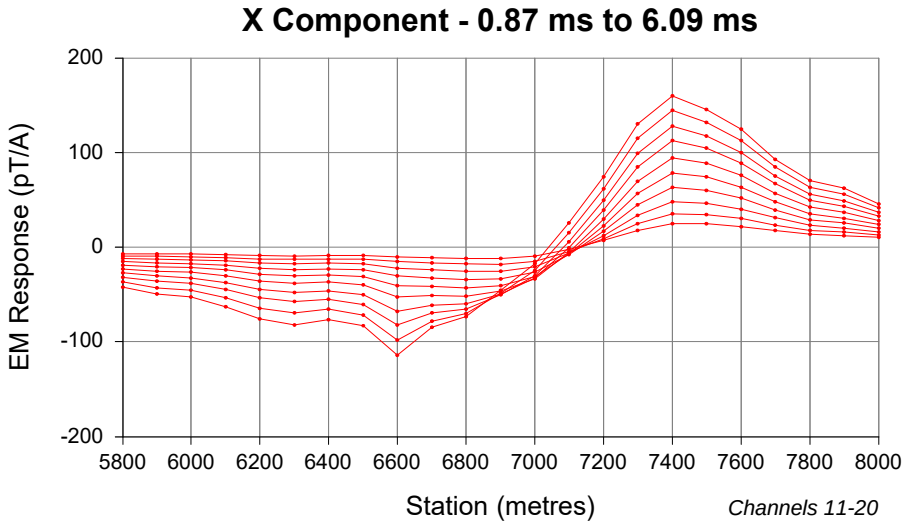

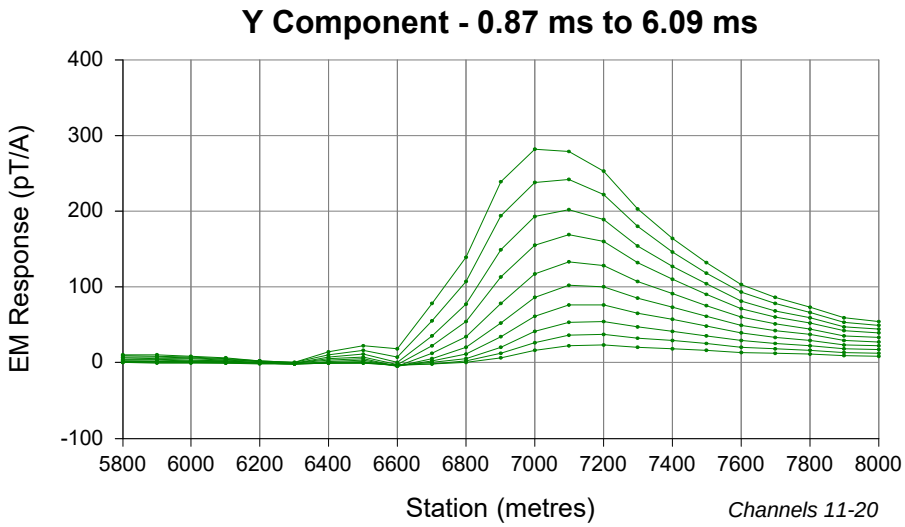

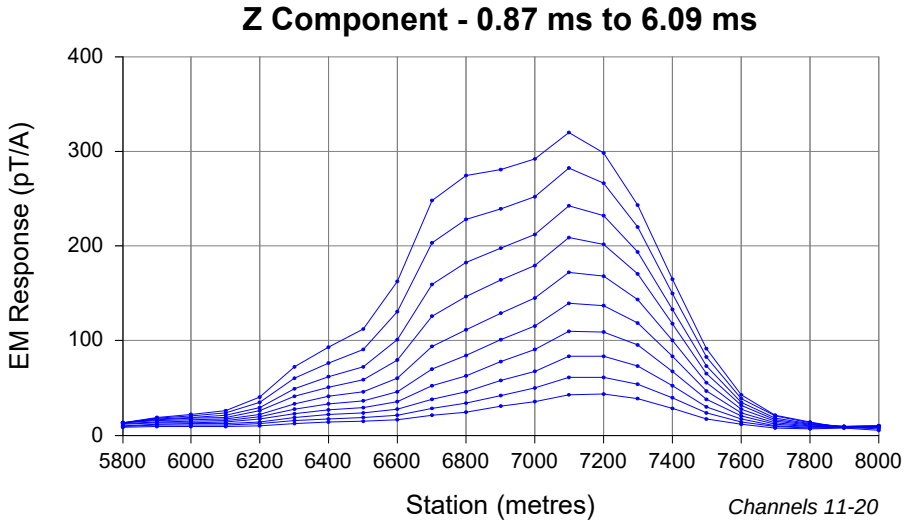

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Station Spacing	: 100 m

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0 200 400 600 800 1000

Scale 1:22000

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L4350E - LOOP 1

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Survey Date: September 2017

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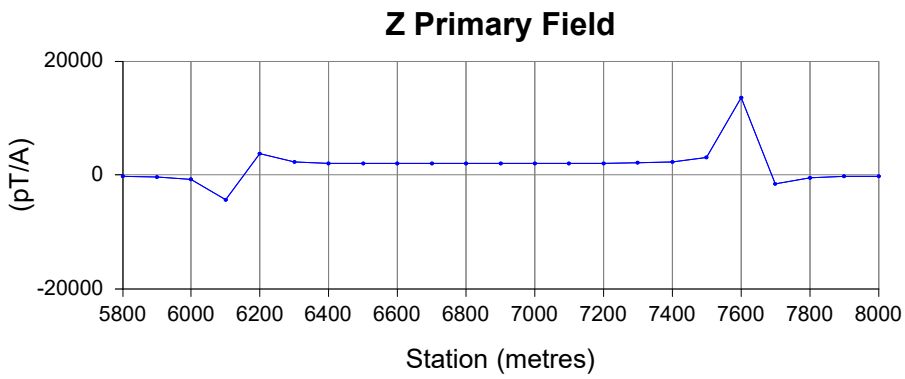

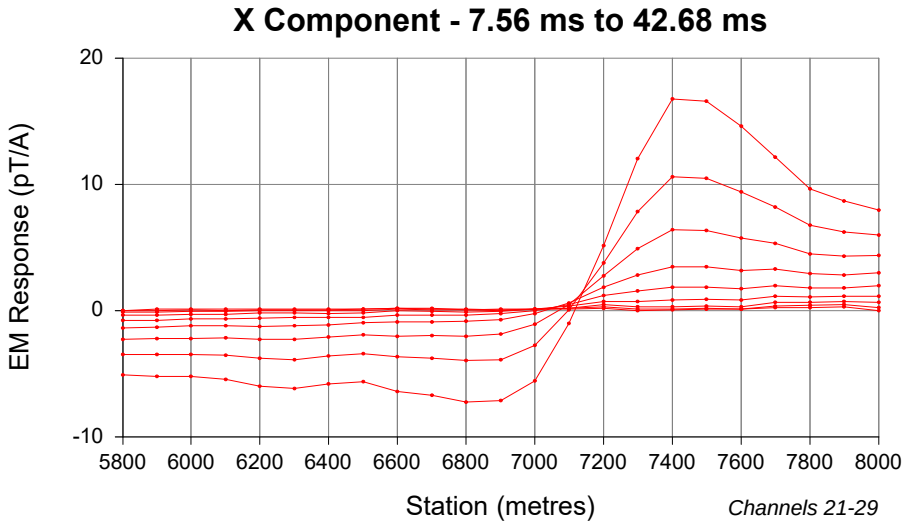

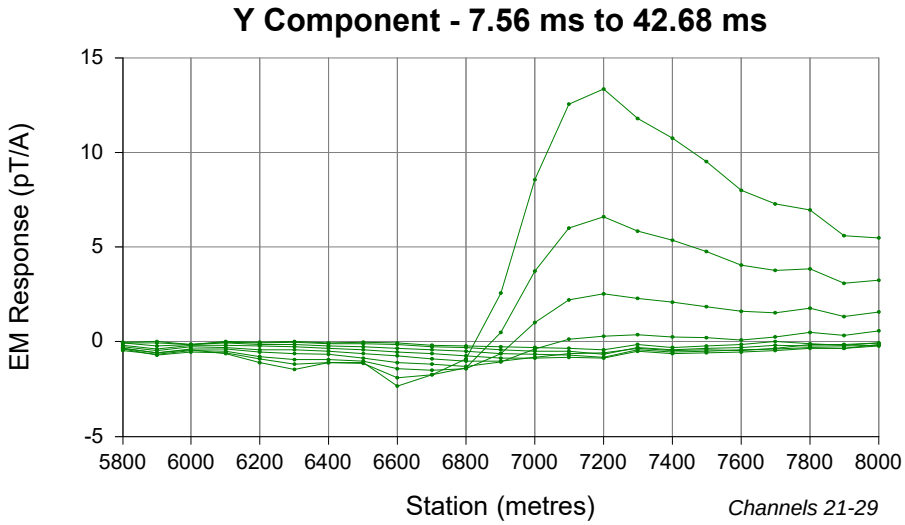

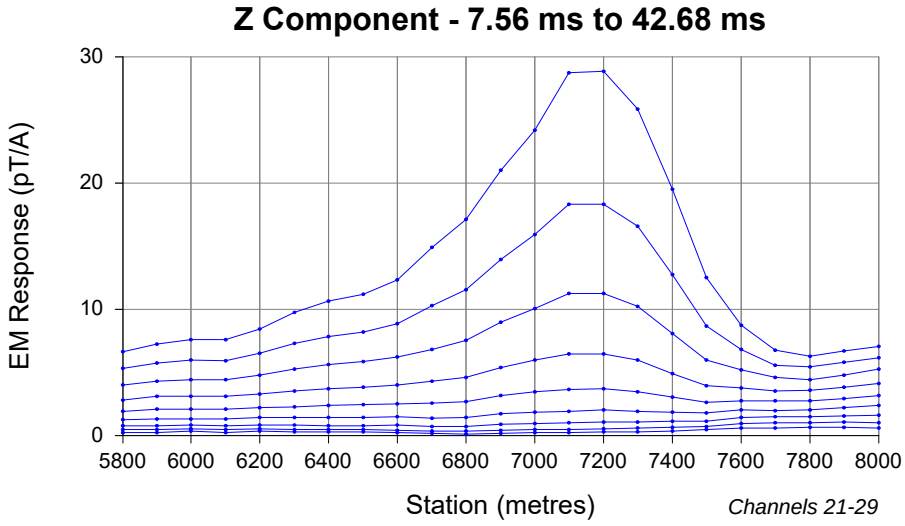

WINDOW TIMES (ms): Centre
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SURVEY PARAMETERS

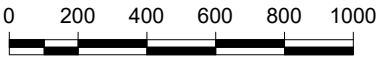
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



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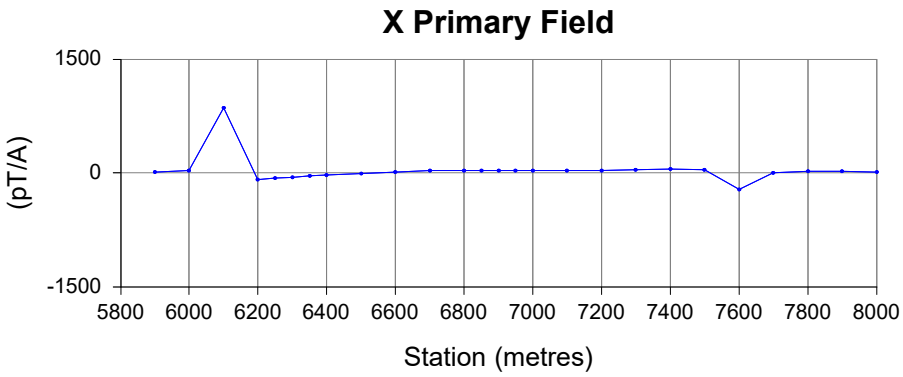

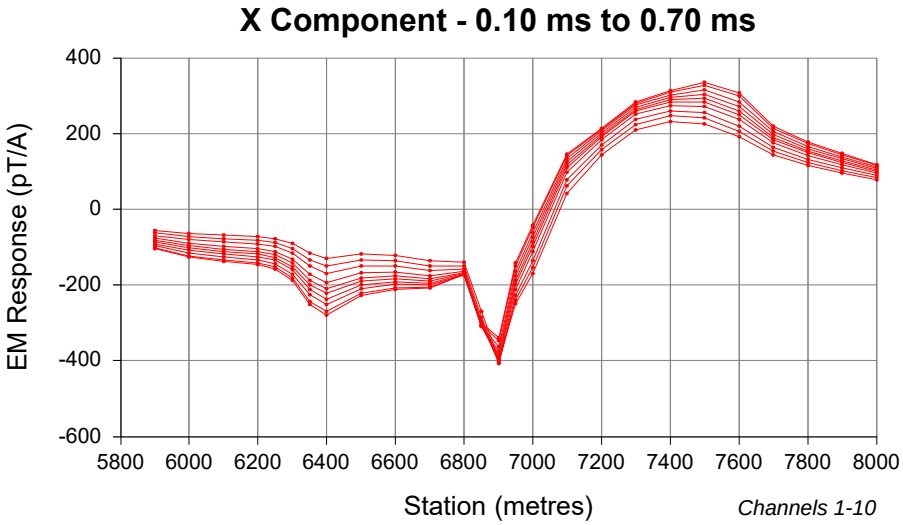

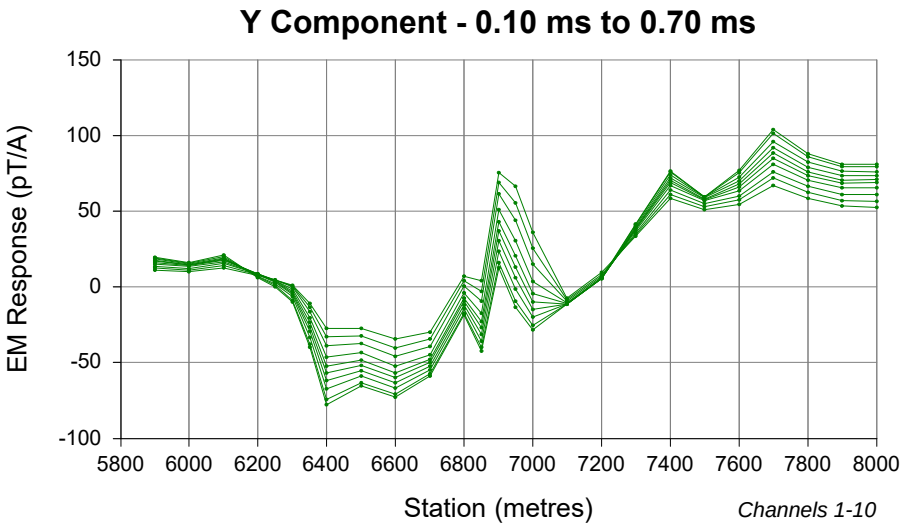

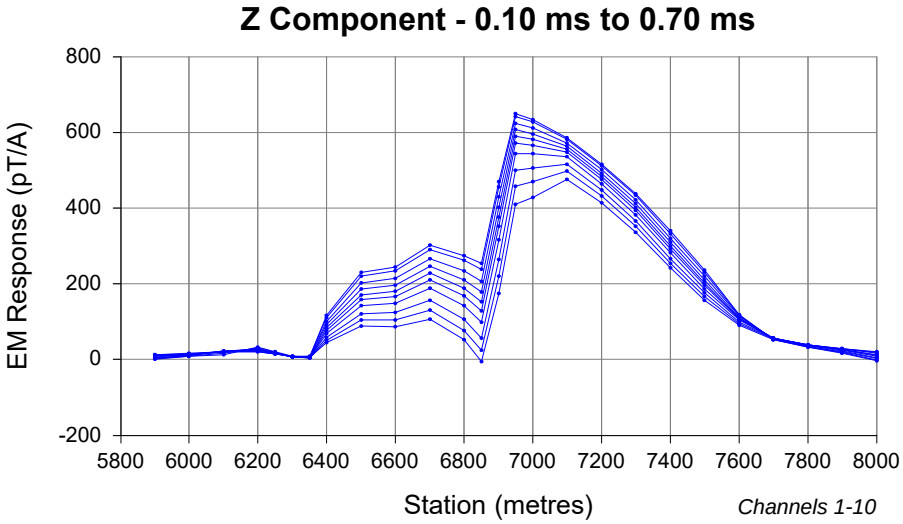

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SURVEY PARAMETERS

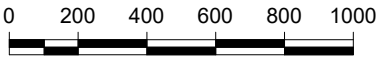
Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



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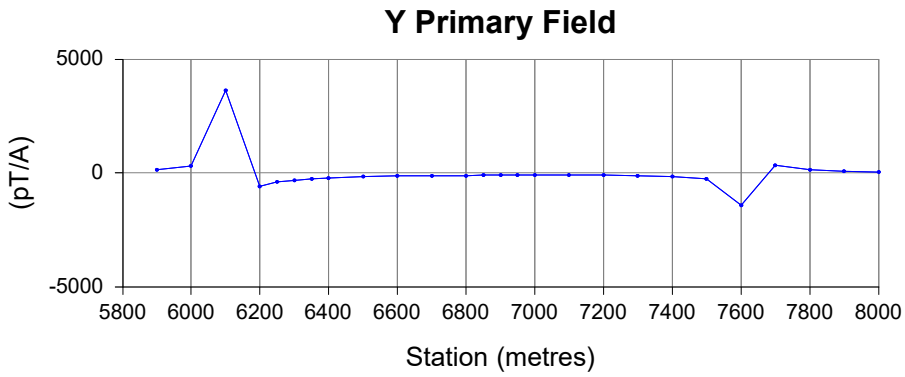

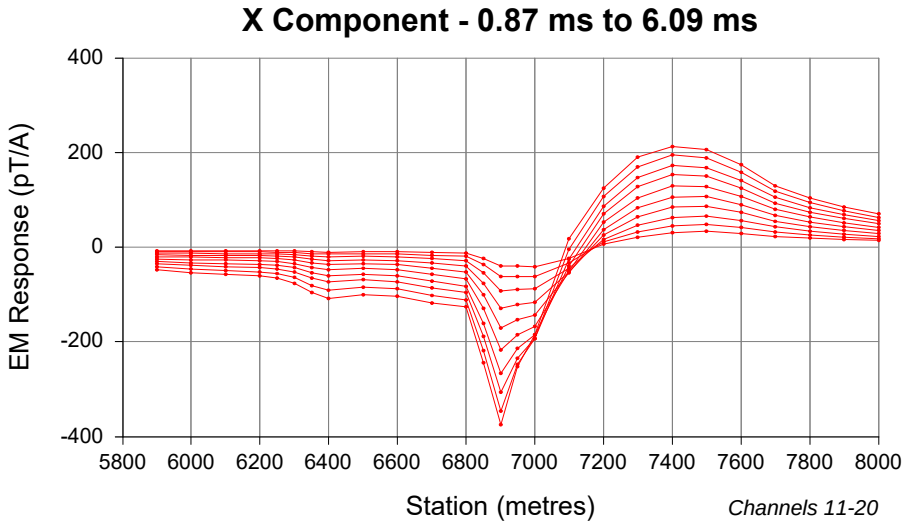

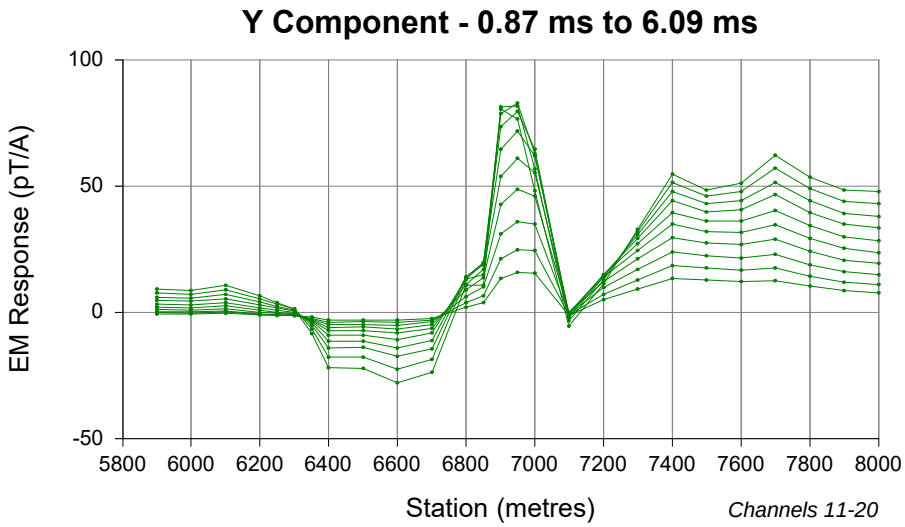

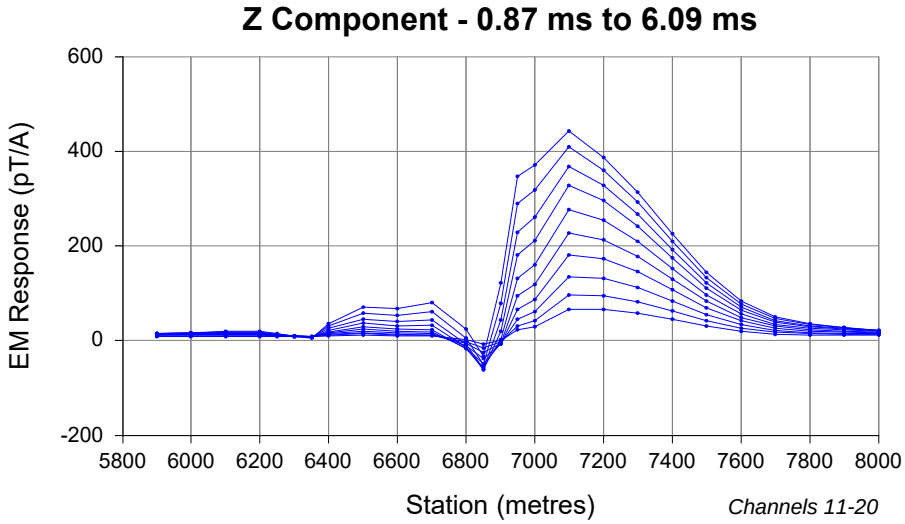

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Station Spacing	: 50-100 m

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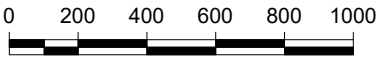

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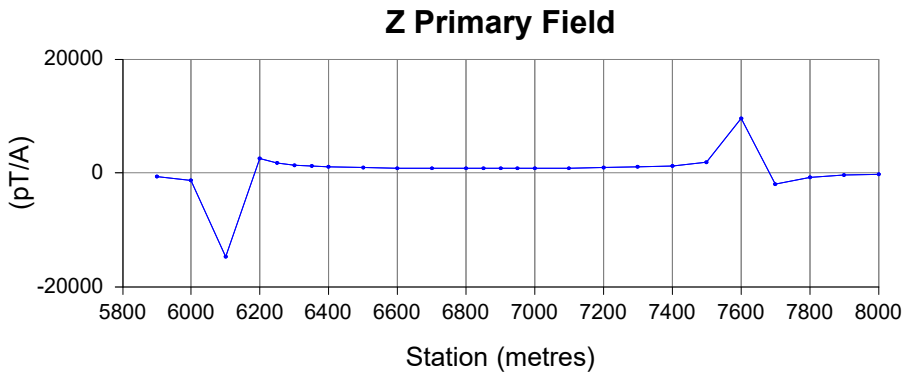

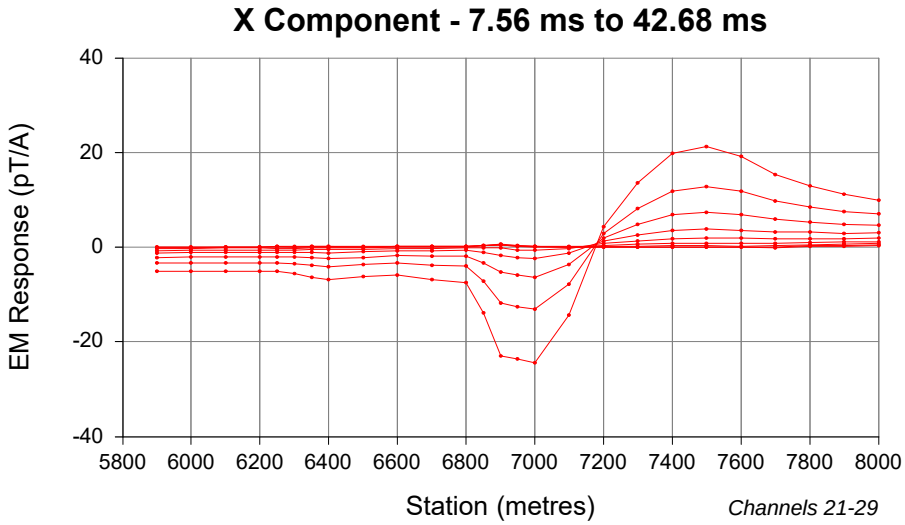

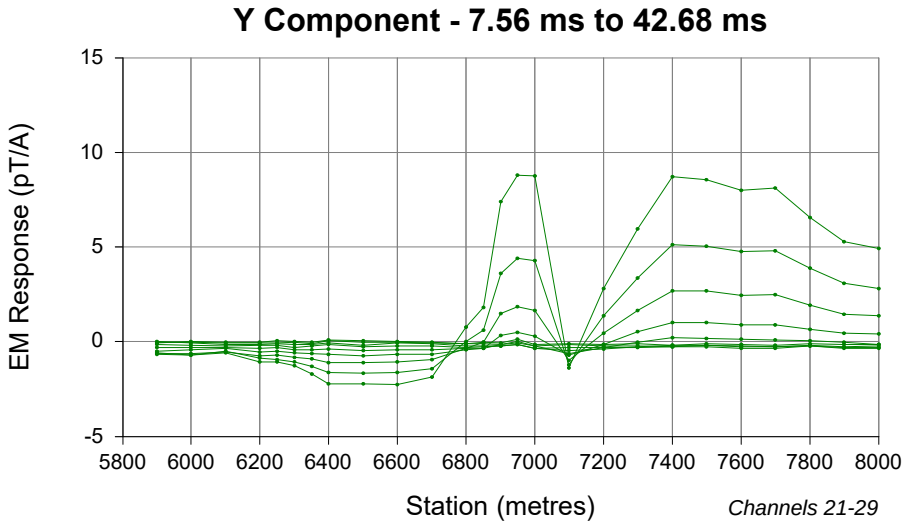

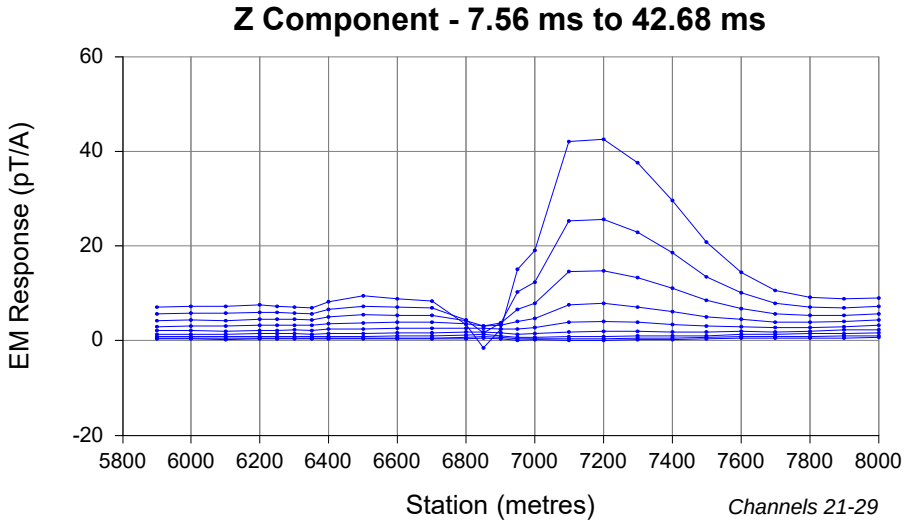

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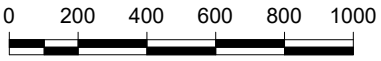
TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:22000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4650E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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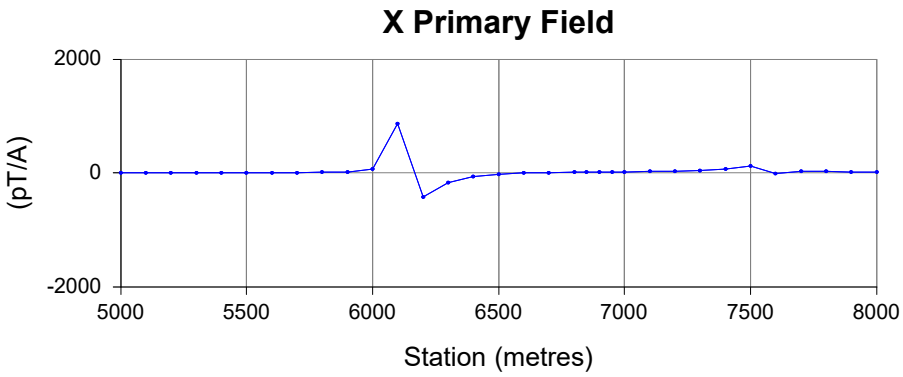
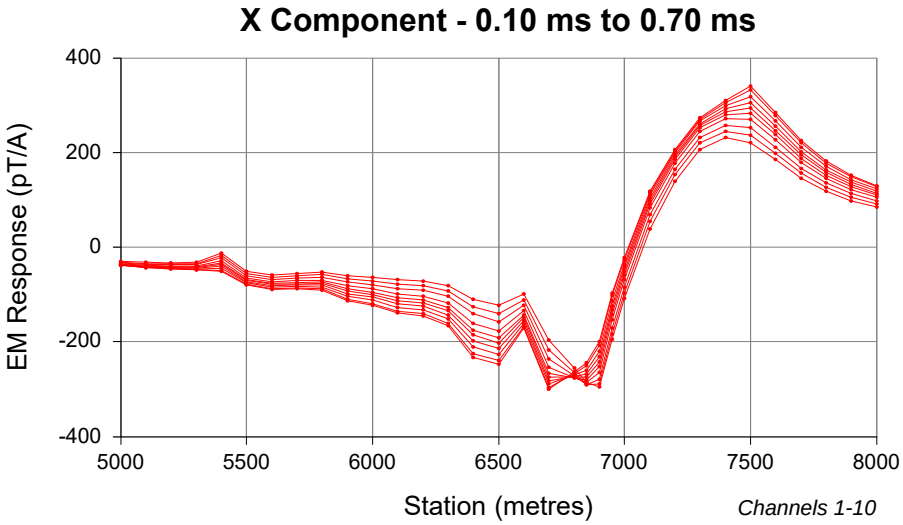
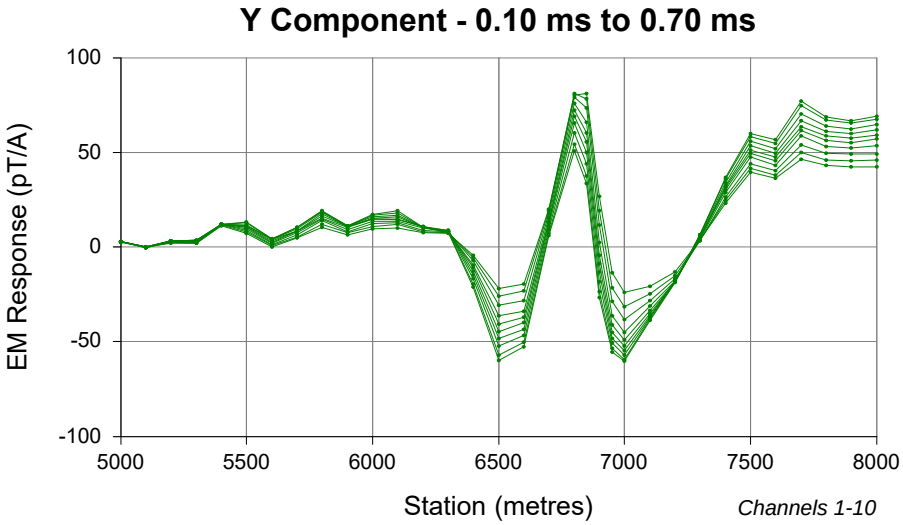
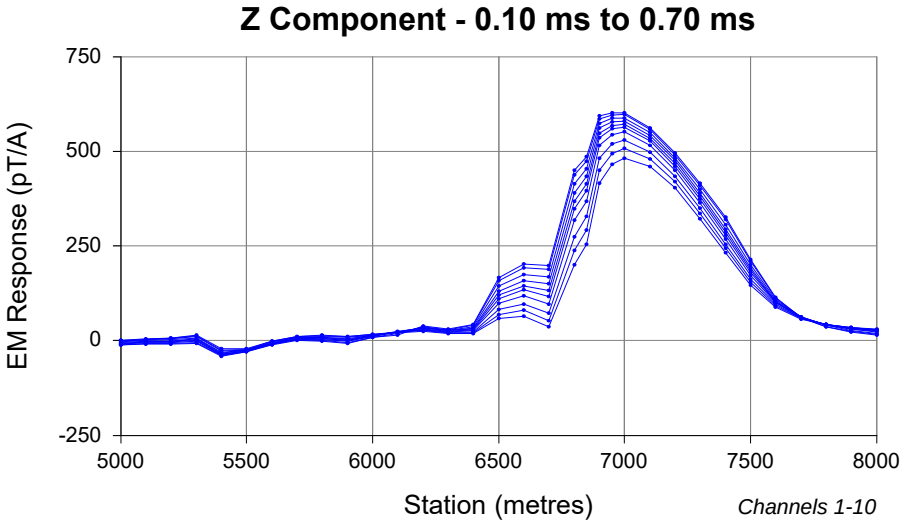








WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	19	: 4.908
2	: 0.1245	20	: 6.093
3	: 0.1540	21	: 7.564
4	: 0.1910	22	: 9.390
5	: 0.2375	23	: 11.66
6	: 0.2950	24	: 14.47
7	: 0.3660	25	: 17.97
8	: 0.4545	26	: 22.31
9	: 0.5645	27	: 27.69
10	: 0.7005	28	: 34.38
11	: 0.8695	29	: 42.68
12	: 1.080	30	: 52.99
13	: 1.341	31	: 65.79
14	: 1.664	32	: 81.67
15	: 2.066	33	: 101.4
16	: 2.565	34	: 125.9
17	: 3.184	35	: 156.3
18	: 3.953	36	: 194.0

SURVEY PARAMETERS

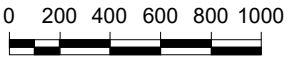
Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 1 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:30000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4750E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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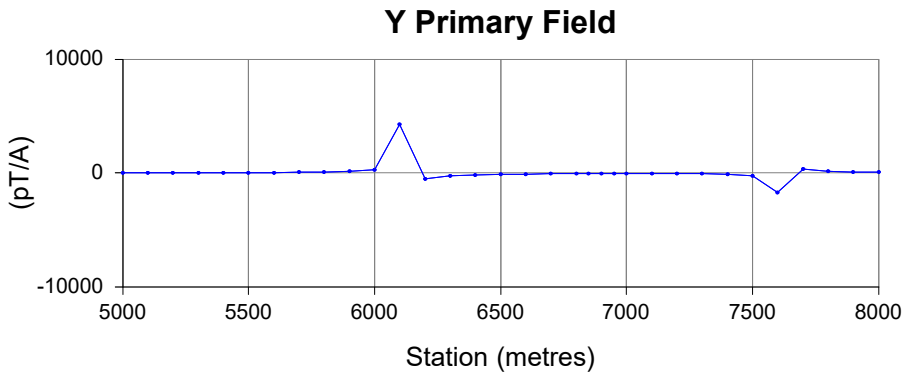

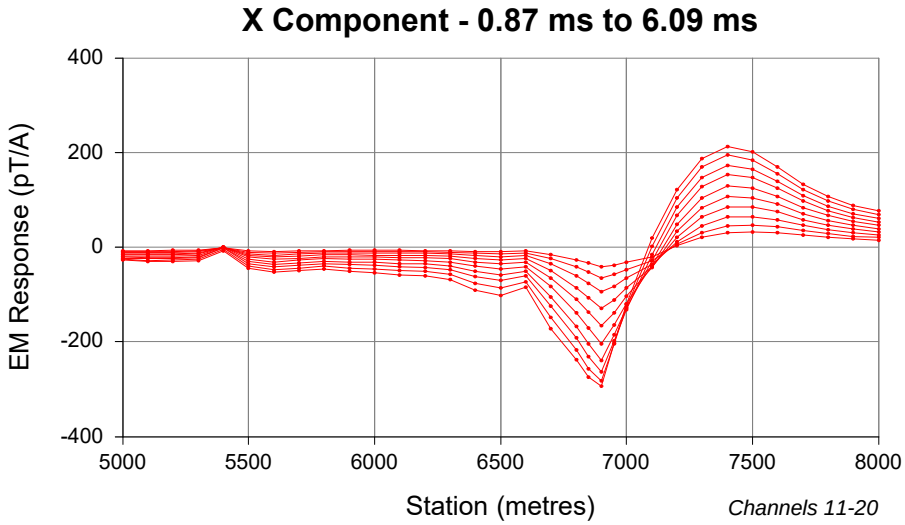

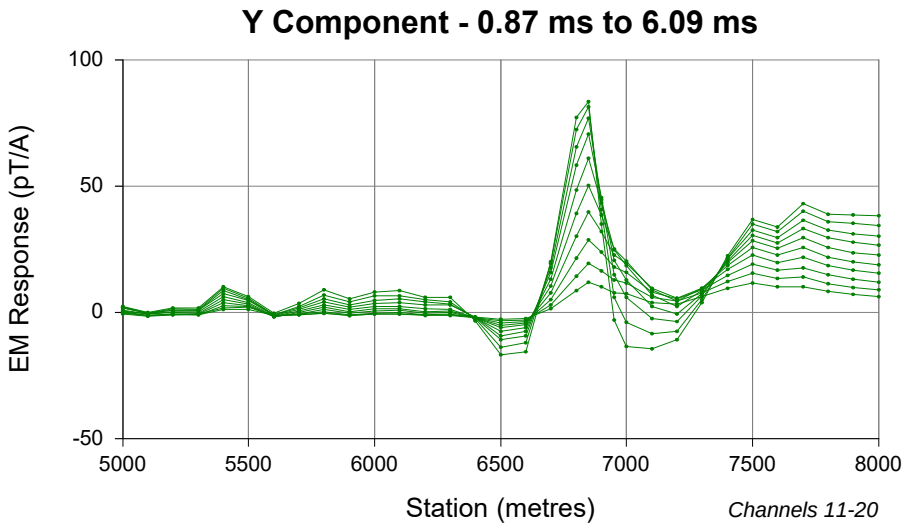

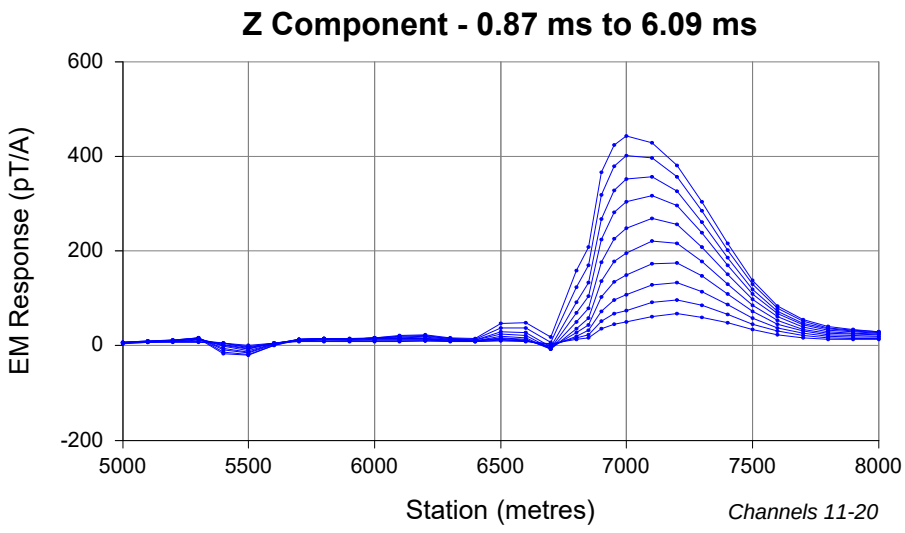

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 1 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms

0 200 400 600 800 1000

Scale 1:30000

BMC Minerals Ltd.
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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4750E - LOOP 1

Surveyed By: Connor Harrison
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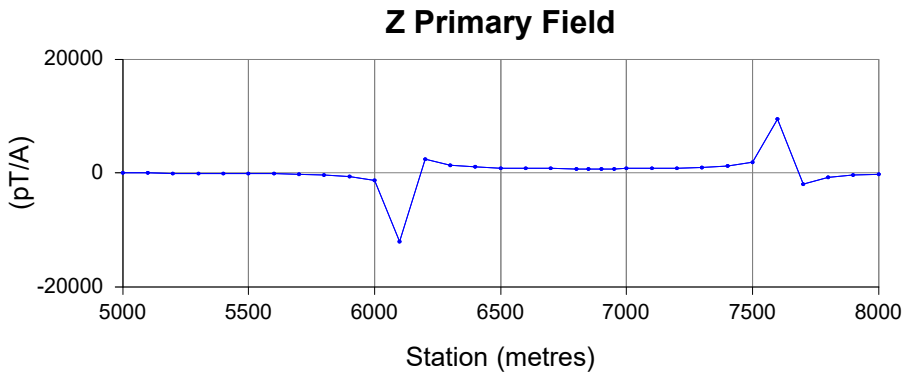

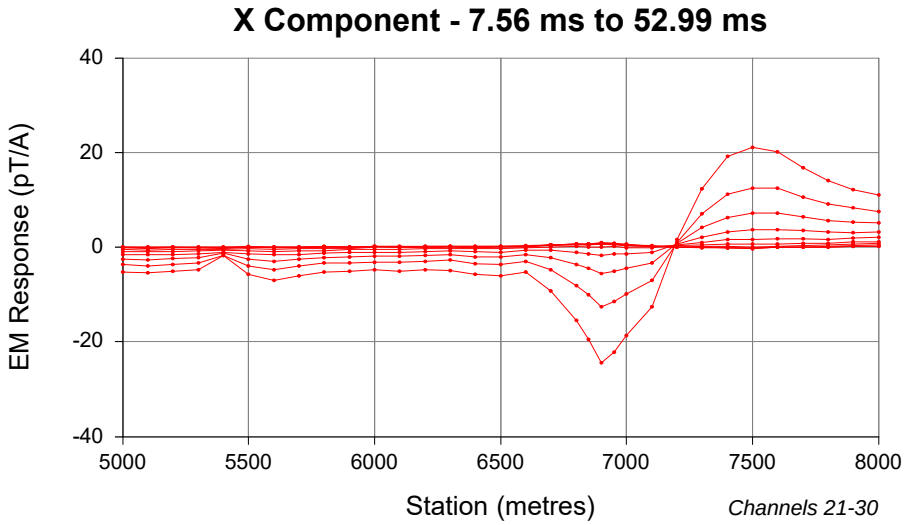

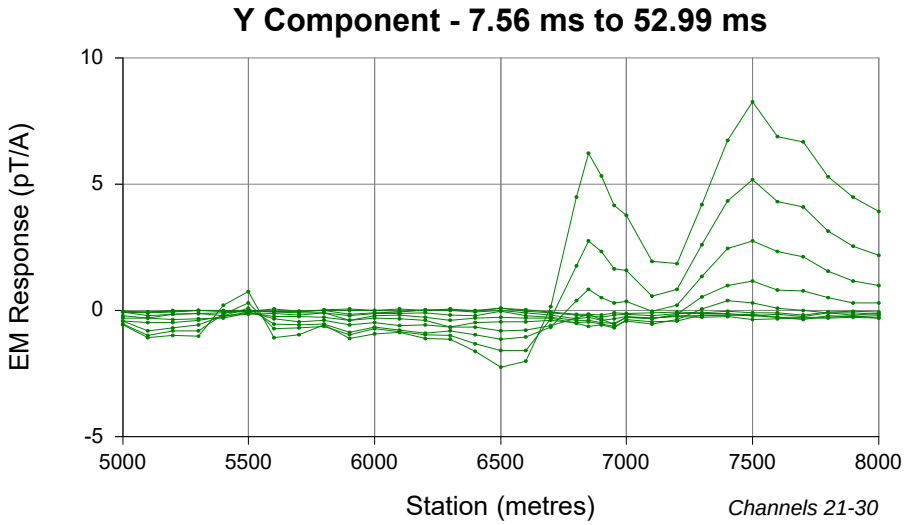

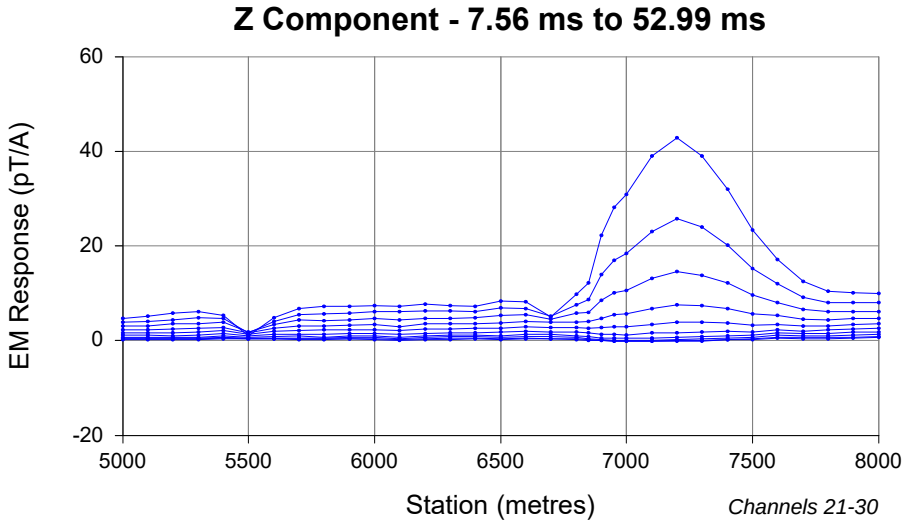

WINDOW TIMES (ms): Centre
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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 1 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms

0 200 400 600 800 1000

Scale 1:30000

BMC Minerals Ltd.
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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4750E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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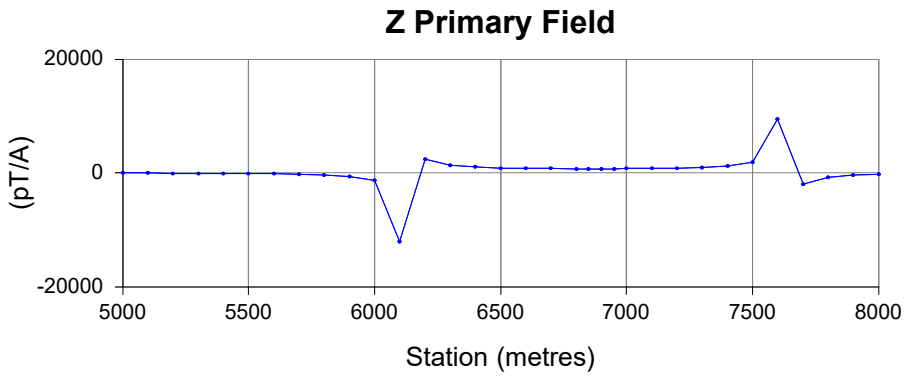

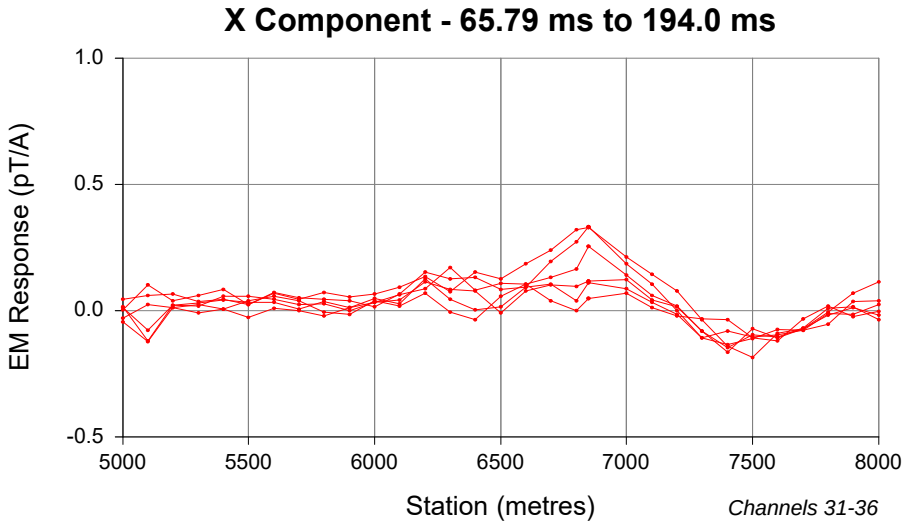

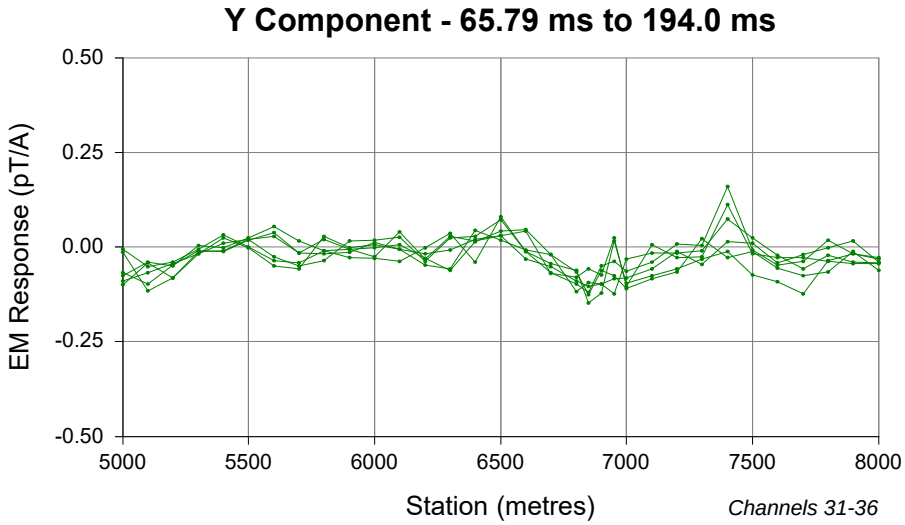

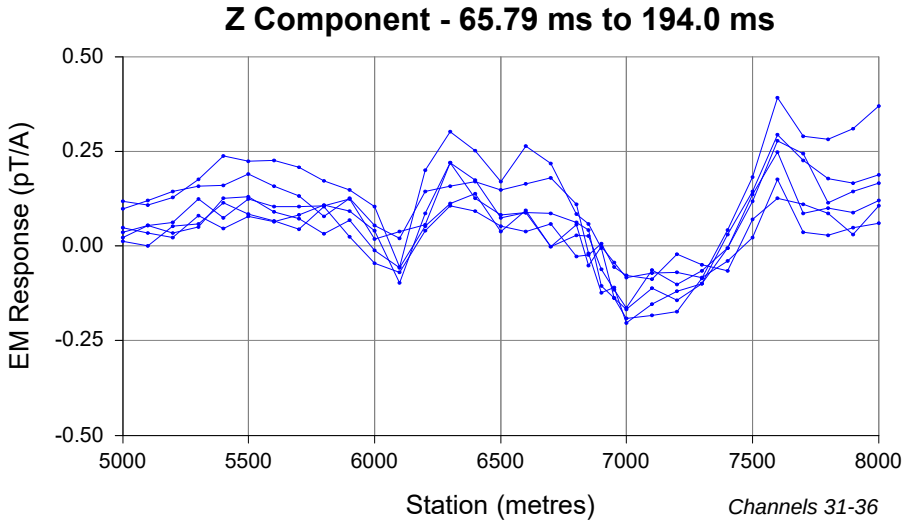

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From the end of the Turn-Off Ramp

1	: 0.0995	19	: 4.908
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16	: 2.565	34	: 125.9
17	: 3.184	35	: 156.3
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SURVEY PARAMETERS

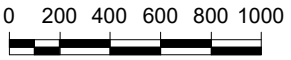
Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 1 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



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L4750E - LOOP 1

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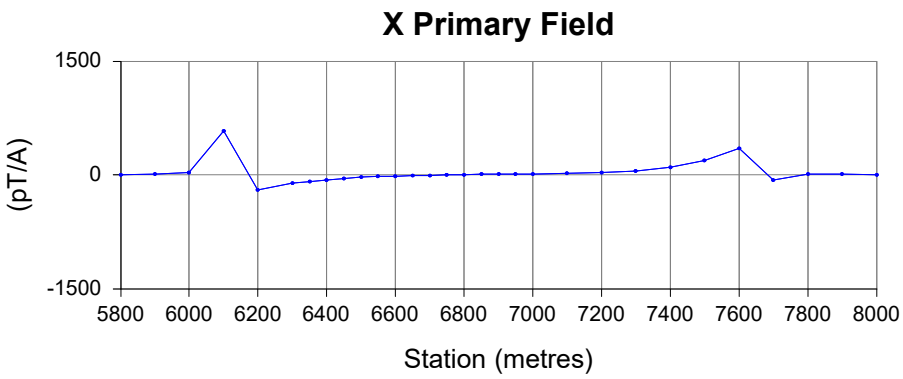

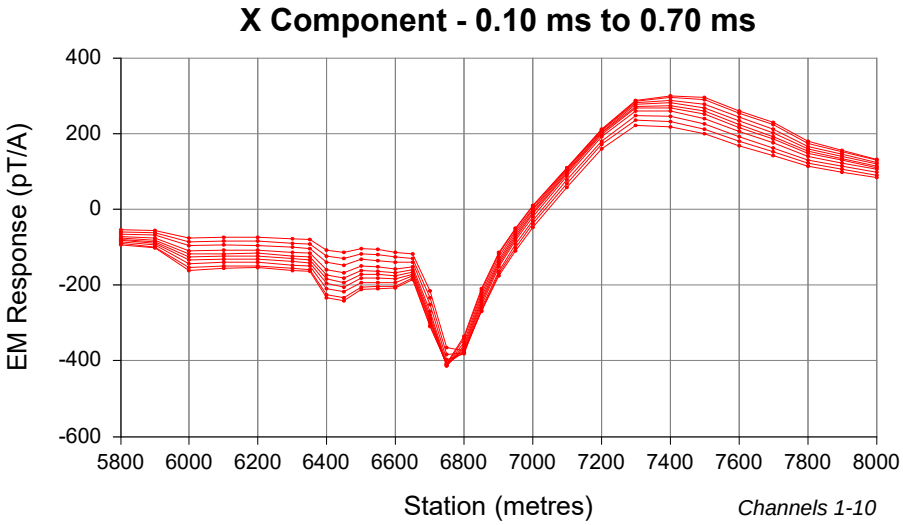

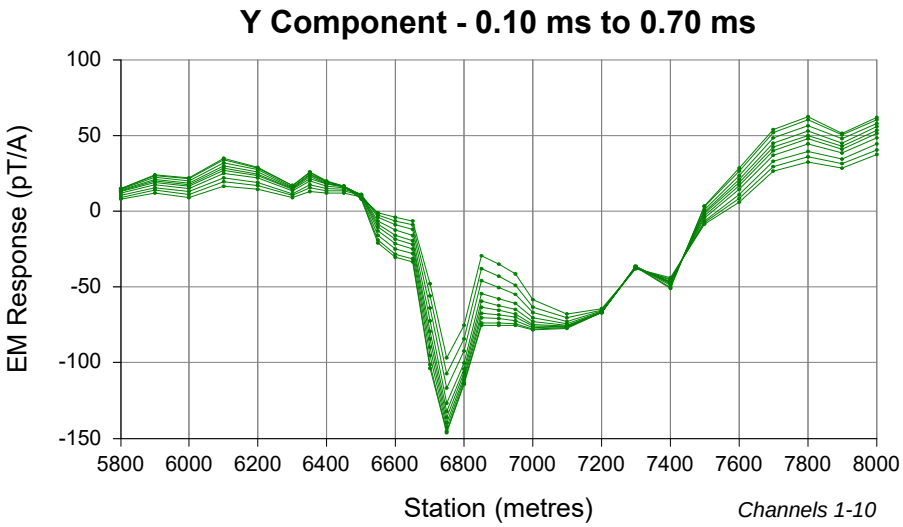

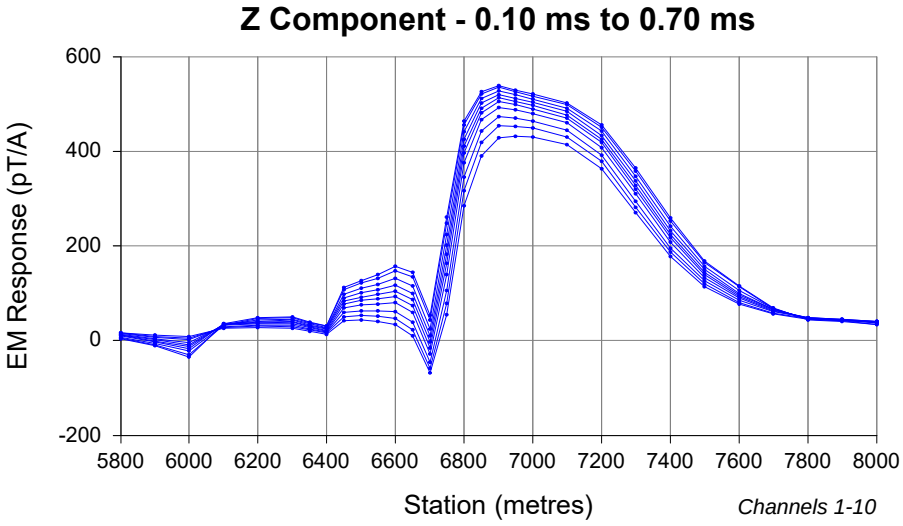

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
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11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

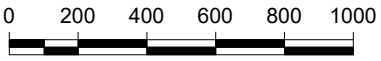
Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:22000

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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4950E - LOOP 1

Surveyed By: Connor Harrison
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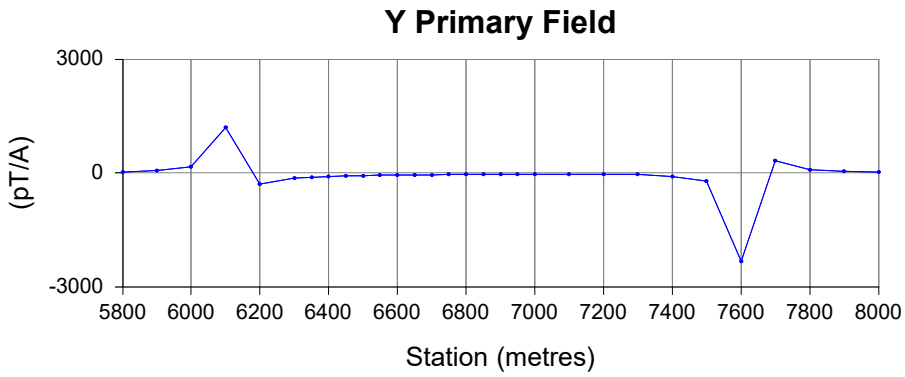

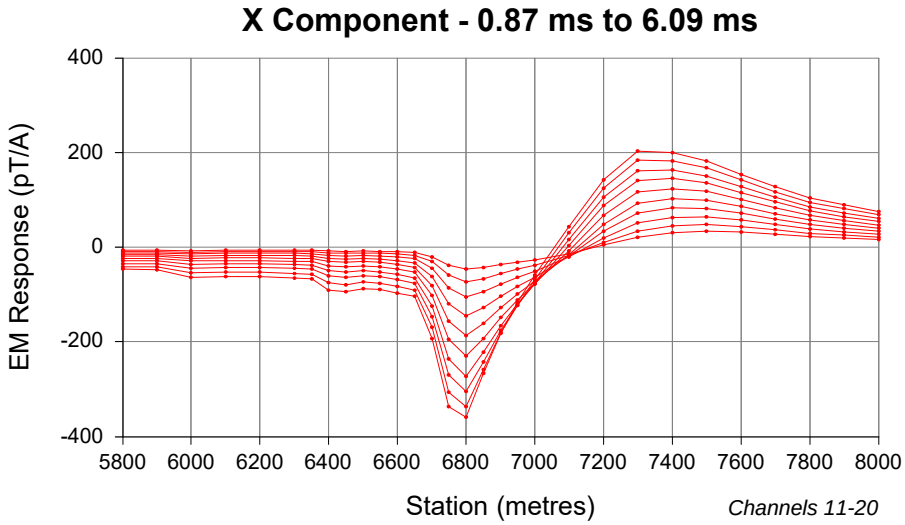

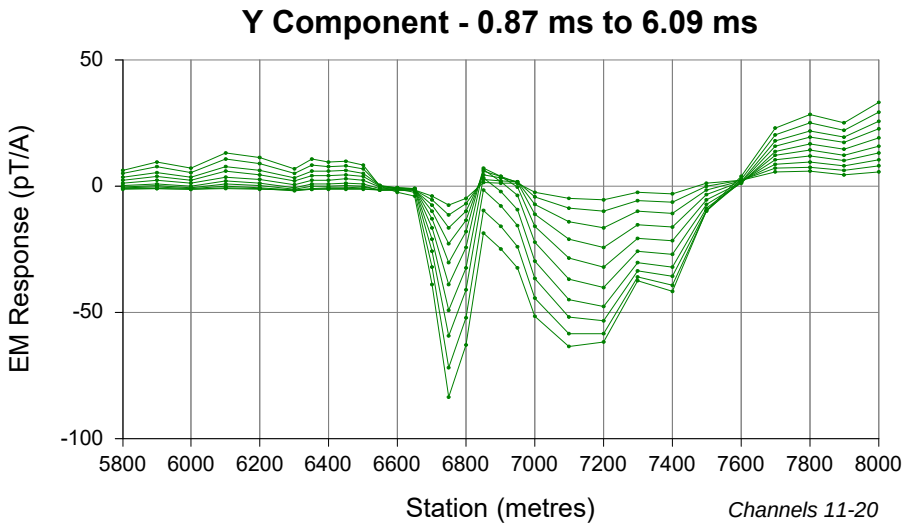

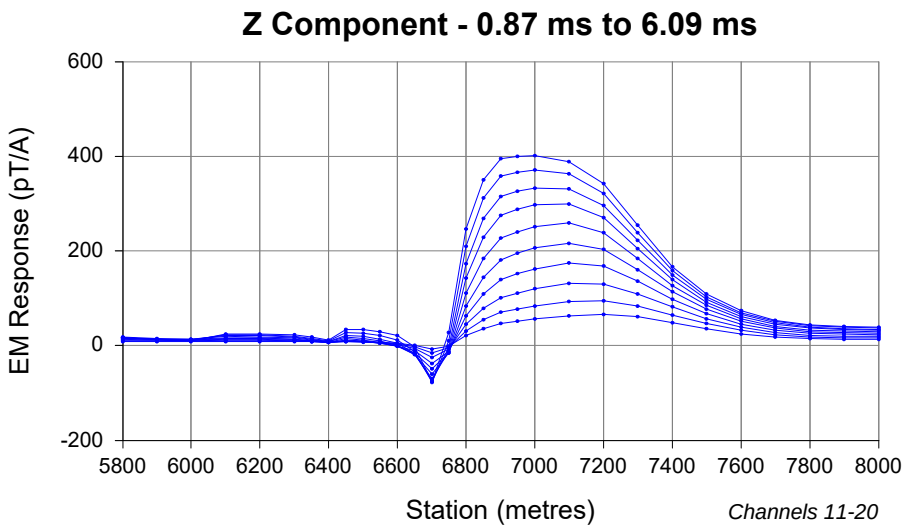

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14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

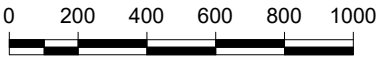
Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:22000

BMC Minerals Ltd.
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L4950E - LOOP 1

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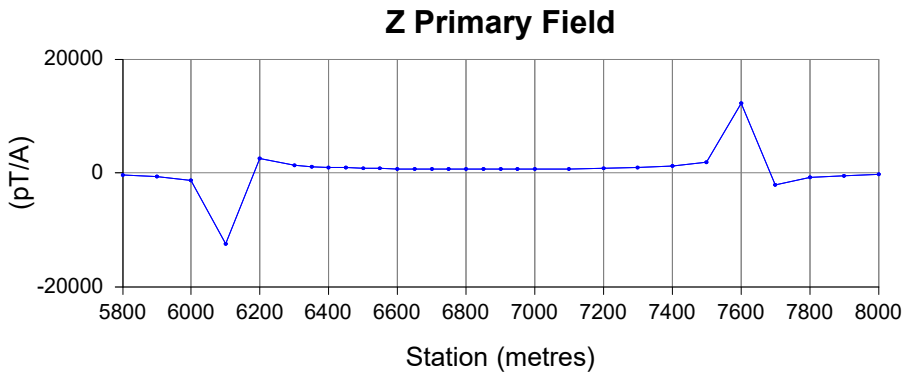

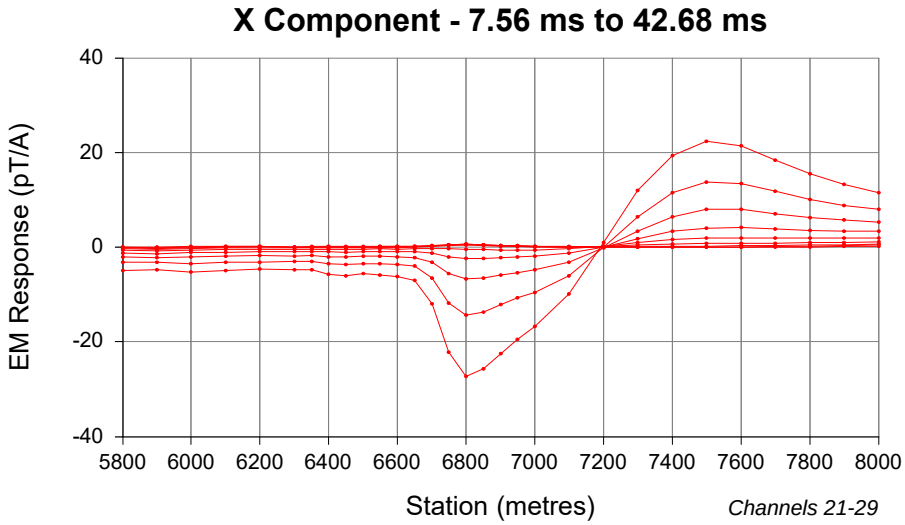

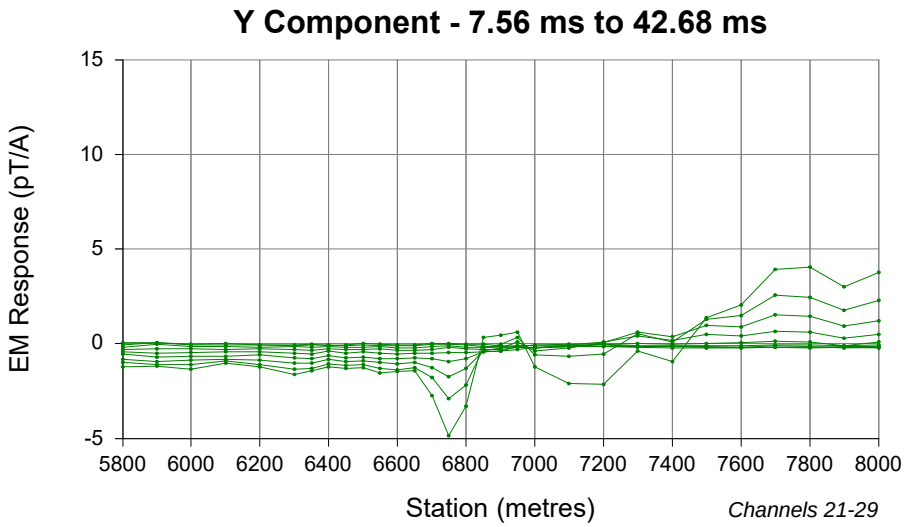

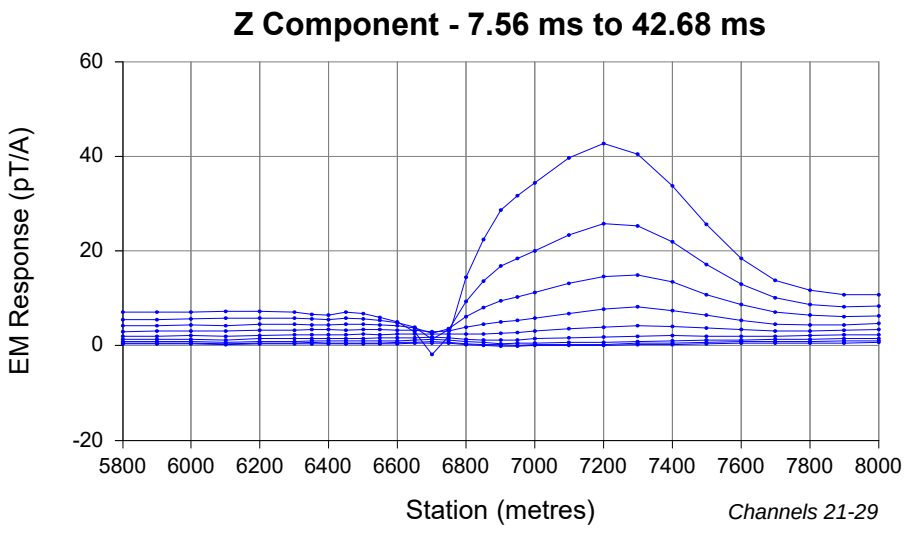

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From the end of the Turn-Off Ramp

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4	: 0.1910	19	: 4.908
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11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

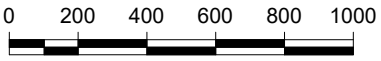
Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:22000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4950E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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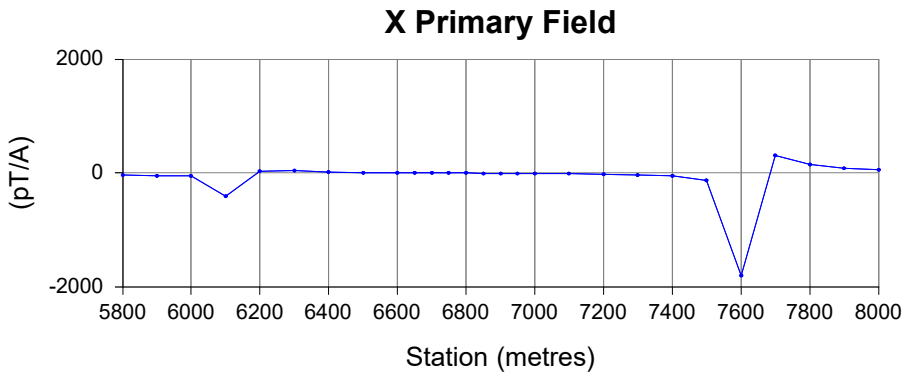

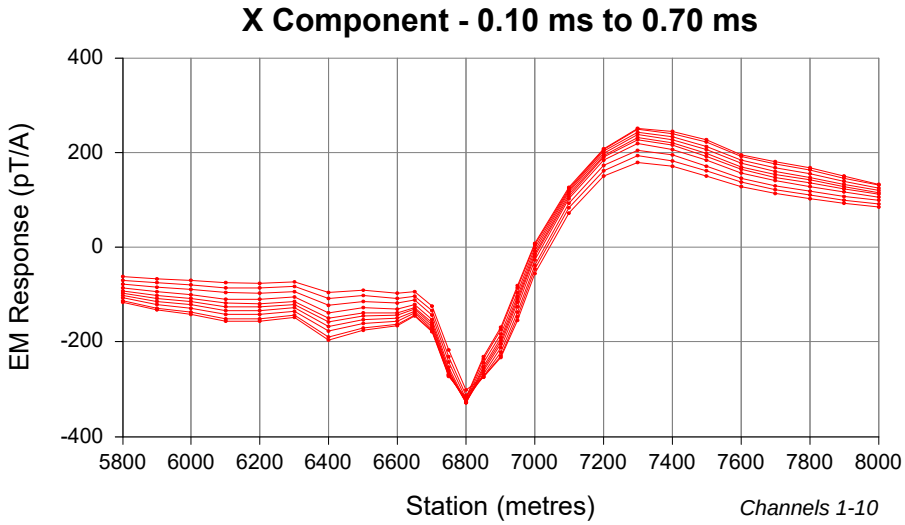

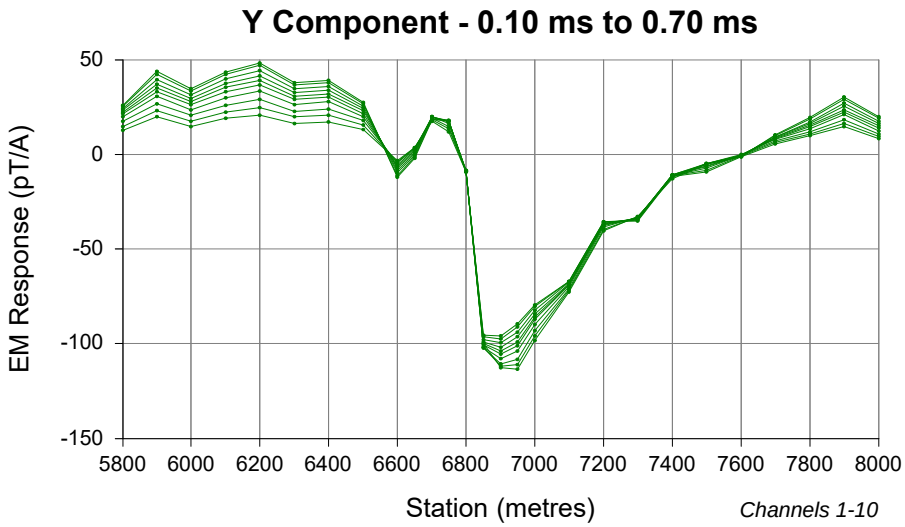

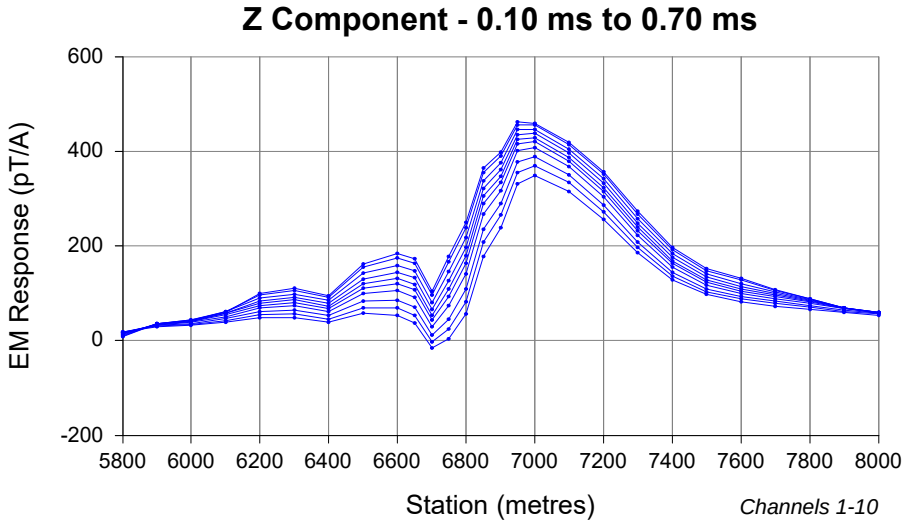

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
8	: 0.4545	23	: 11.66
9	: 0.5645	24	: 14.47
10	: 0.7005	25	: 17.97
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SURVEY PARAMETERS

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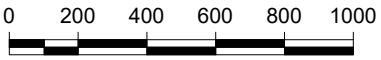

Scale 1:22000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5250E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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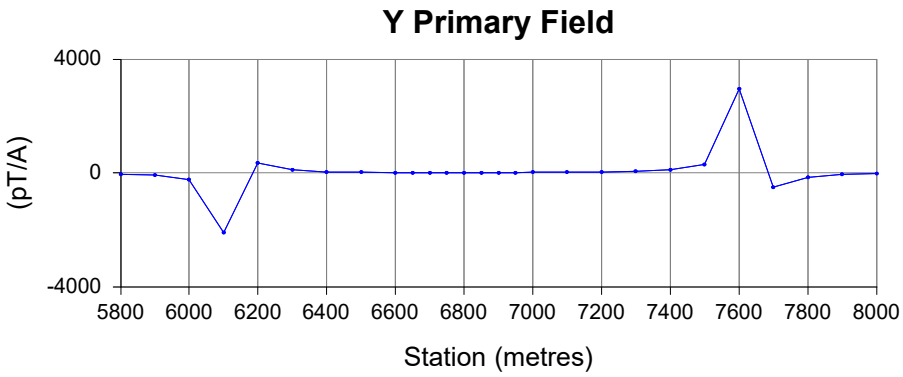

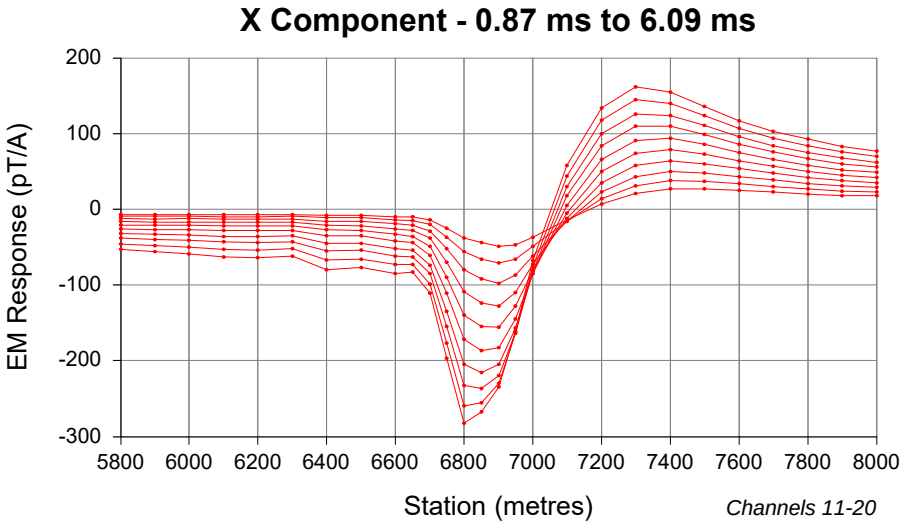

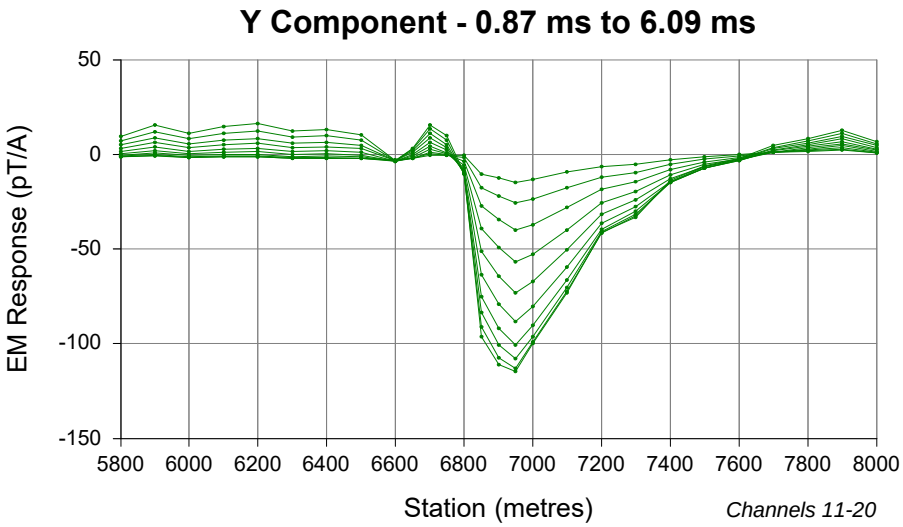

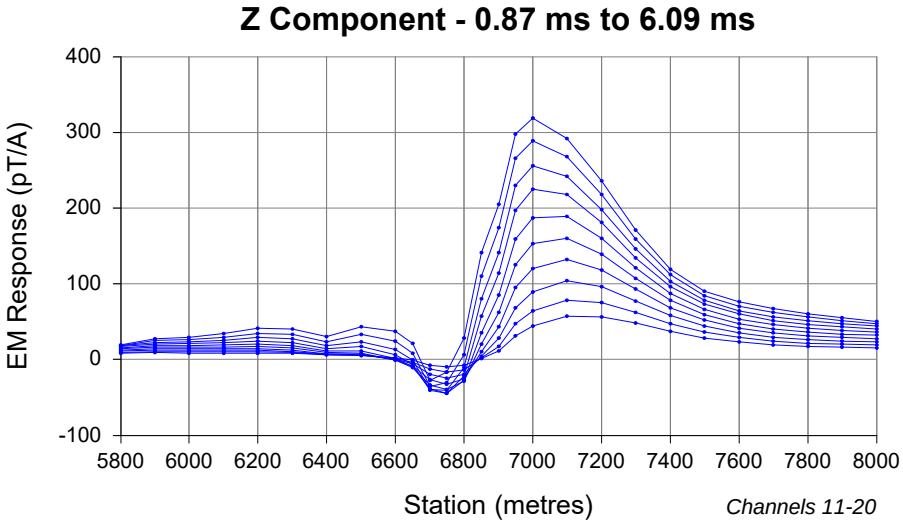

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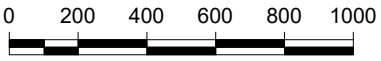

Scale 1:22000

BMC Minerals Ltd.
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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5250E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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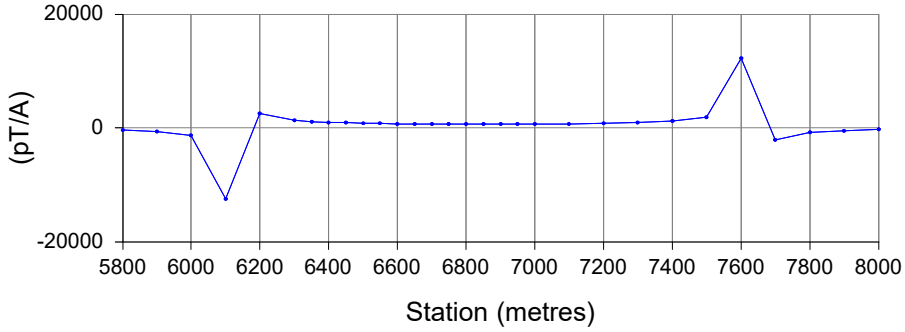
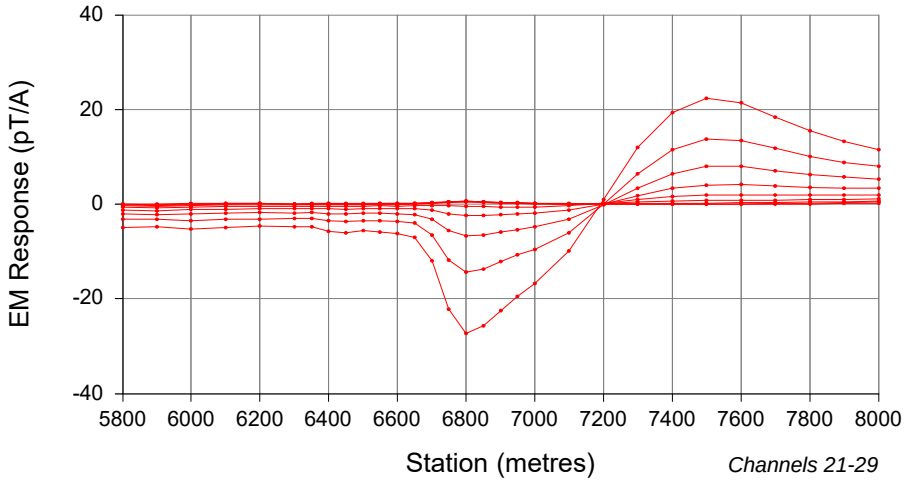
Z Primary Field



X Component - 7.56 ms to 42.68 ms



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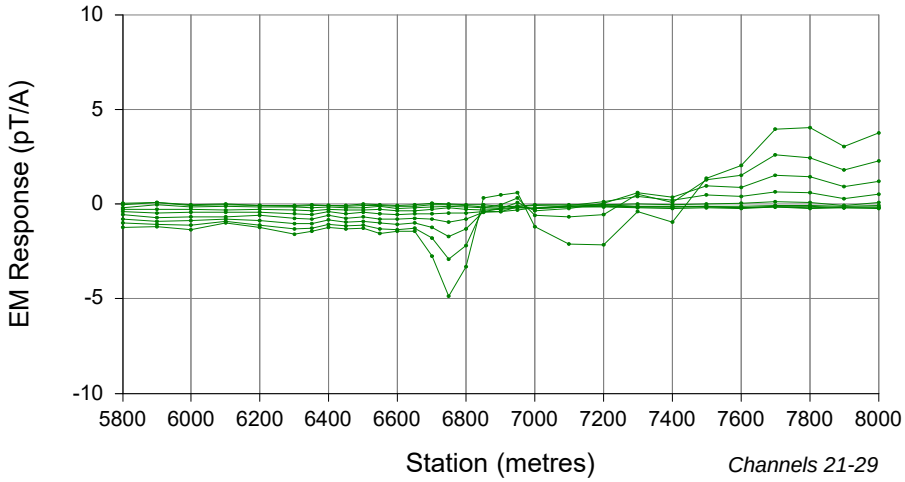
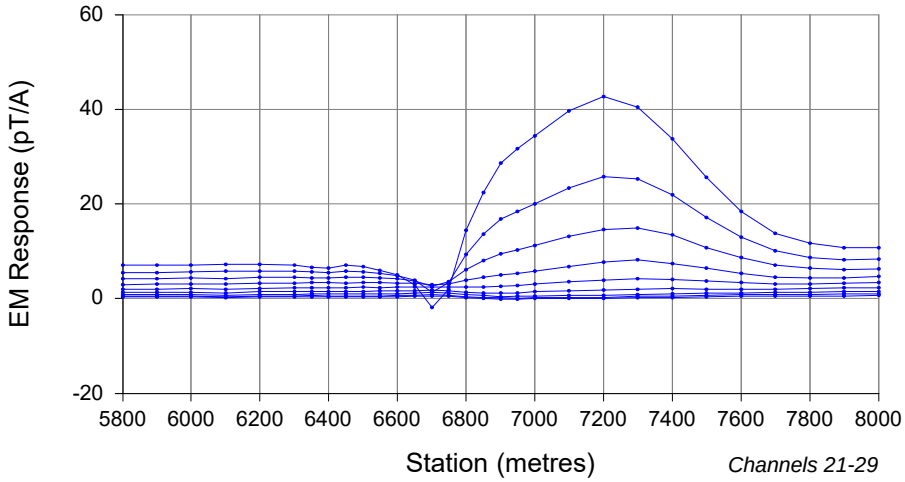


Z Component - 7.56 ms to 42.68 ms



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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
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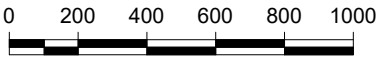

Scale 1:22000

BMC Minerals Ltd.
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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5250E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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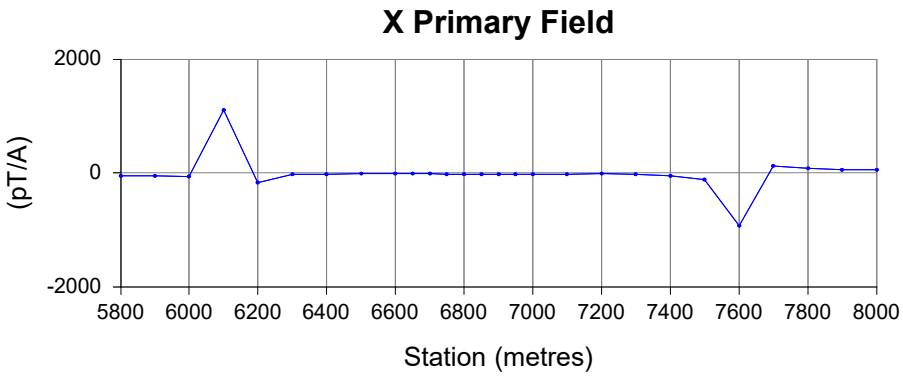

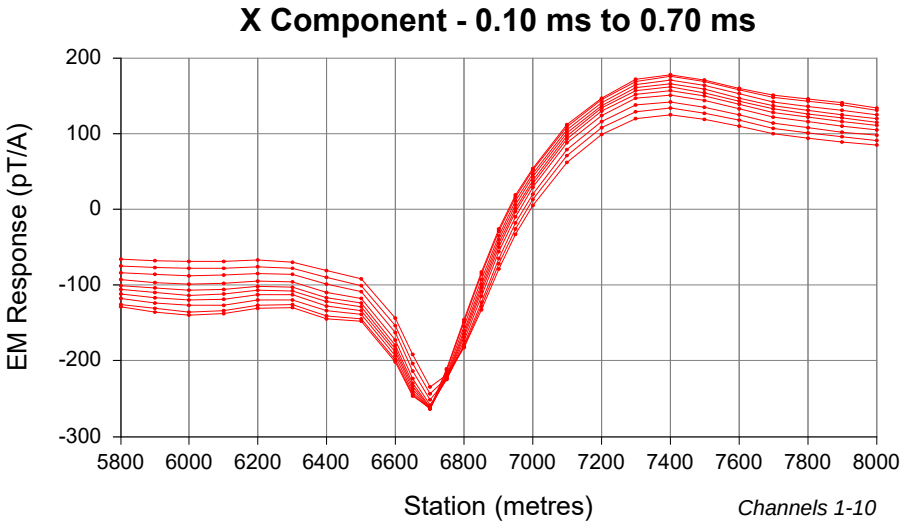

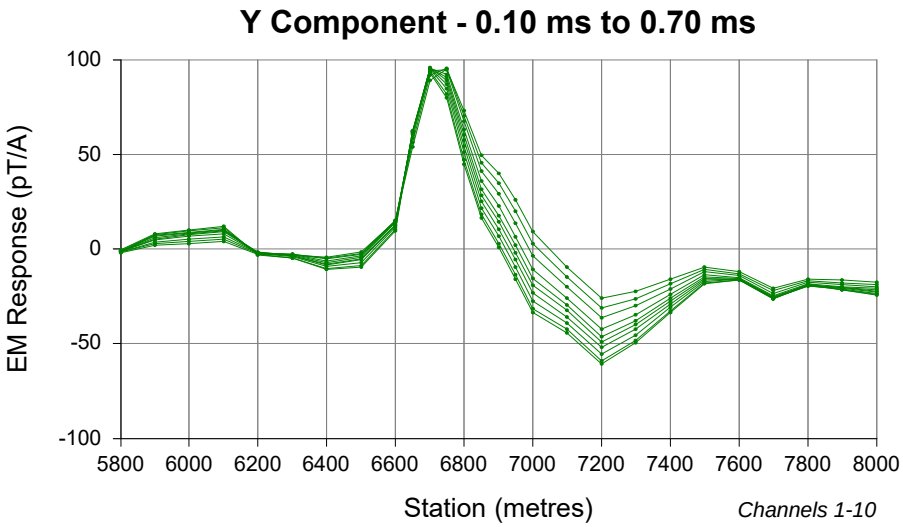

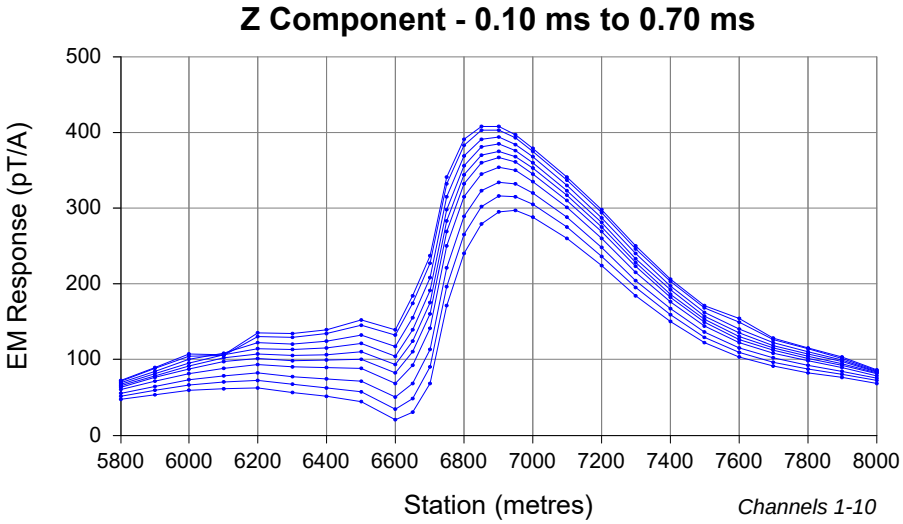

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SURVEY PARAMETERS

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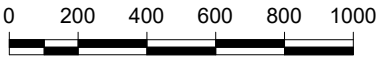

Scale 1:22000

BMC Minerals Ltd.
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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5550E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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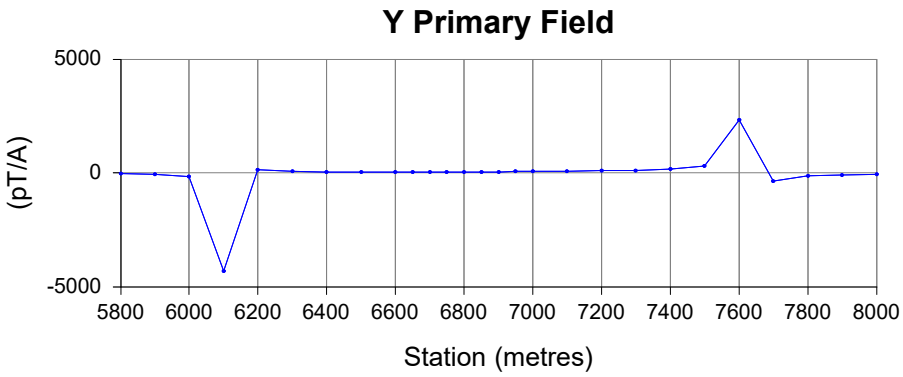

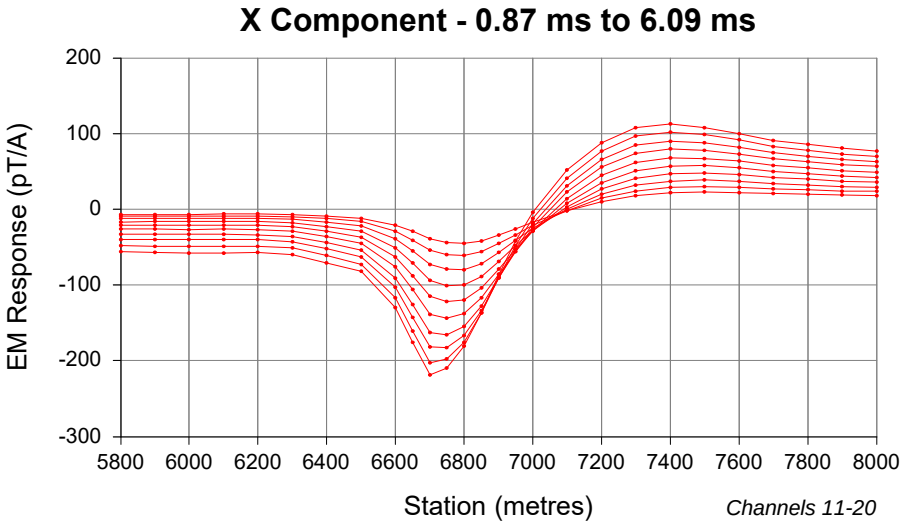

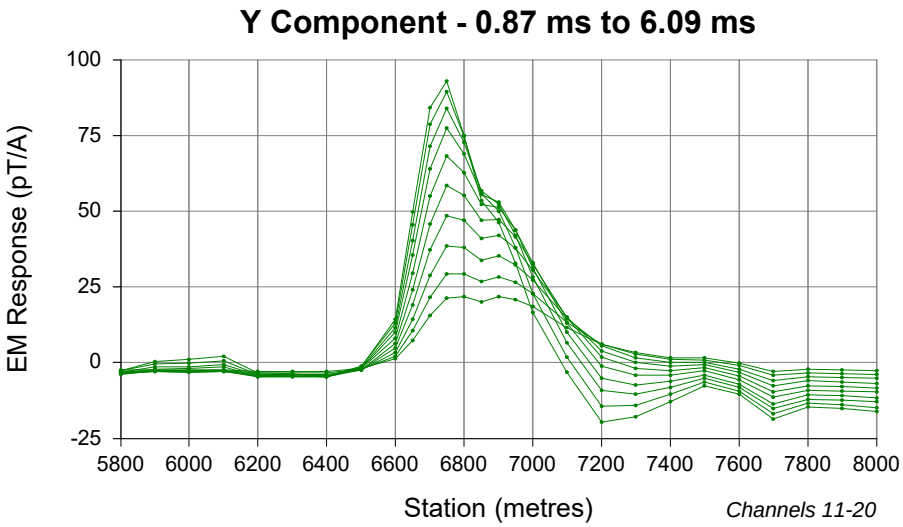

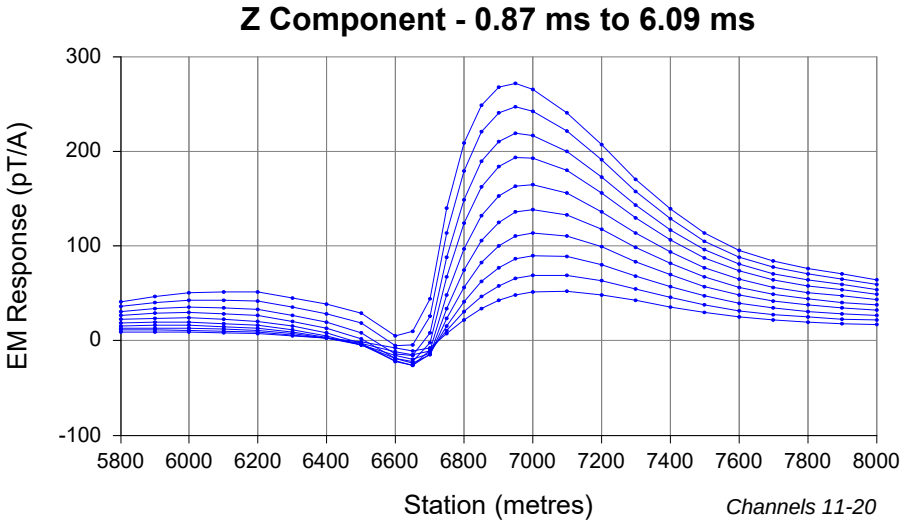

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Station Spacing	: 50-100 m

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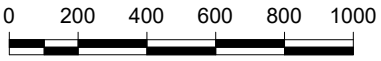

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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5550E - LOOP 1

Surveyed By: Connor Harrison
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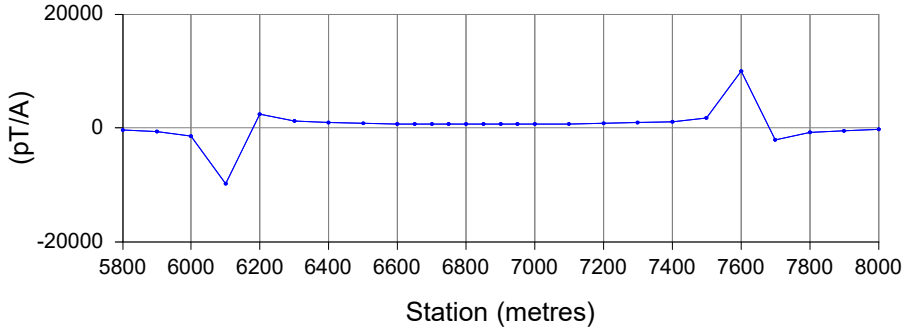
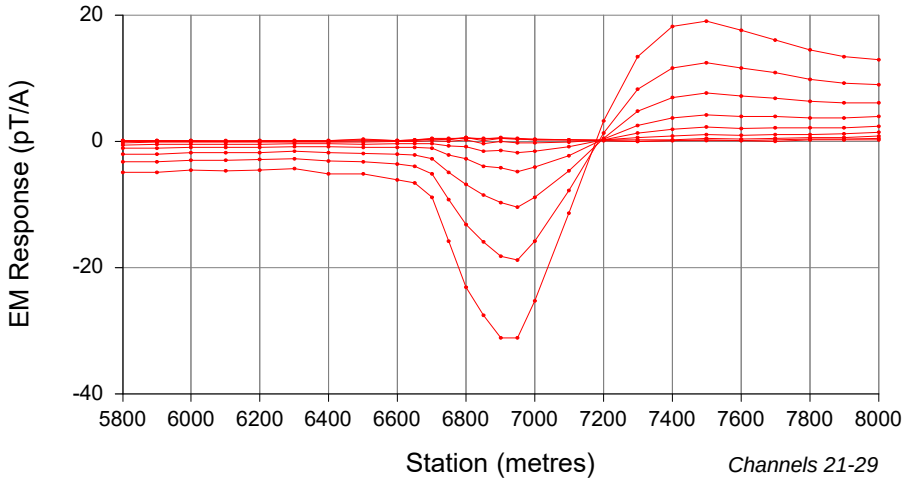
Z Primary Field



X Component - 7.56 ms to 42.68 ms



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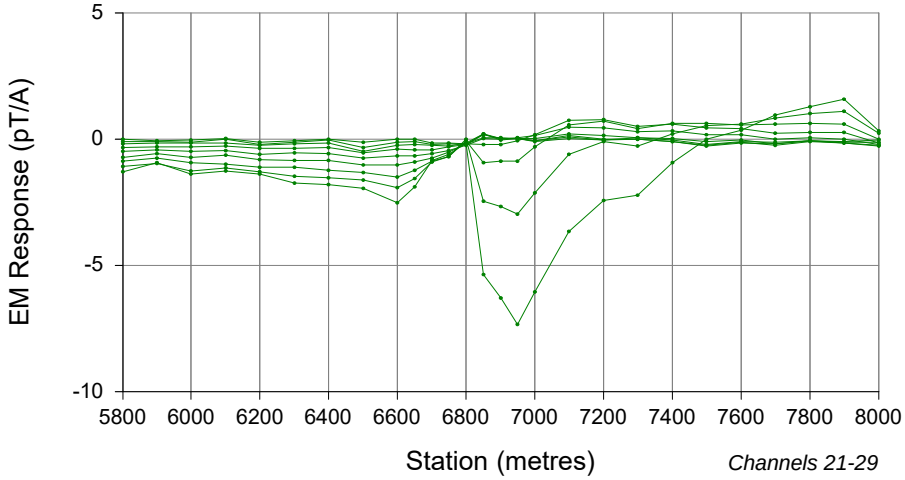

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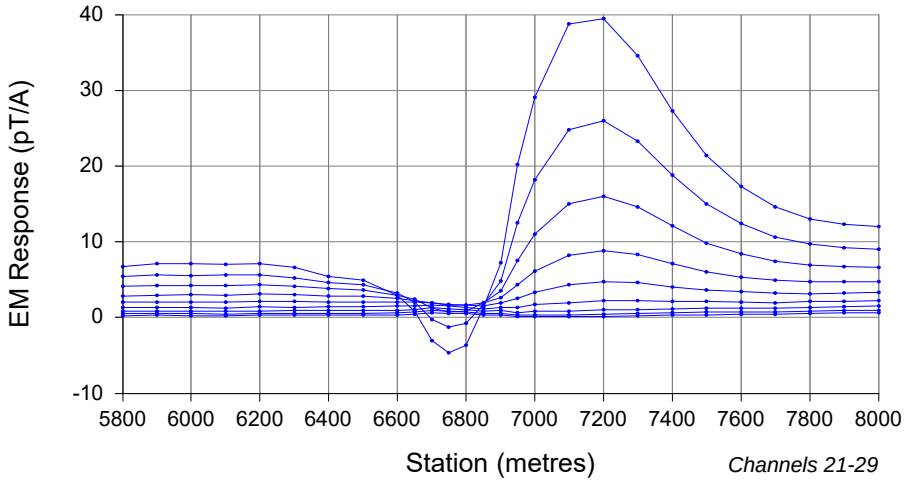

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Station Spacing	: 50-100 m

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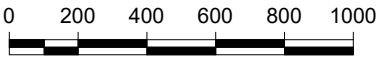

Scale 1:22000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5550E - LOOP 1

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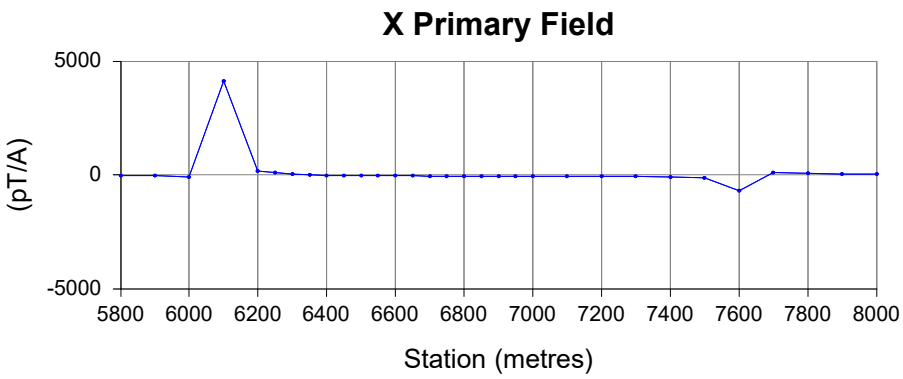

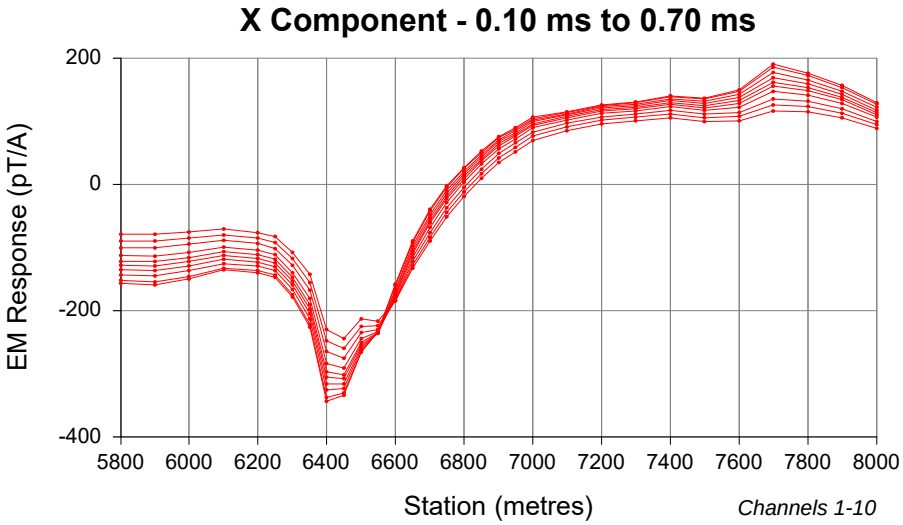

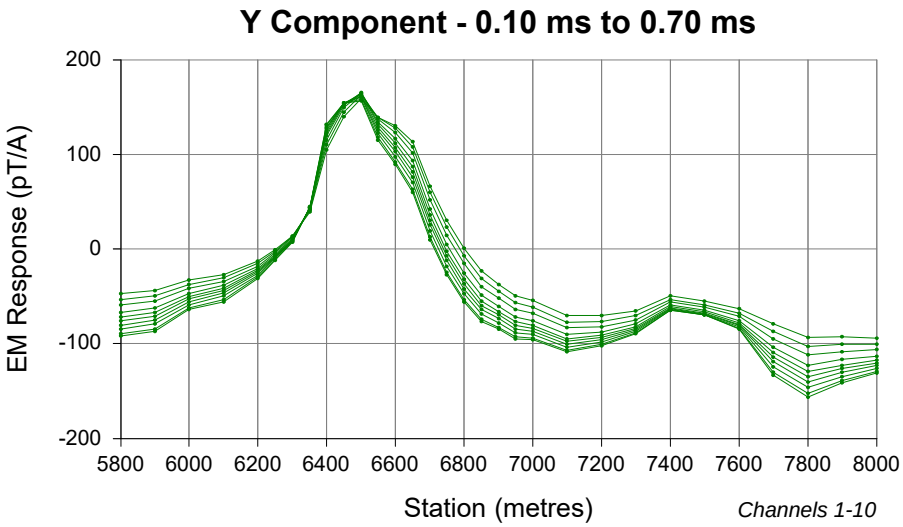

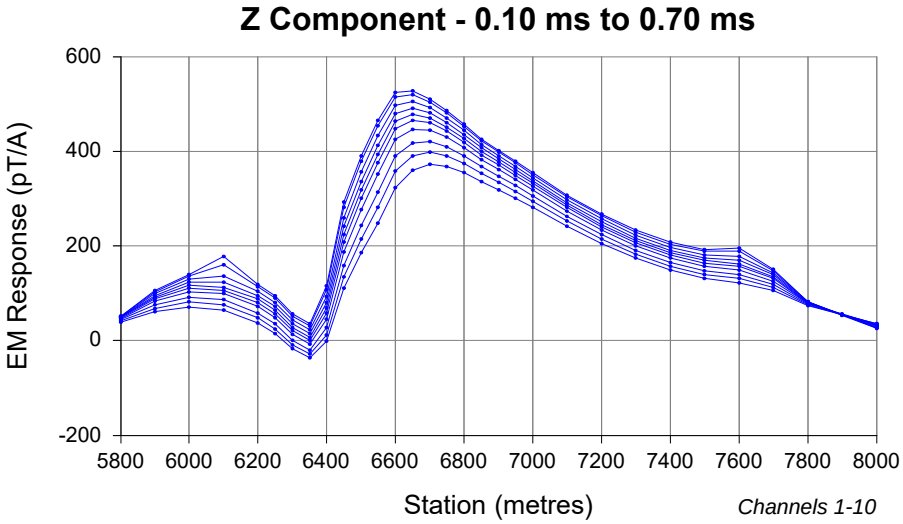

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
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9	: 0.5645	24	: 14.47
10	: 0.7005	25	: 17.97
11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

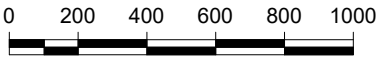
Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:22000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5850E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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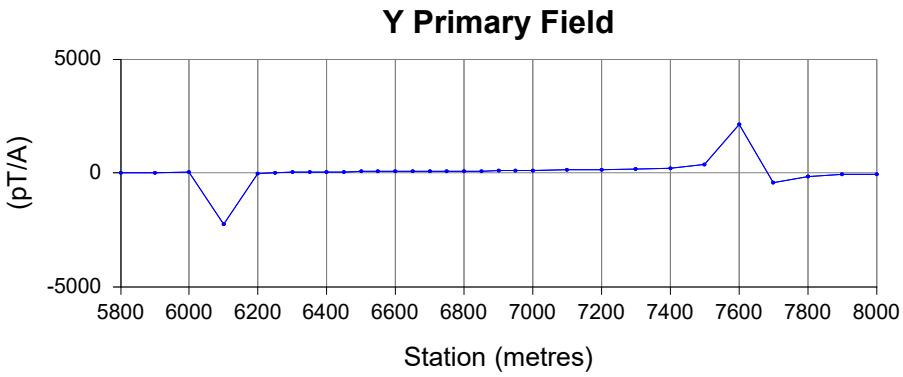

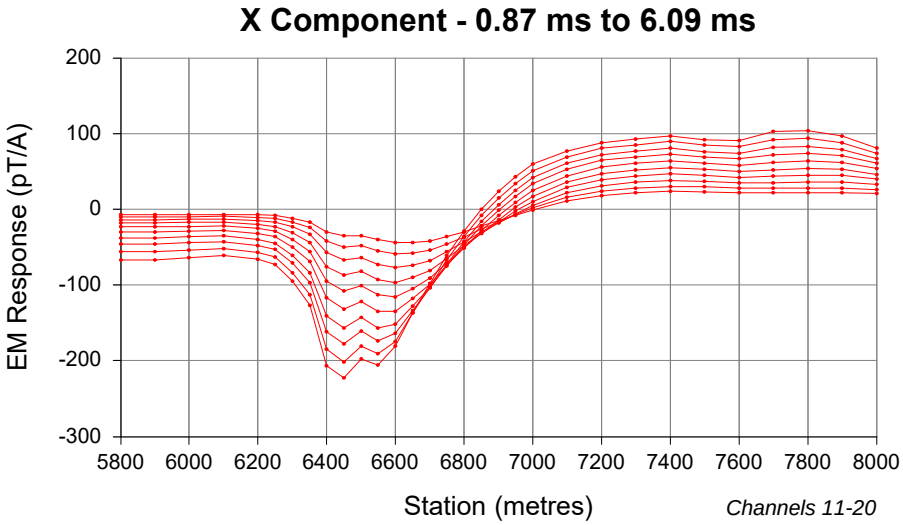

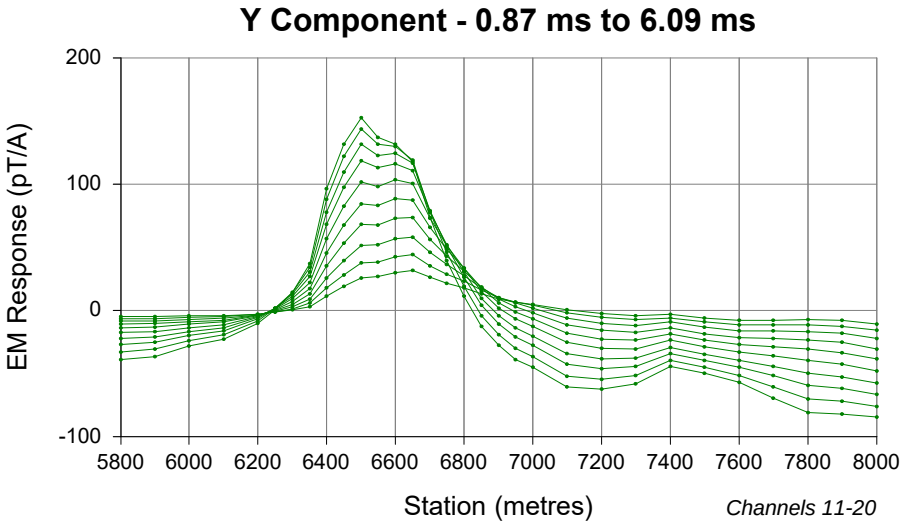

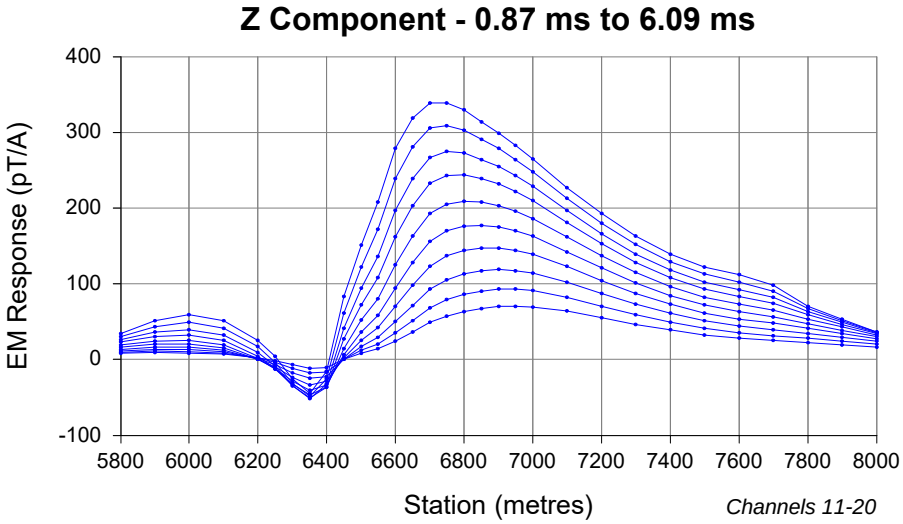

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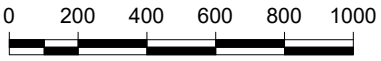

Scale 1:22000

BMC Minerals Ltd.
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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5850E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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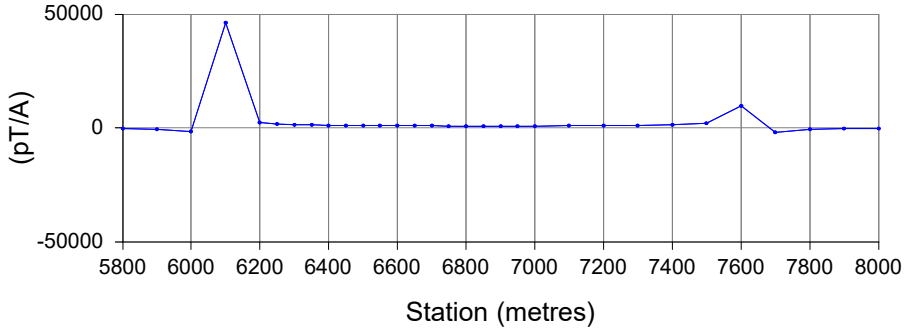
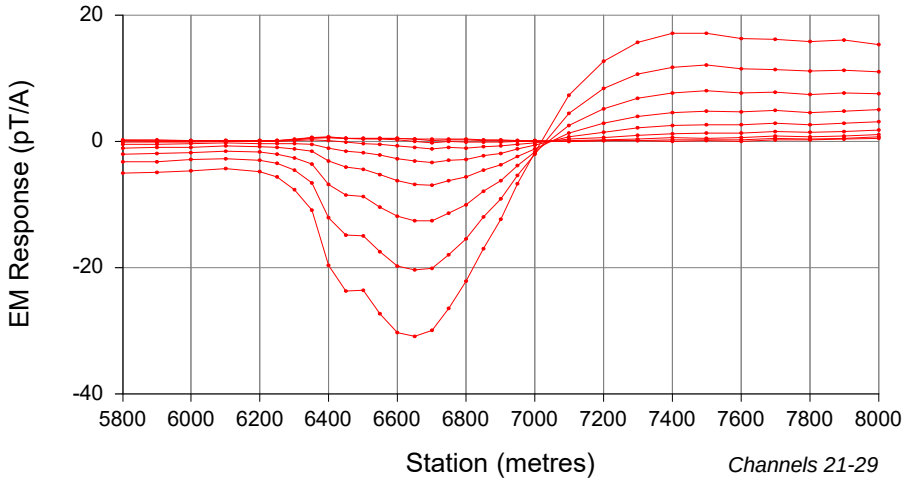
Z Primary Field



X Component - 7.56 ms to 42.68 ms



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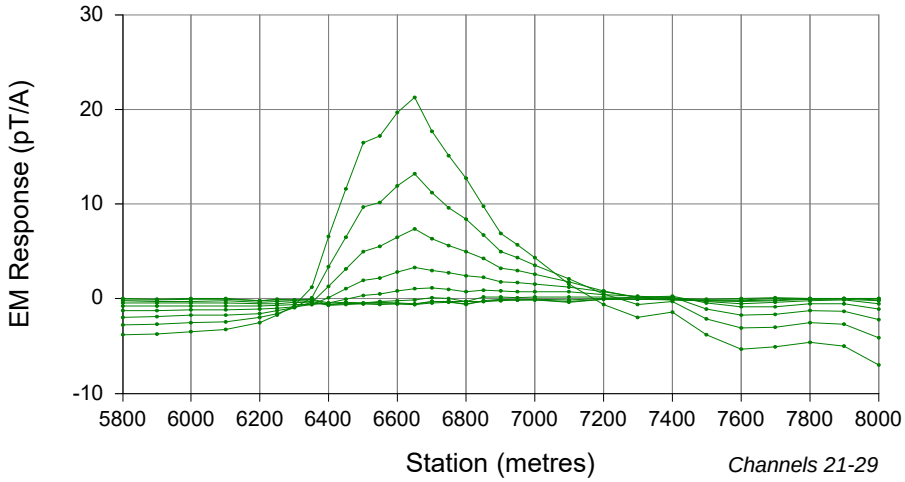
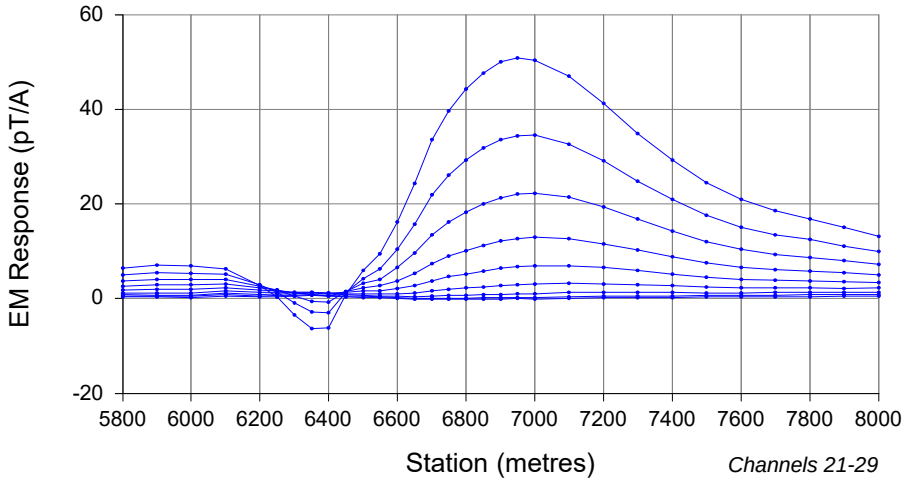


Z Component - 7.56 ms to 42.68 ms



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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

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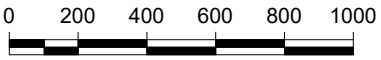

Scale 1:22000

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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5850E - LOOP 1

Surveyed By: Connor Harrison
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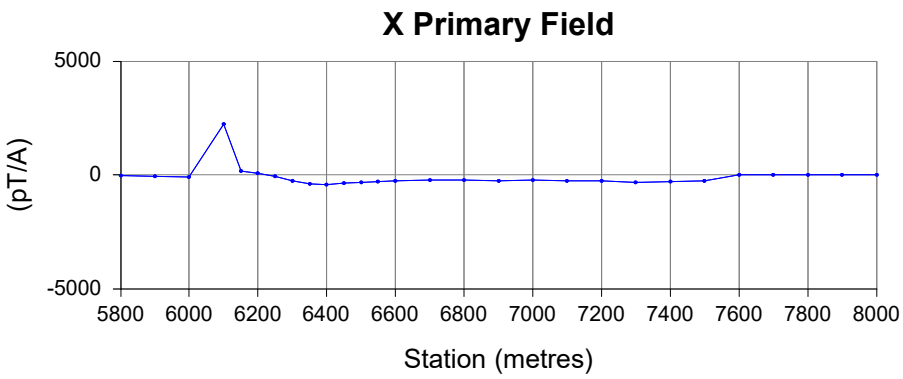

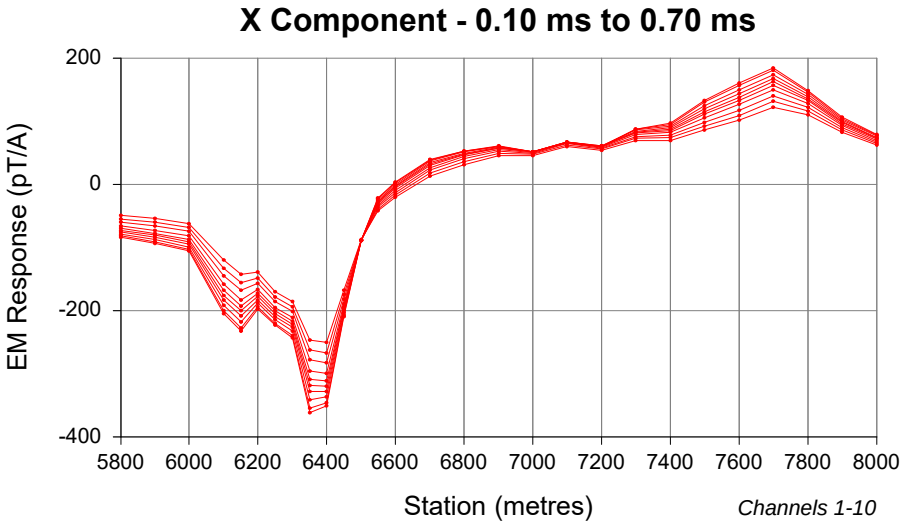

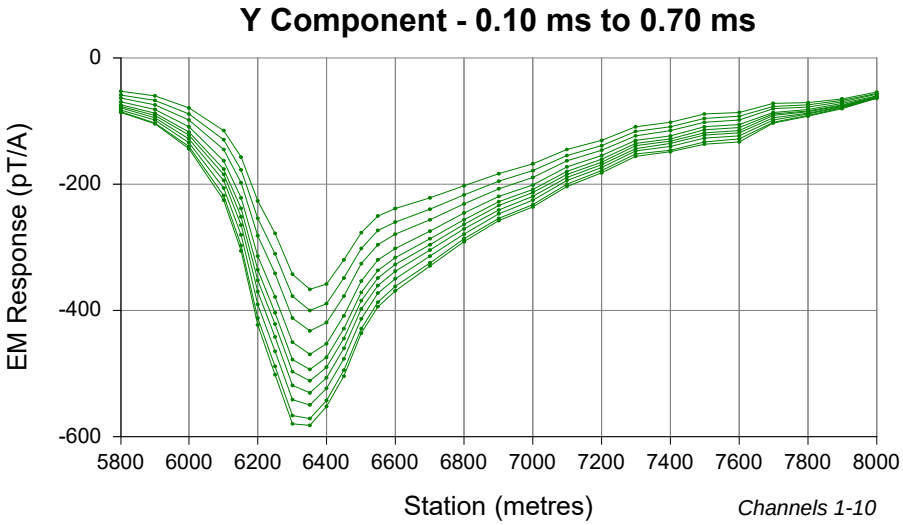

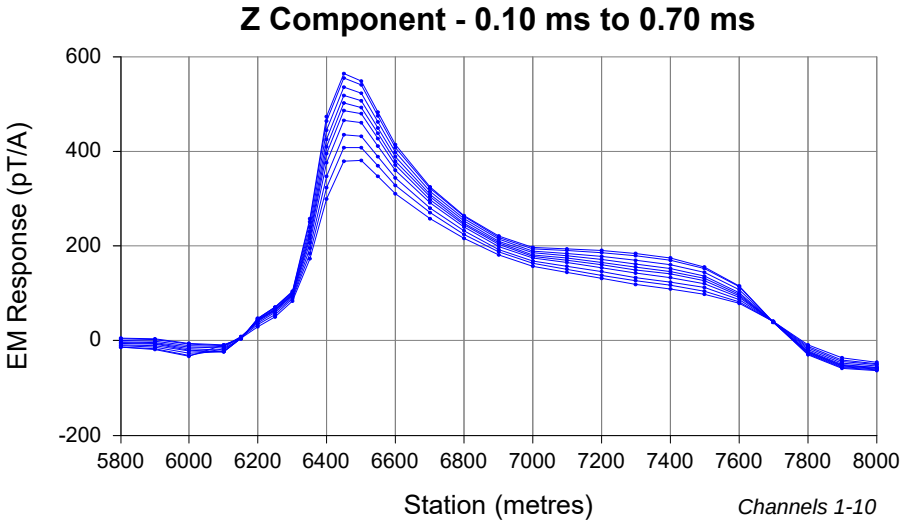

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
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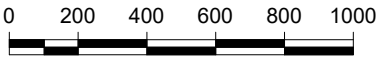

Scale 1:22000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L6150E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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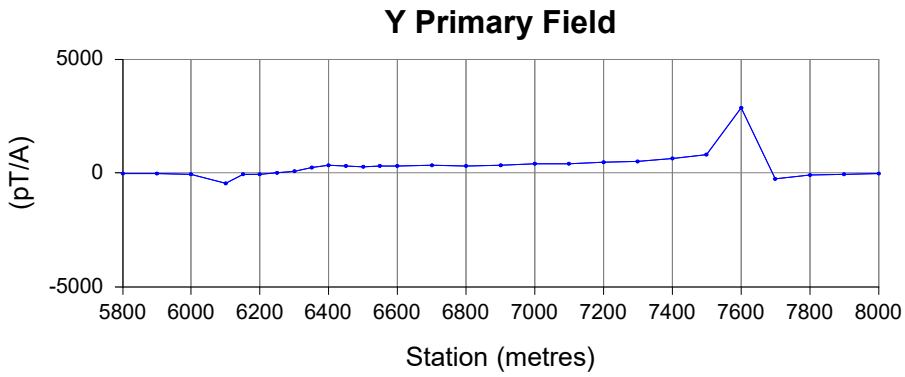

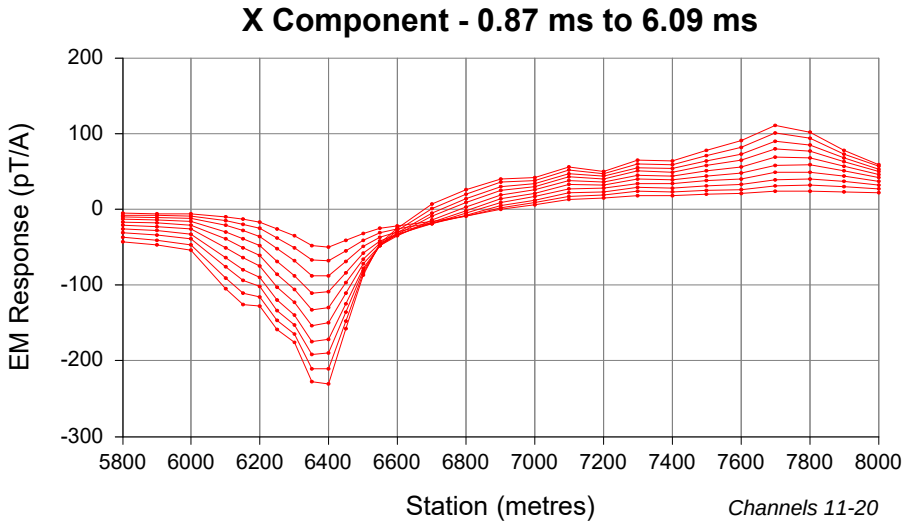

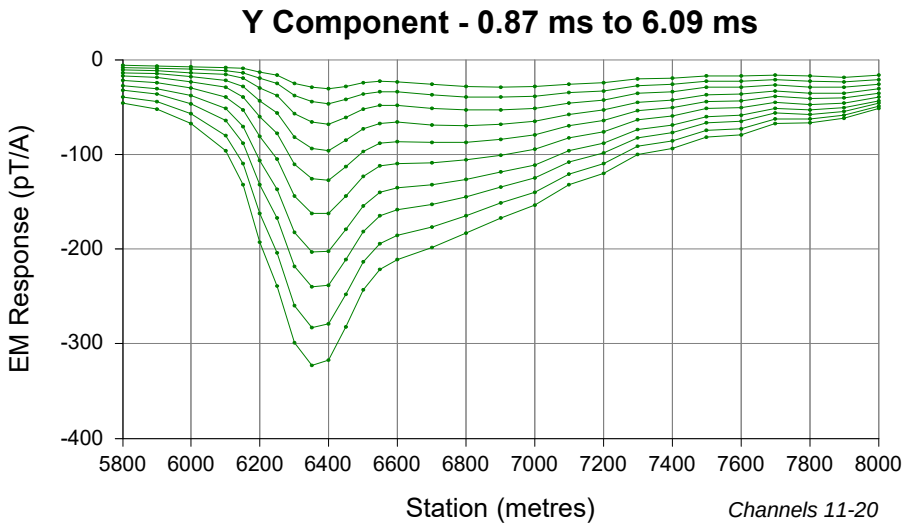

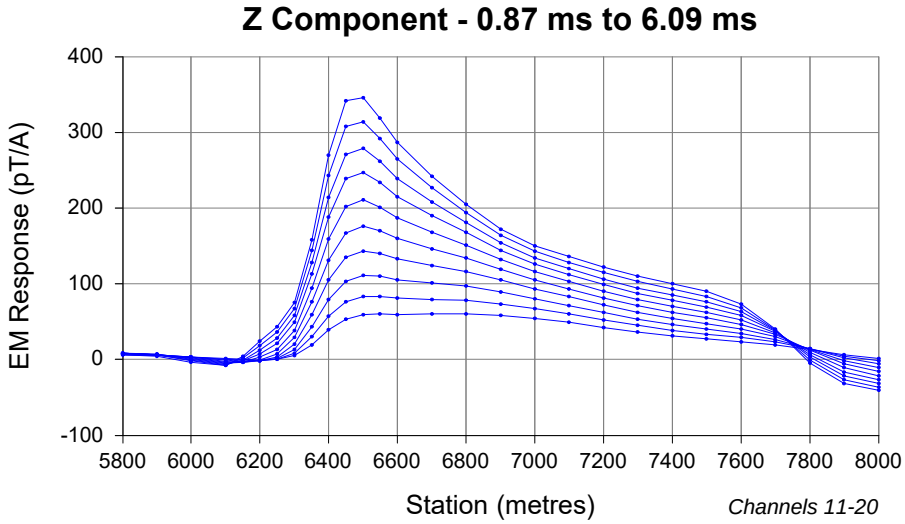

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From the end of the Turn-Off Ramp

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

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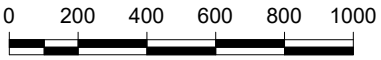

Scale 1:22000

BMC Minerals Ltd.
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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L6150E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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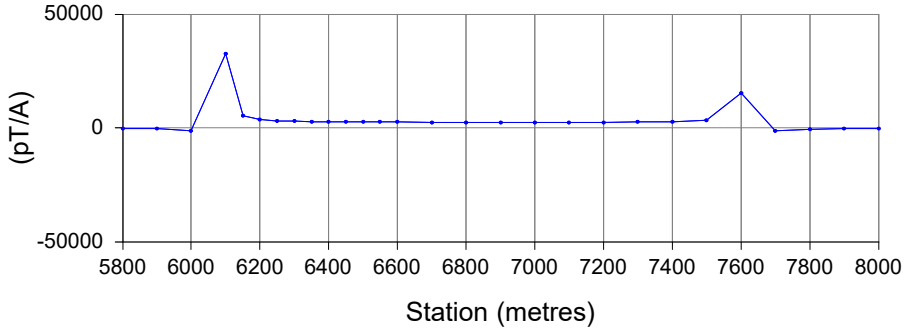
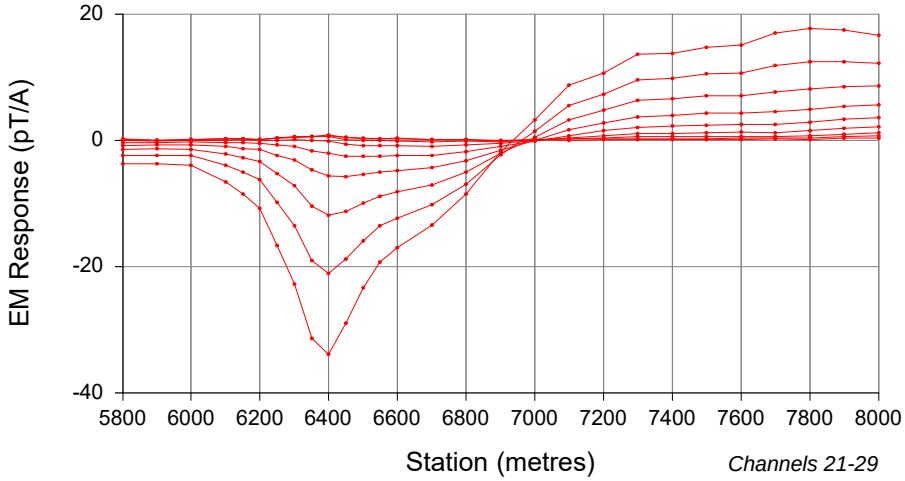
Z Primary Field



X Component - 7.56 ms to 42.68 ms



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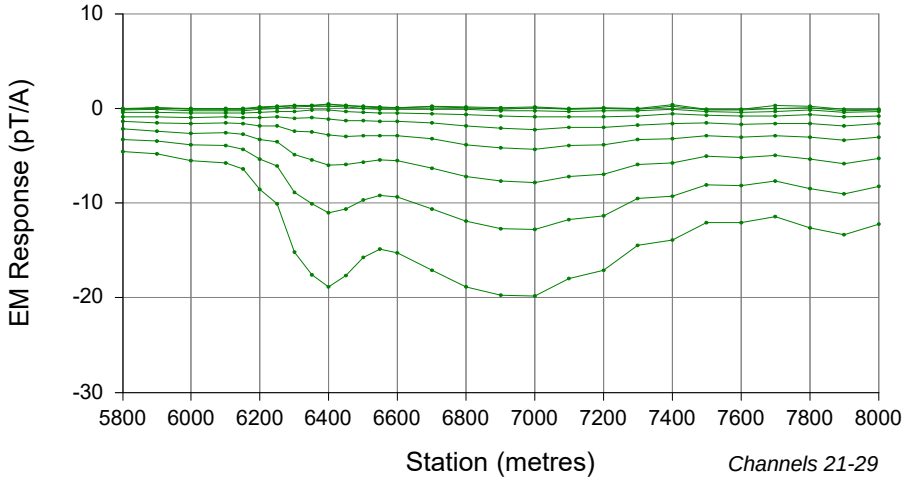

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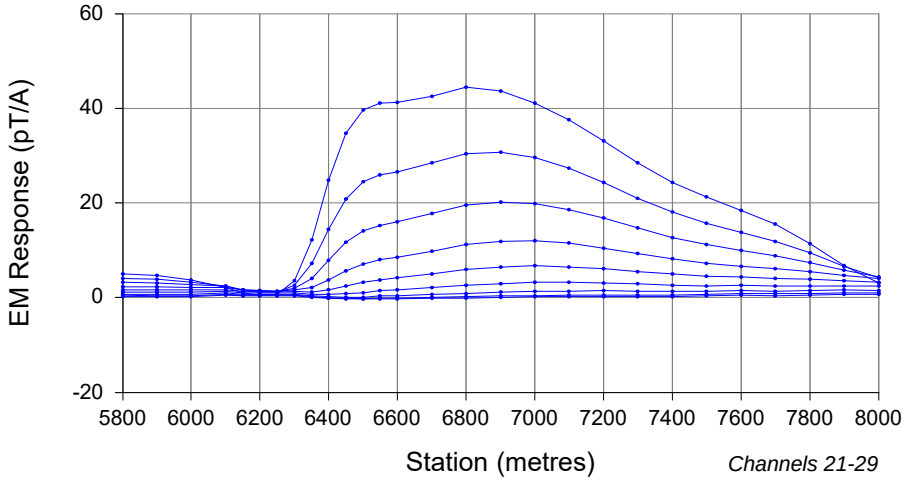

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 50-100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
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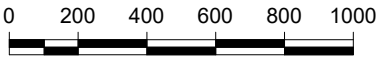

Scale 1:22000

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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L6150E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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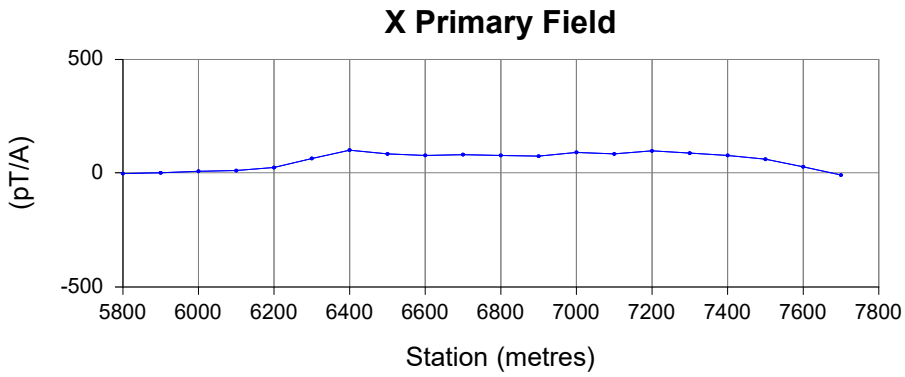

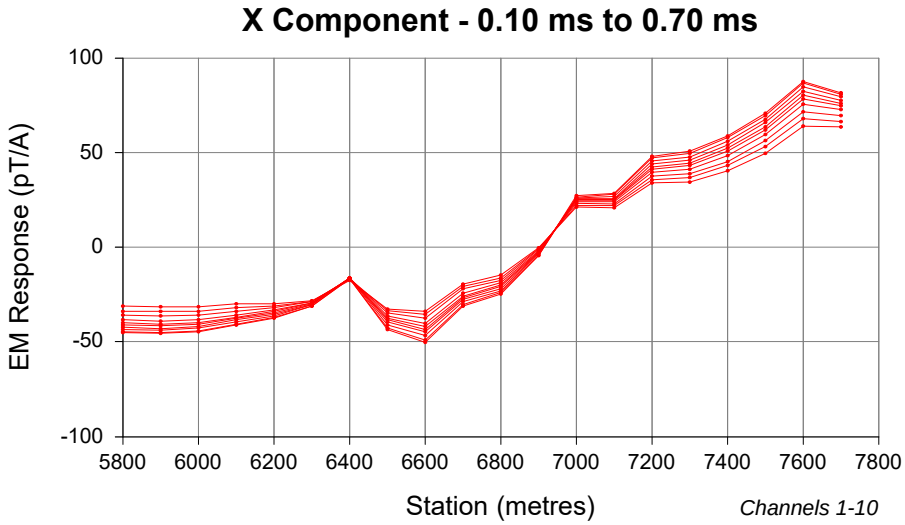

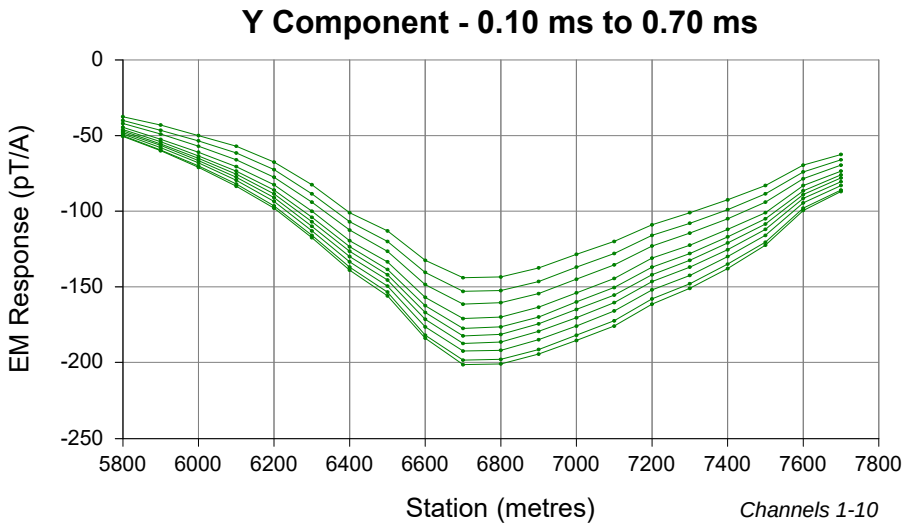

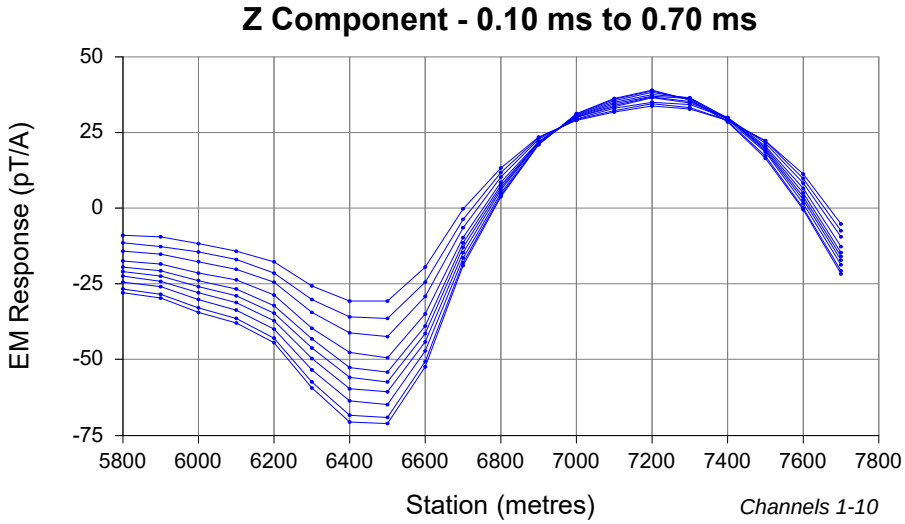

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SURVEY PARAMETERS

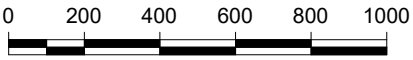
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:20000

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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L6450E - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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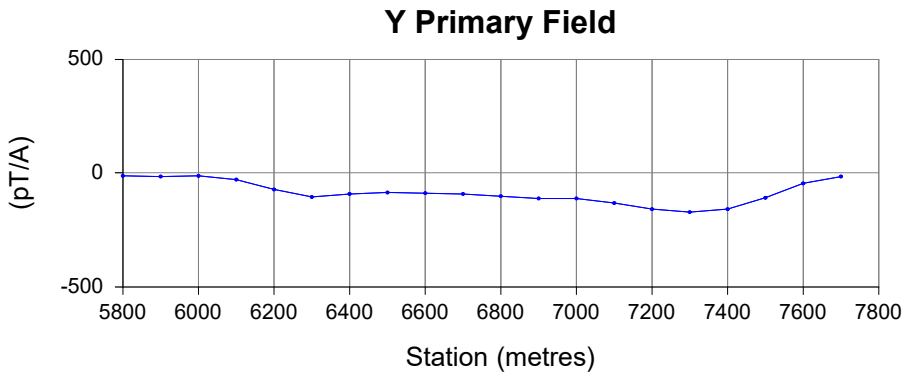
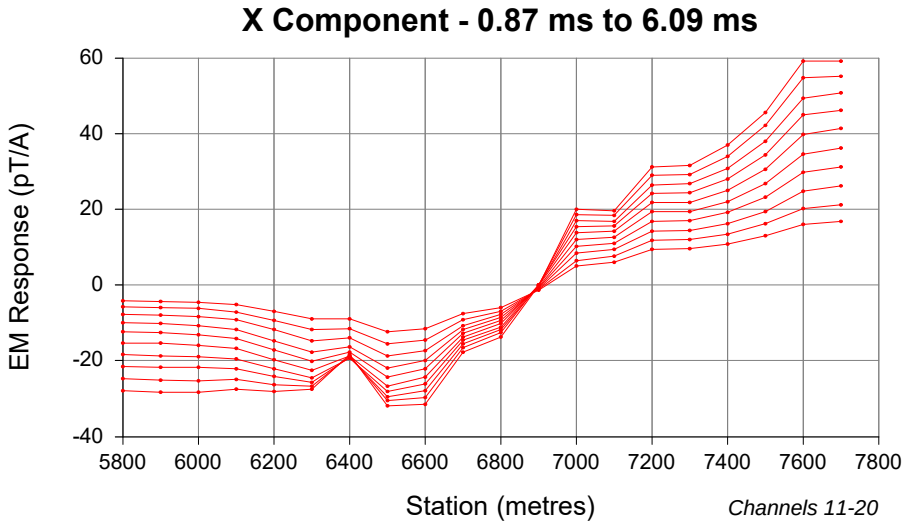
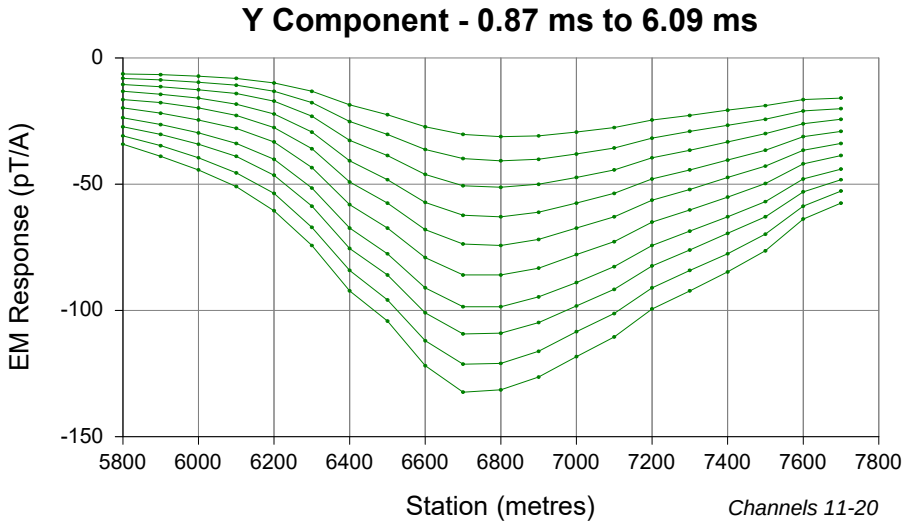
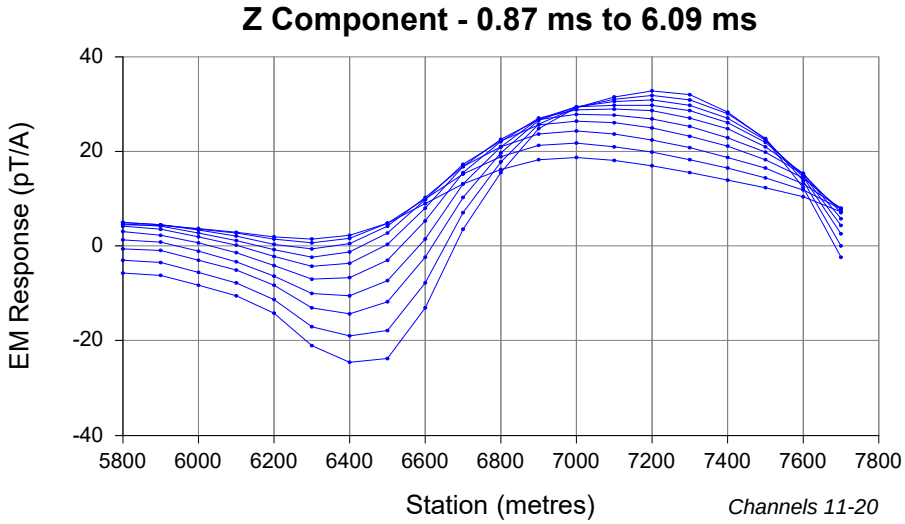








WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
8	: 0.4545	23	: 11.66
9	: 0.5645	24	: 14.47
10	: 0.7005	25	: 17.97
11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

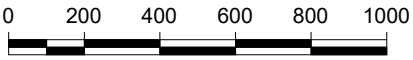
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:20000

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EMIT SMART Fluxgate
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L6450E - LOOP 1

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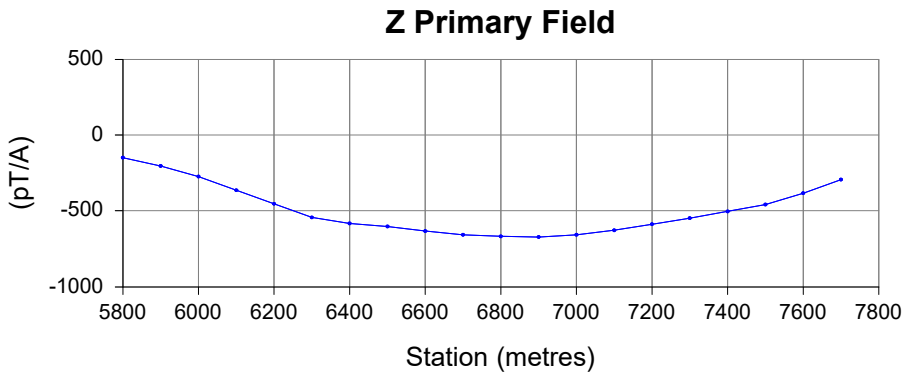

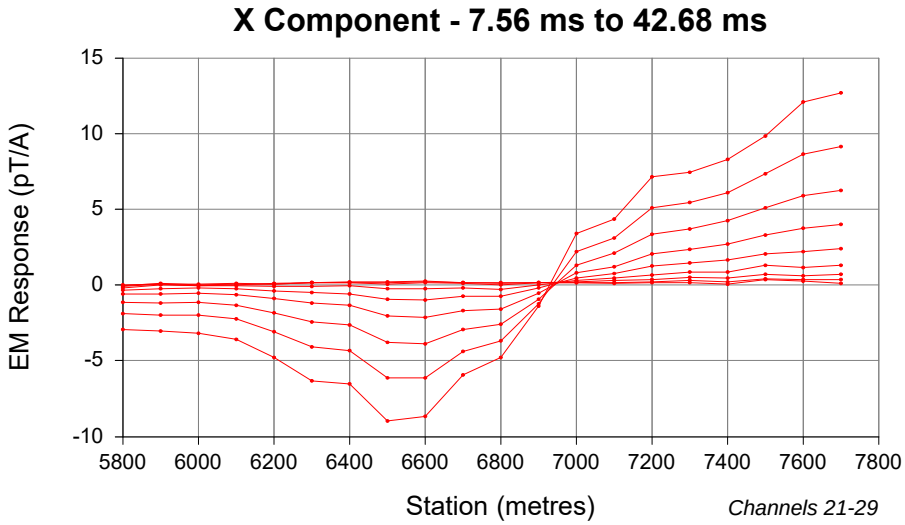

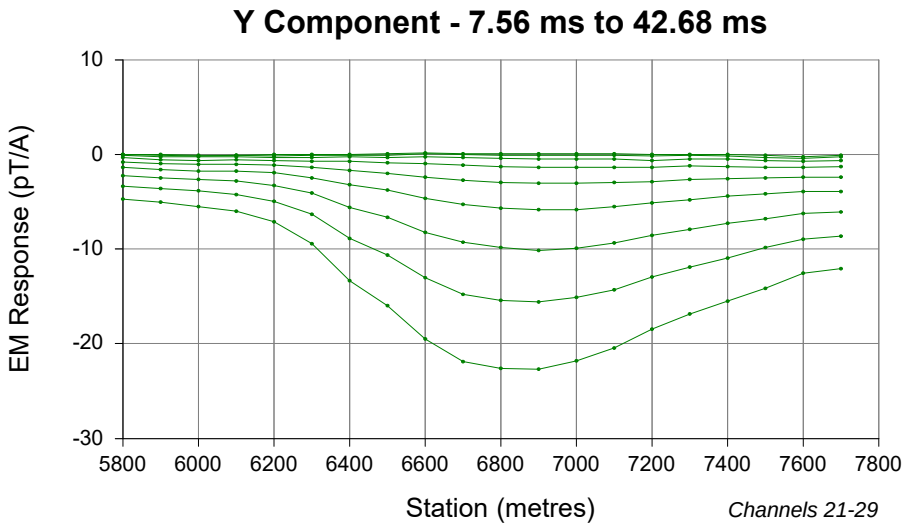

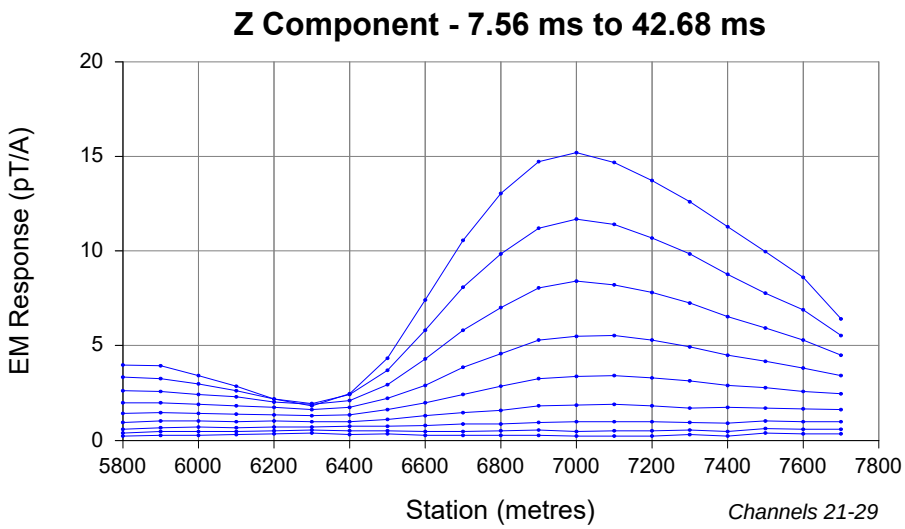

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
8	: 0.4545	23	: 11.66
9	: 0.5645	24	: 14.47
10	: 0.7005	25	: 17.97
11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
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15	: 2.066		

SURVEY PARAMETERS

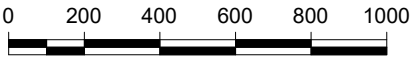
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:20000

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APPENDIX D – FIXED-LOOP TEM PROFILES – LOOP 2

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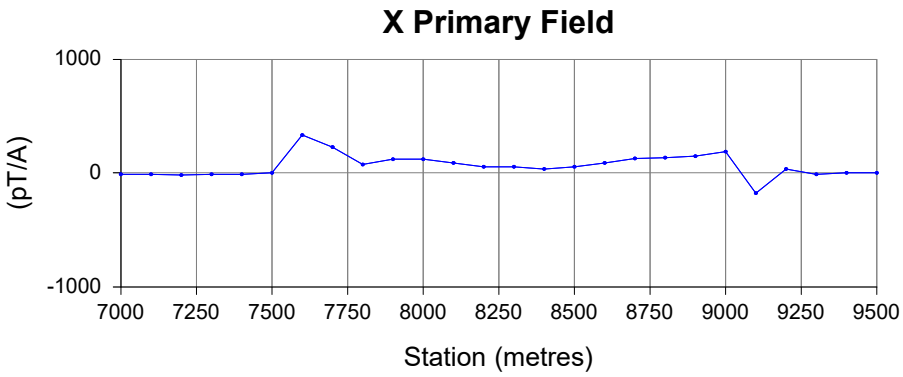
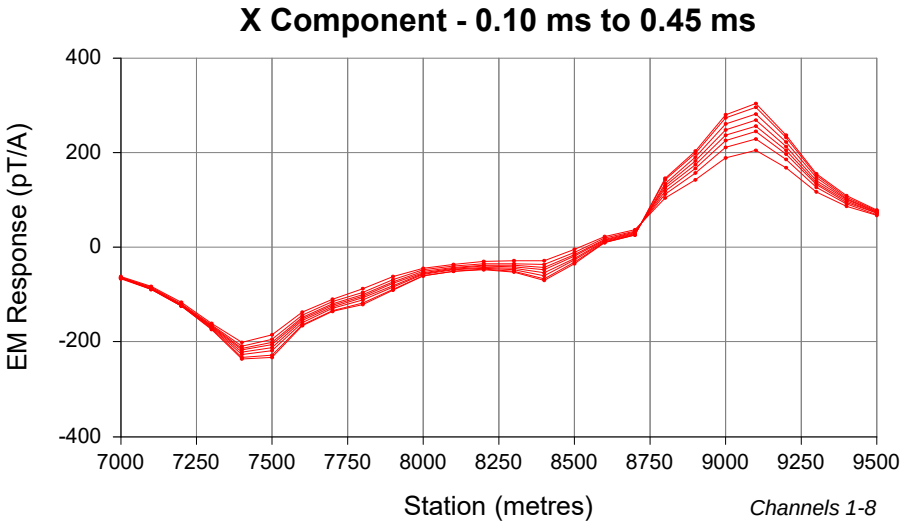
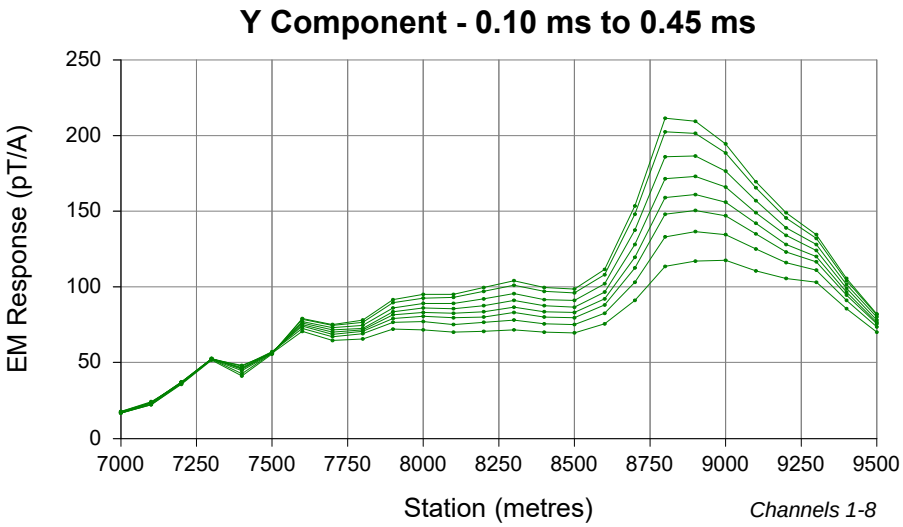
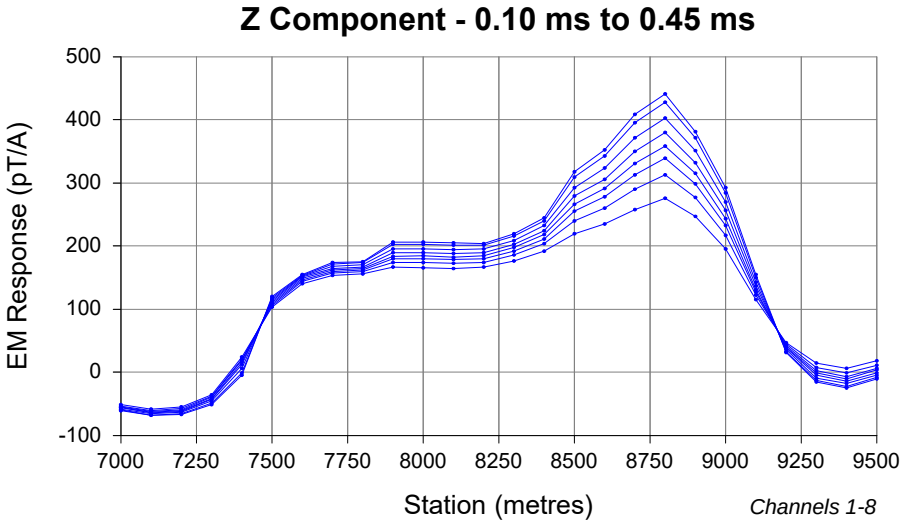








WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	17	: 3.184
2	: 0.1245	18	: 3.953
3	: 0.1540	19	: 4.908
4	: 0.1910	20	: 6.093
5	: 0.2375	21	: 7.564
6	: 0.2950	22	: 9.390
7	: 0.3660	23	: 11.66
8	: 0.4545	24	: 14.47
9	: 0.5645	25	: 17.97
10	: 0.7005	26	: 22.31
11	: 0.8695	27	: 27.69
12	: 1.080	28	: 34.38
13	: 1.341	29	: 42.68
14	: 1.664	30	: 52.99
15	: 2.066	31	: 65.79
16	: 2.565	32	: 81.67

SURVEY PARAMETERS

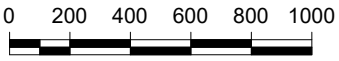
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

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L4050E - LOOP 2

Surveyed By: Connor Harrison
Survey Date: September 2017

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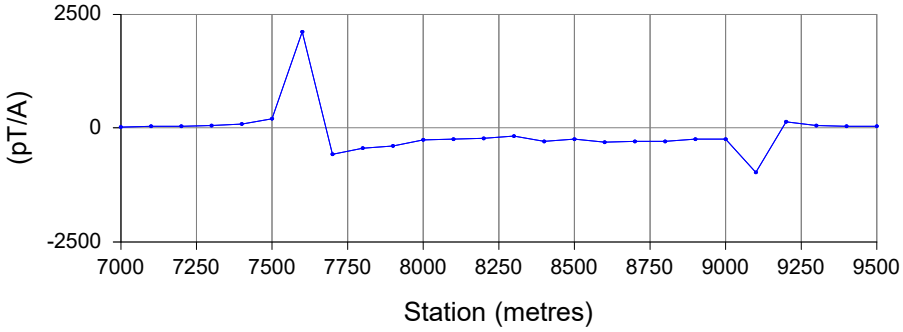
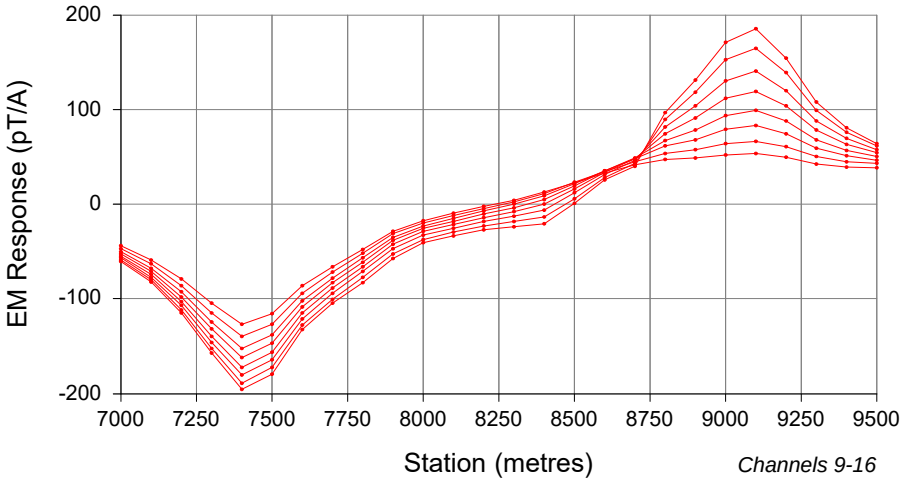
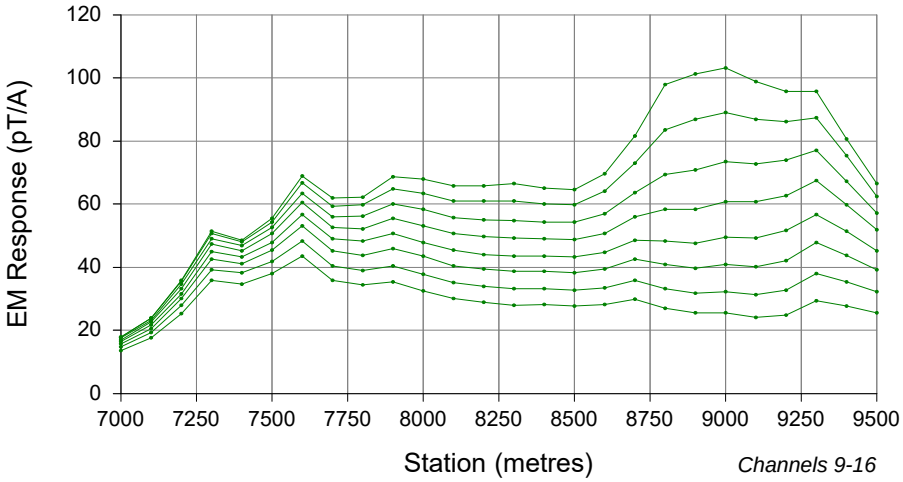
Y Primary Field



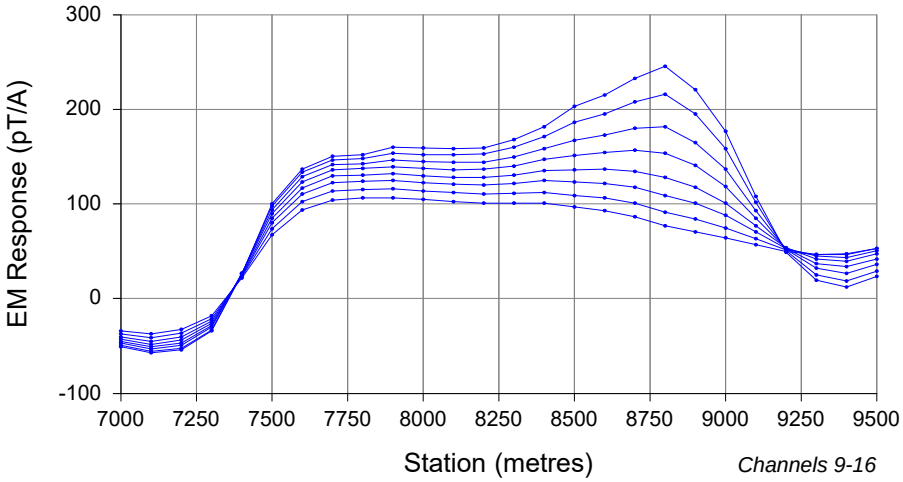
X Component - 0.56 ms to 2.57 ms



Y Component - 0.56 ms to 2.57 ms



Z Component - 0.56 ms to 2.57 ms



WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	17	: 3.184
2	: 0.1245	18	: 3.953
3	: 0.1540	19	: 4.908
4	: 0.1910	20	: 6.093
5	: 0.2375	21	: 7.564
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13	: 1.341	29	: 42.68
14	: 1.664	30	: 52.99
15	: 2.066	31	: 65.79
16	: 2.565	32	: 81.67

SURVEY PARAMETERS

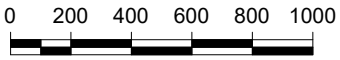
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

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Fixed-Loop TEM Survey
L4050E - LOOP 2

Surveyed By: Connor Harrison
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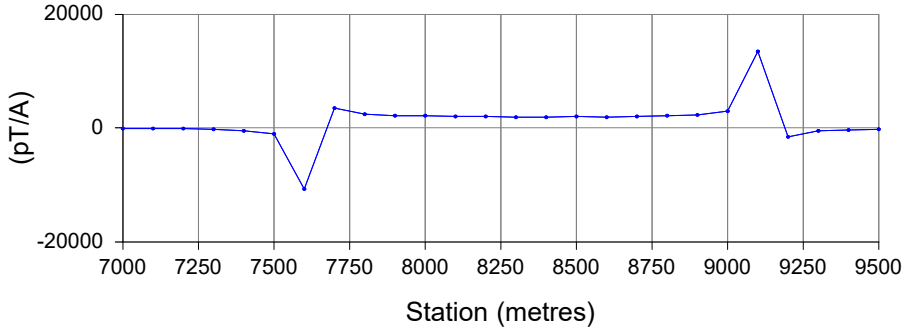
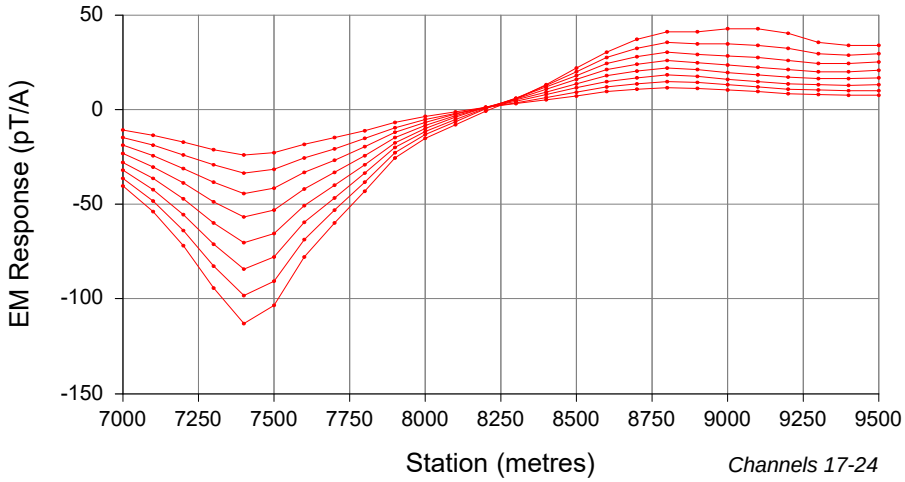
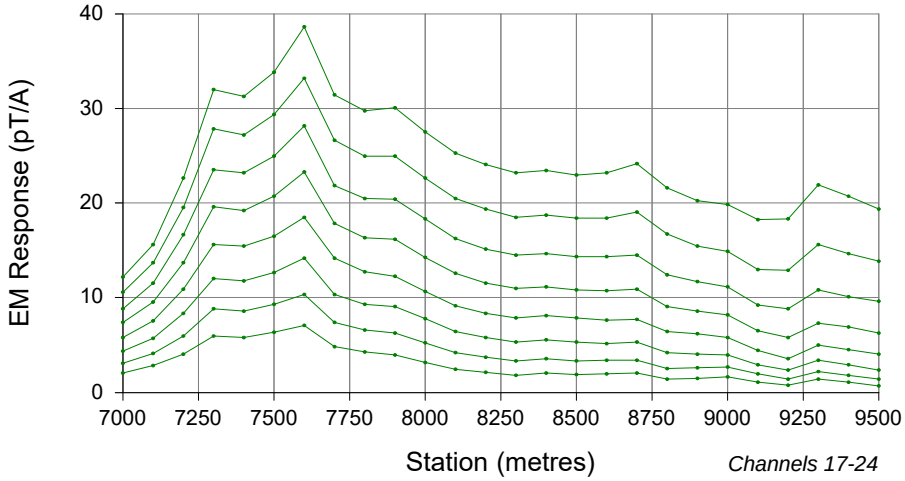
Z Primary Field



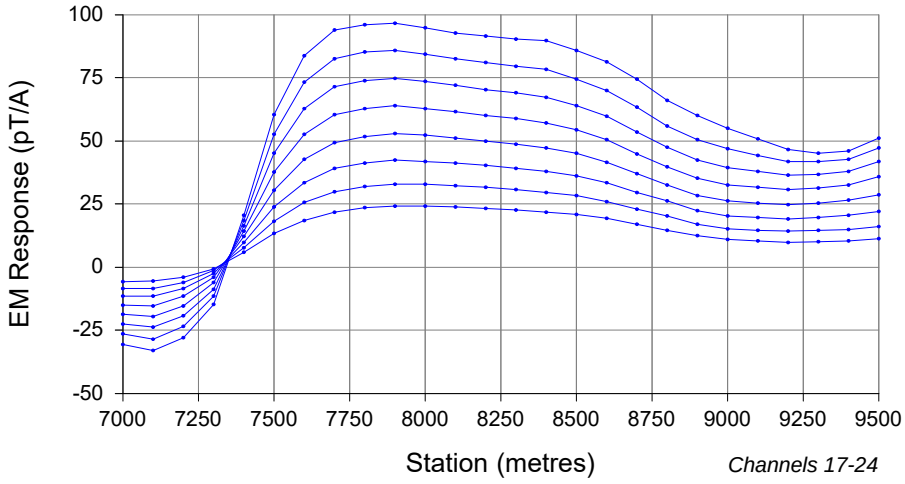
X Component - 3.18 ms to 14.47 ms



Y Component - 3.18 ms to 14.47 ms



Z Component - 3.18 ms to 14.47 ms



WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	17	: 3.184
2	: 0.1245	18	: 3.953
3	: 0.1540	19	: 4.908
4	: 0.1910	20	: 6.093
5	: 0.2375	21	: 7.564
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7	: 0.3660	23	: 11.66
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13	: 1.341	29	: 42.68
14	: 1.664	30	: 52.99
15	: 2.066	31	: 65.79
16	: 2.565	32	: 81.67

SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms

0 200 400 600 800 1000

Scale 1:25000

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L4050E - LOOP 2

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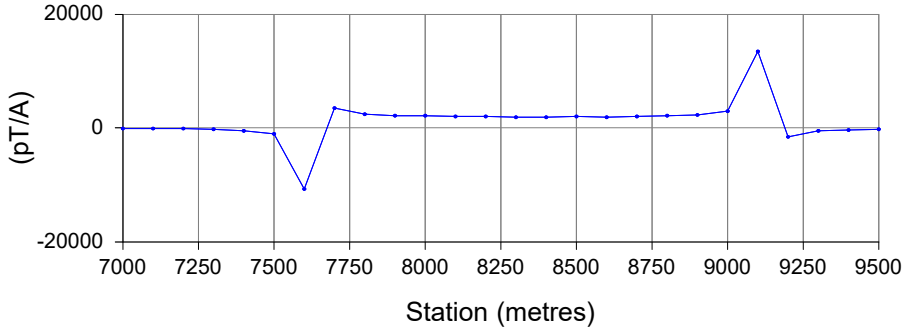
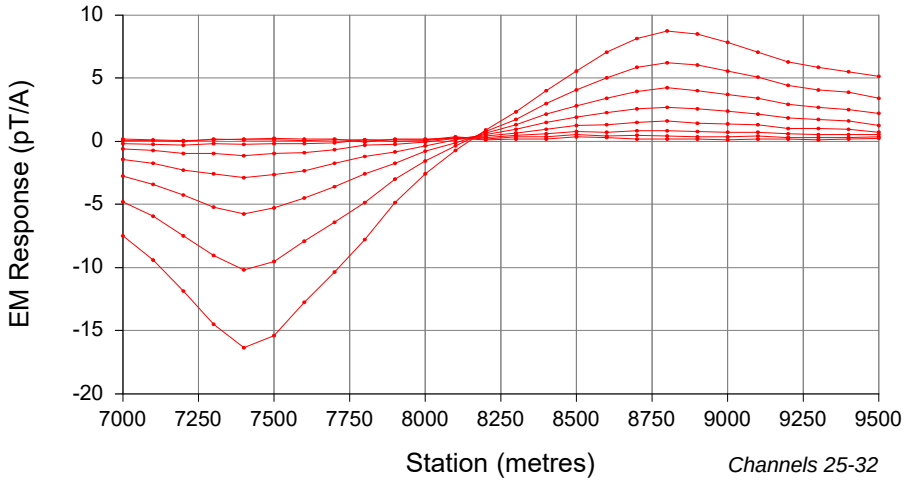
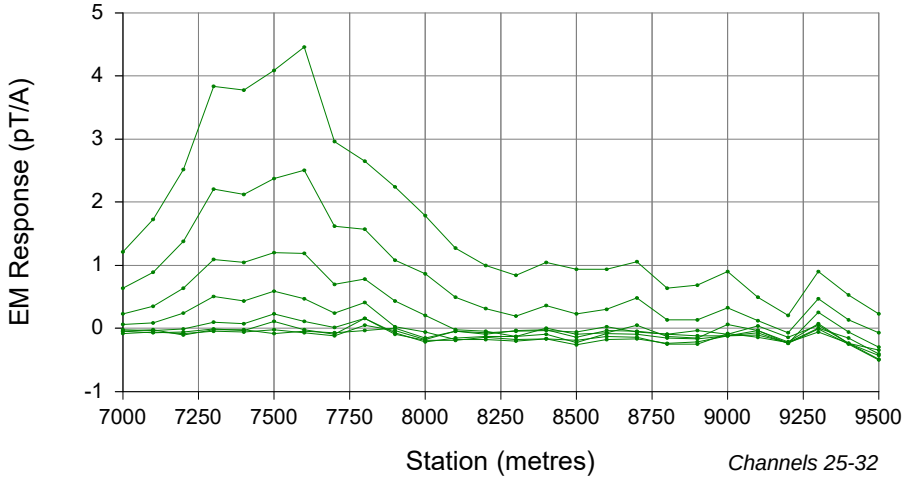
Z Primary Field



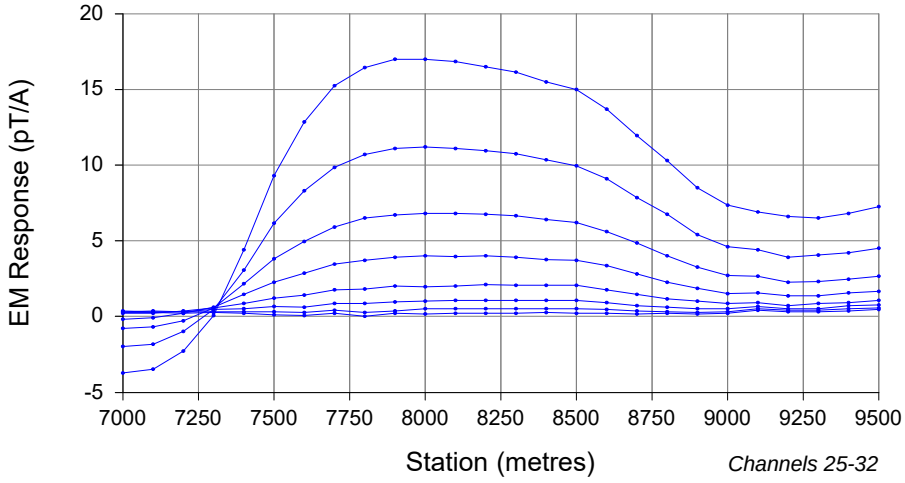
X Component - 17.97 ms to 81.67 ms



Y Component - 17.97 ms to 81.67 ms



Z Component - 17.97 ms to 81.67 ms



WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	17	: 3.184
2	: 0.1245	18	: 3.953
3	: 0.1540	19	: 4.908
4	: 0.1910	20	: 6.093
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13	: 1.341	29	: 42.68
14	: 1.664	30	: 52.99
15	: 2.066	31	: 65.79
16	: 2.565	32	: 81.67

SURVEY PARAMETERS

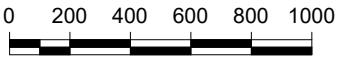
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

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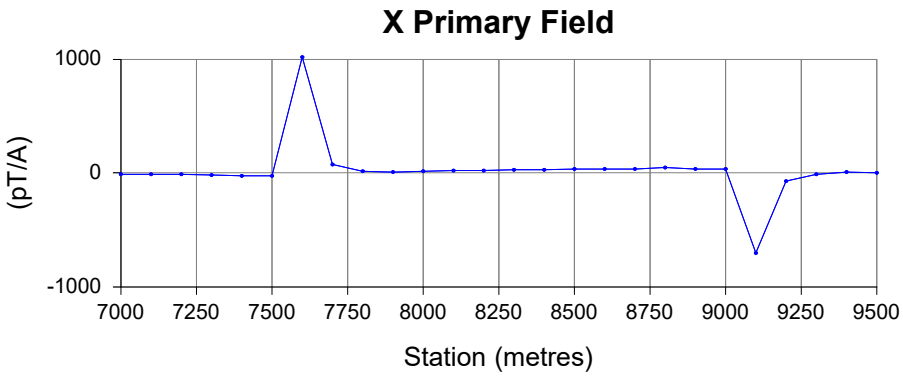
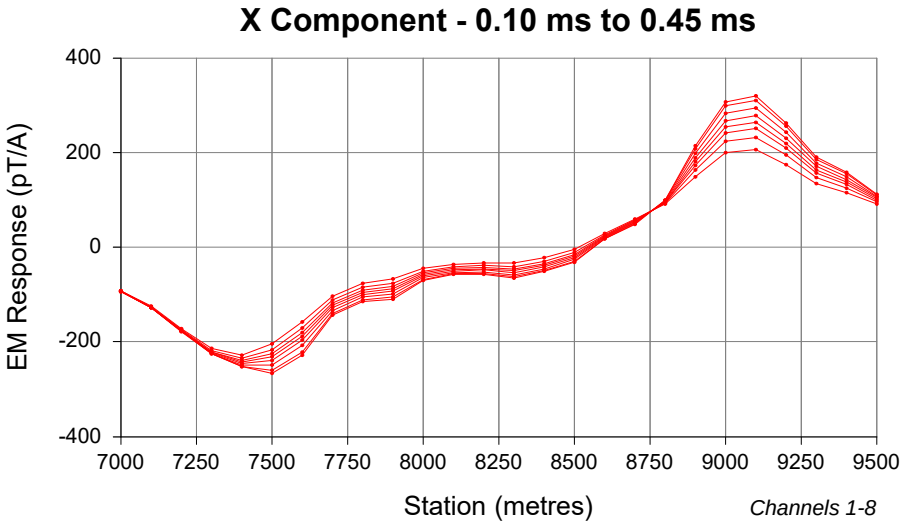
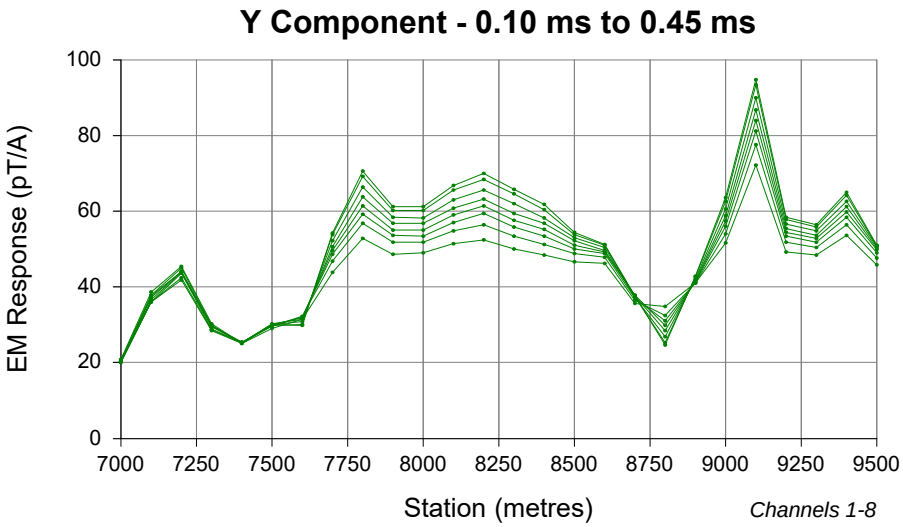
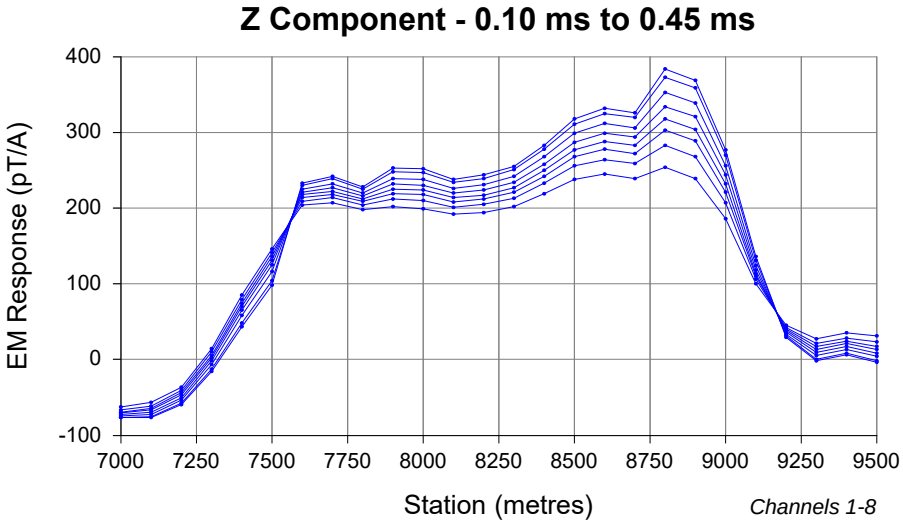








WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	17	: 3.184
2	: 0.1245	18	: 3.953
3	: 0.1540	19	: 4.908
4	: 0.1910	20	: 6.093
5	: 0.2375	21	: 7.564
6	: 0.2950	22	: 9.390
7	: 0.3660	23	: 11.66
8	: 0.4545	24	: 14.47
9	: 0.5645	25	: 17.97
10	: 0.7005	26	: 22.31
11	: 0.8695	27	: 27.69
12	: 1.080	28	: 34.38
13	: 1.341	29	: 42.68
14	: 1.664	30	: 52.99
15	: 2.066	31	: 65.79
16	: 2.565	32	: 81.67

SURVEY PARAMETERS

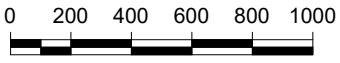
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

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Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4350E - LOOP 2

Surveyed By: Connor Harrison
Survey Date: September 2017

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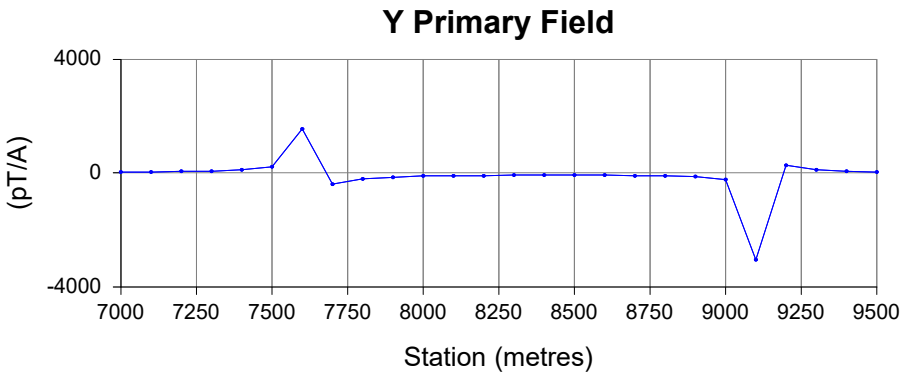

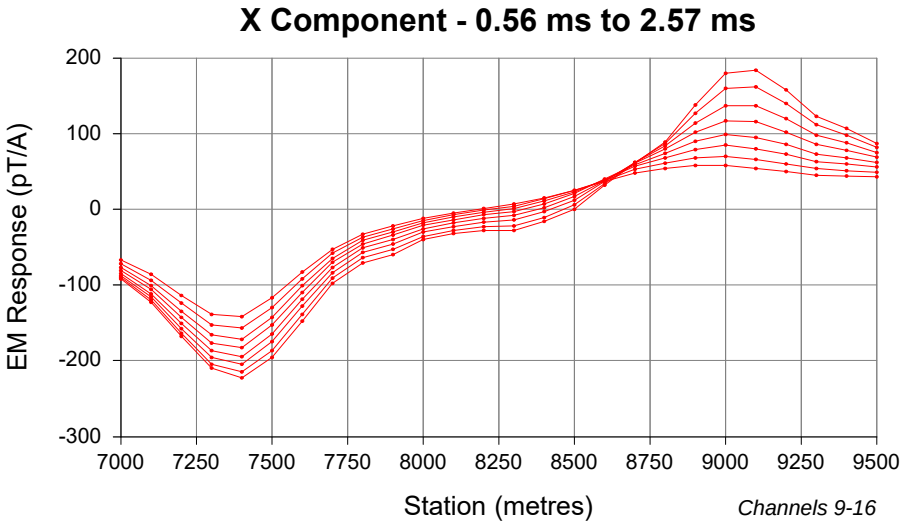

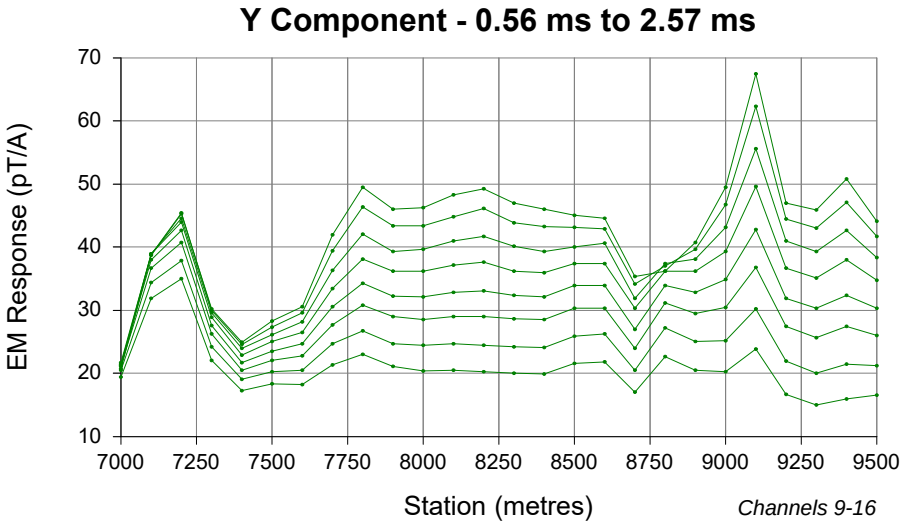

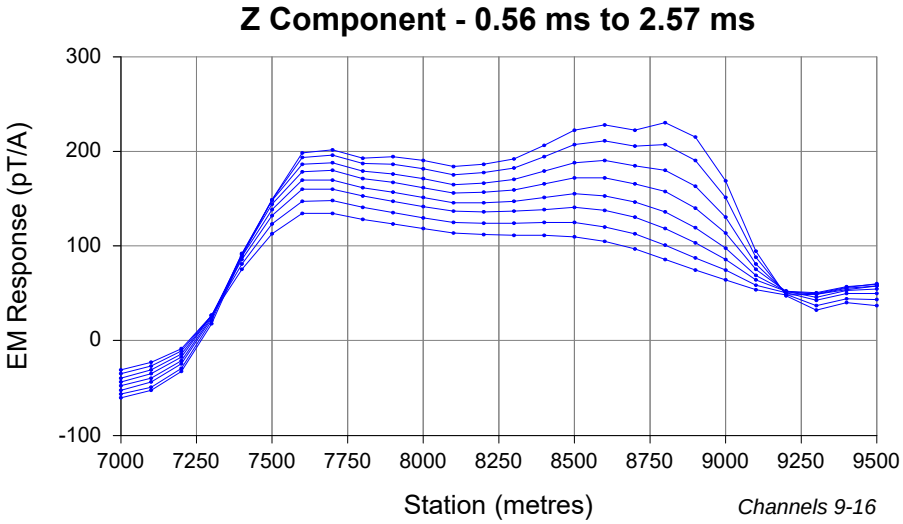

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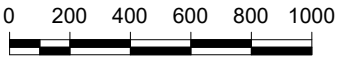

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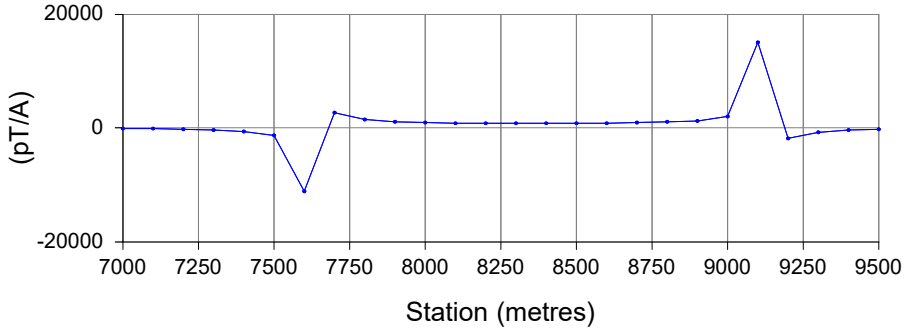
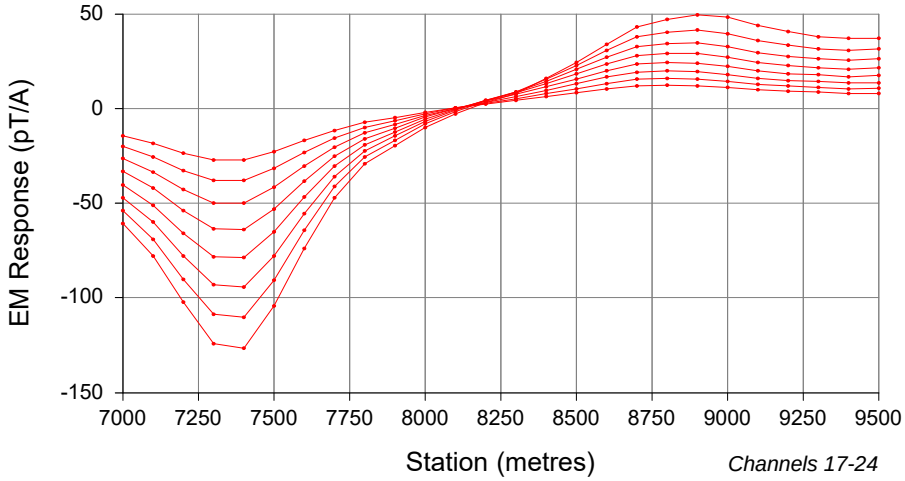
Z Primary Field

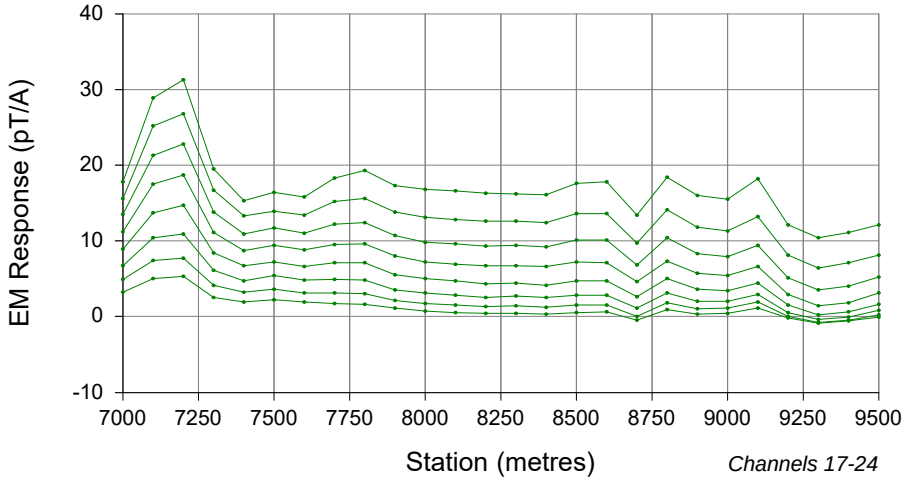


X Component - 3.18 ms to 14.47 ms



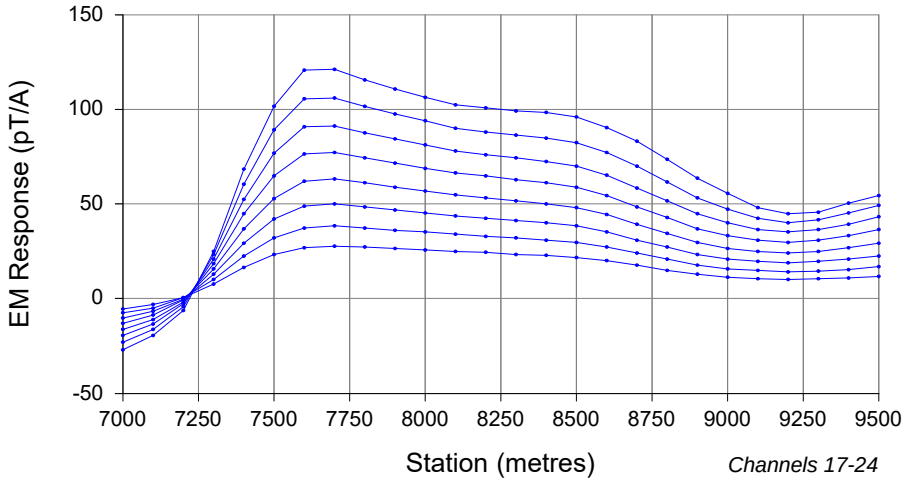
Channels 17-24

Y Component - 3.18 ms to 14.47 ms



Channels 17-24

Z Component - 3.18 ms to 14.47 ms



Channels 17-24

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From the end of the Turn-Off Ramp

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SURVEY PARAMETERS

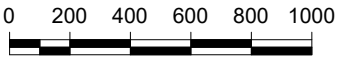
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

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L4350E - LOOP 2

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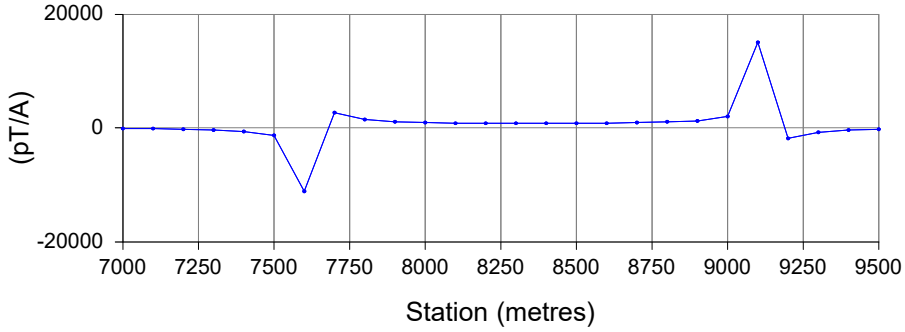
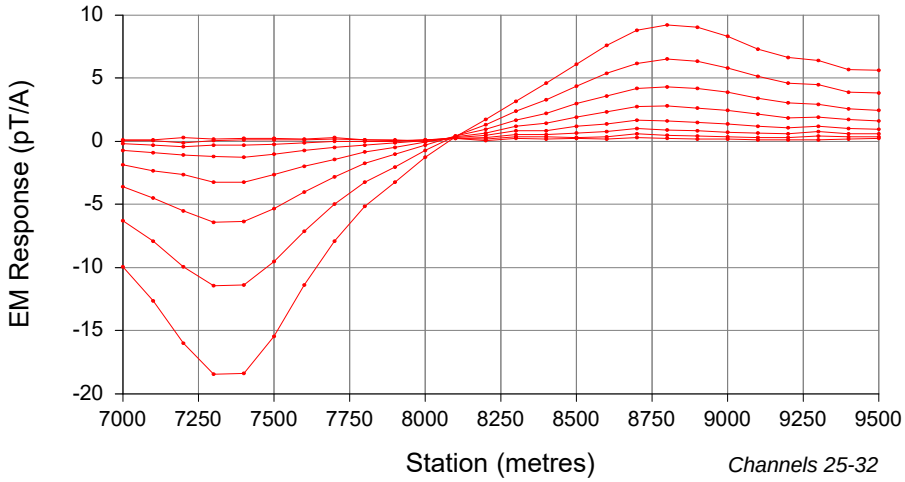
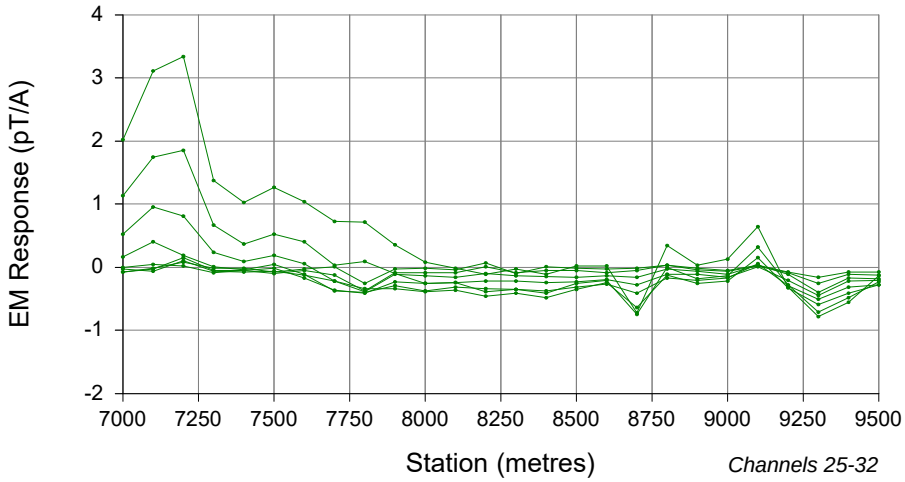
Z Primary Field



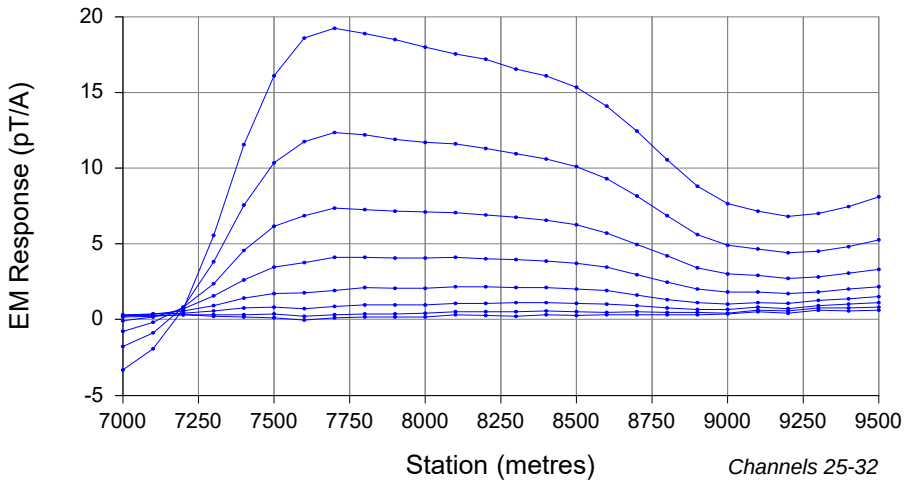
X Component - 17.97 ms to 81.67 ms



Y Component - 17.97 ms to 81.67 ms



Z Component - 17.97 ms to 81.67 ms



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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
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TRANSMITTER

Transmitter	: Phoenix TXU-30
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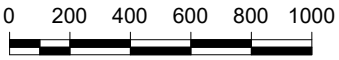

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L4350E - LOOP 2

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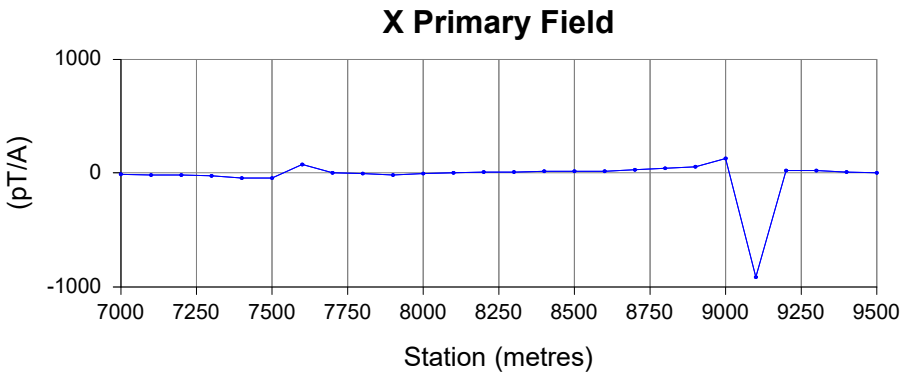

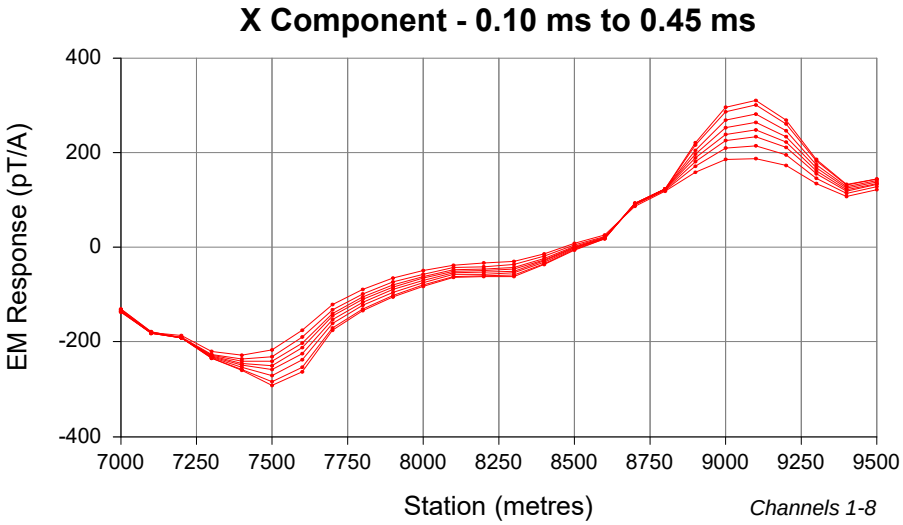

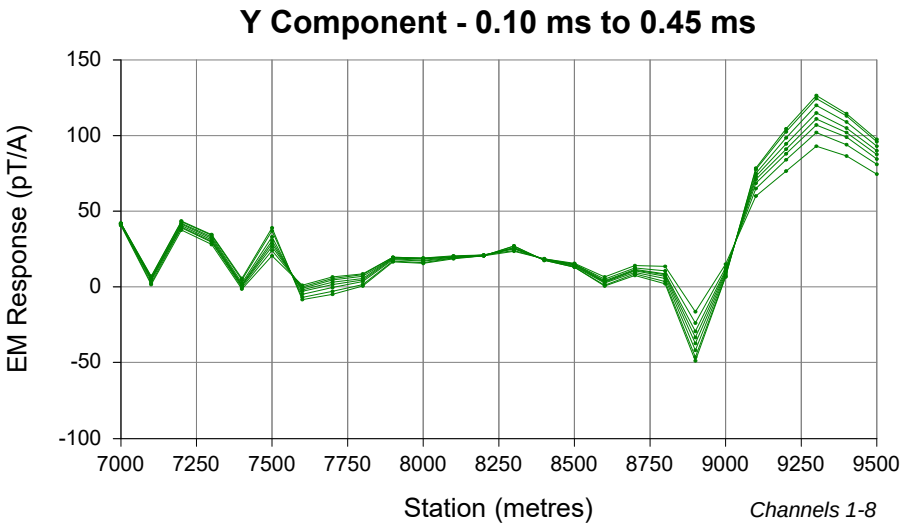

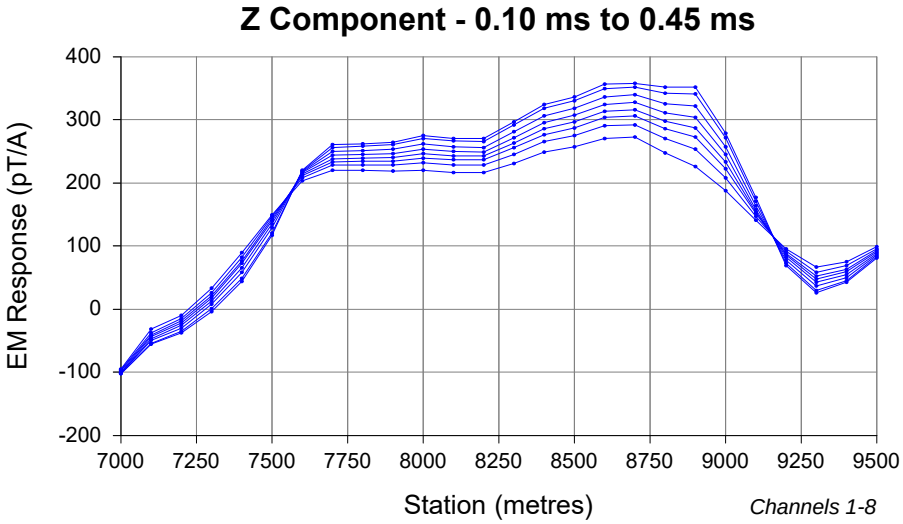

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

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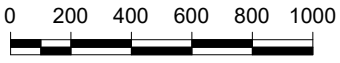

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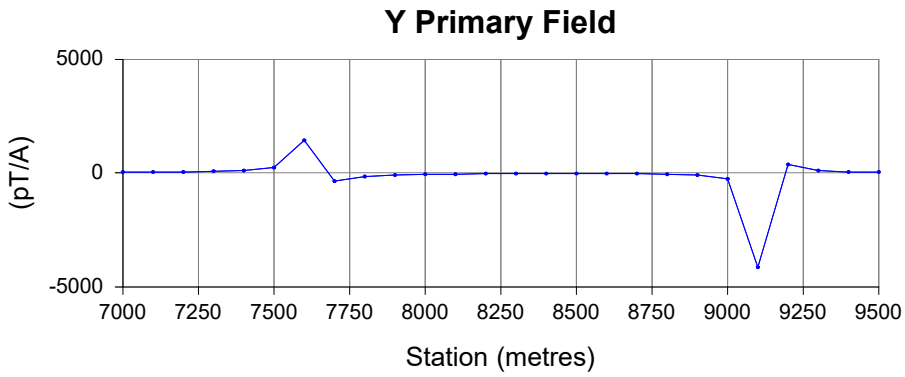

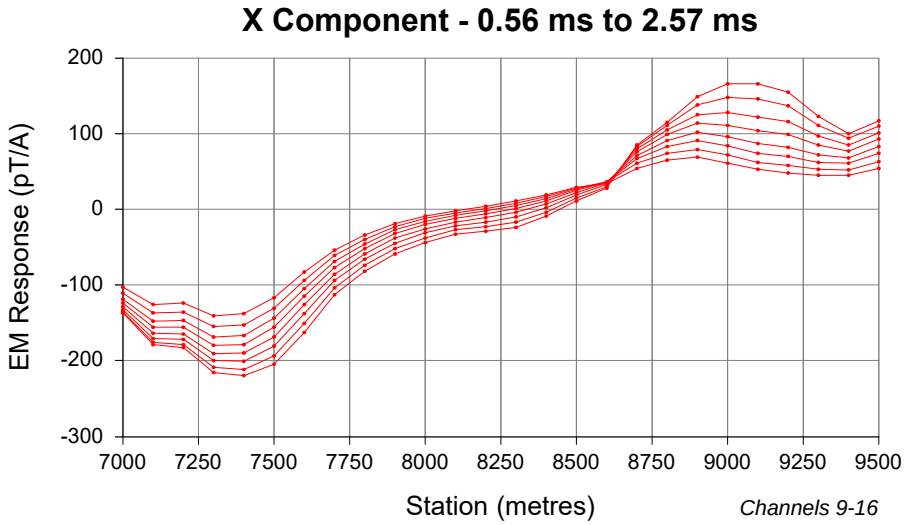

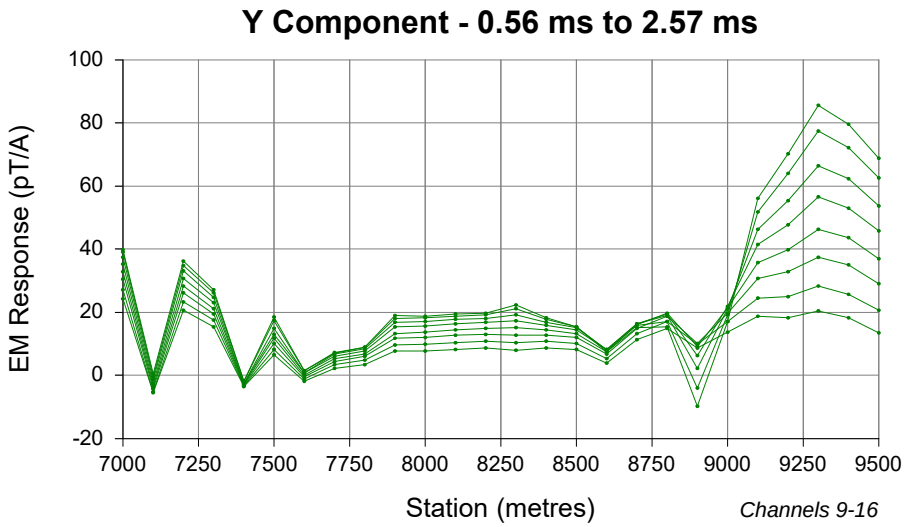

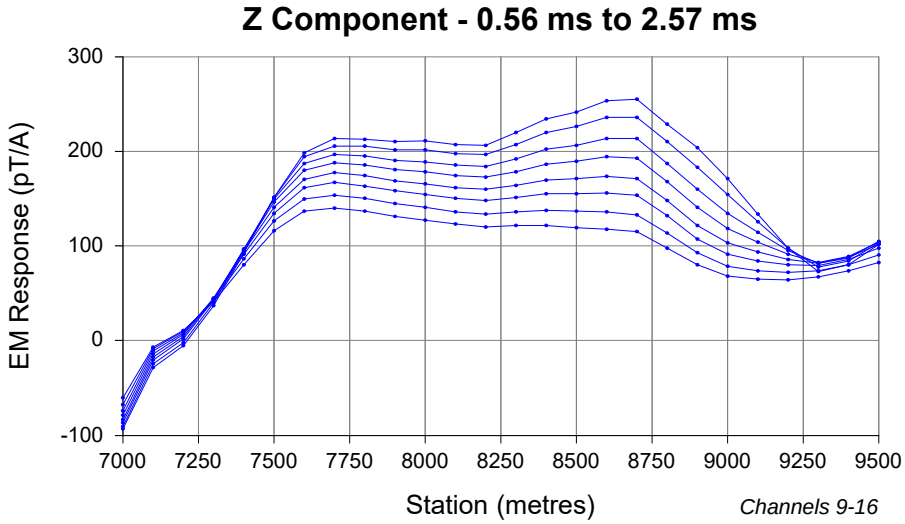

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

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Frequency	: 2.5 Hz
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TRANSMITTER

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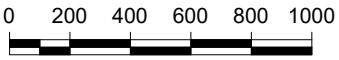

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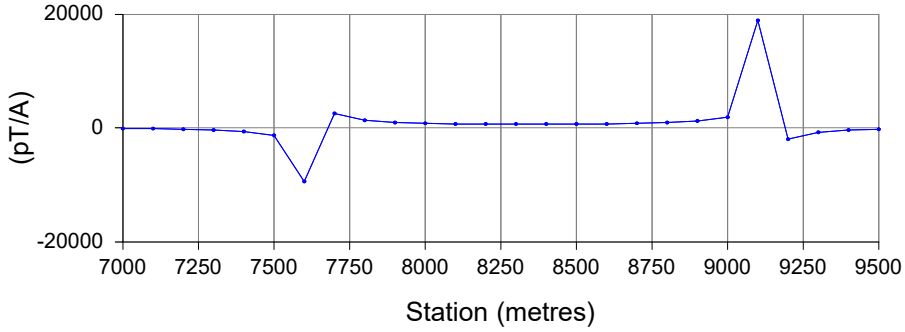
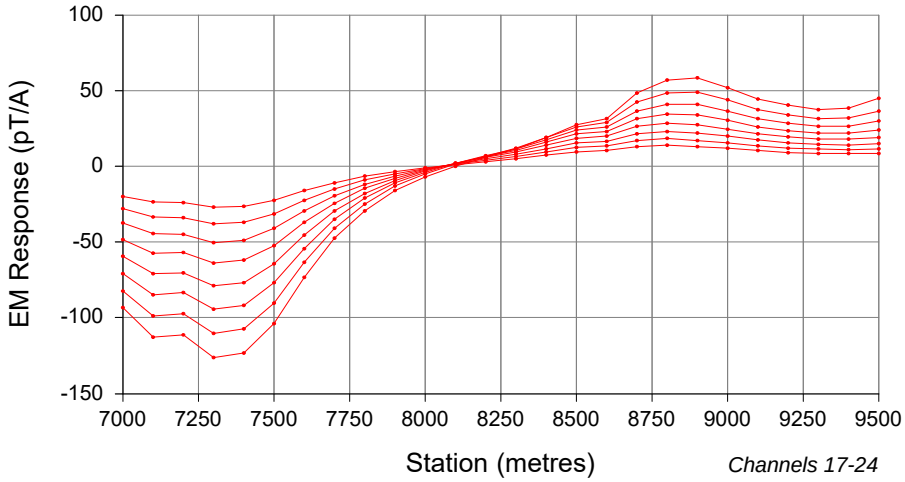
Z Primary Field



X Component - 3.18 ms to 14.47 ms



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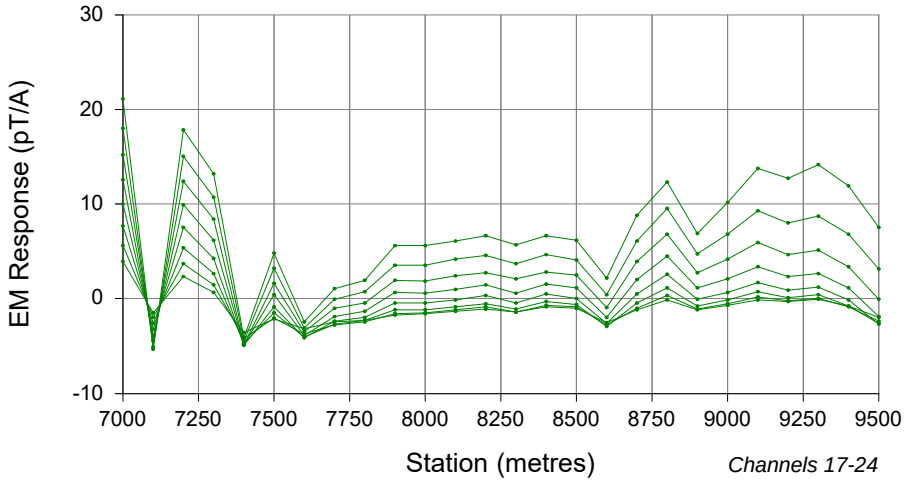
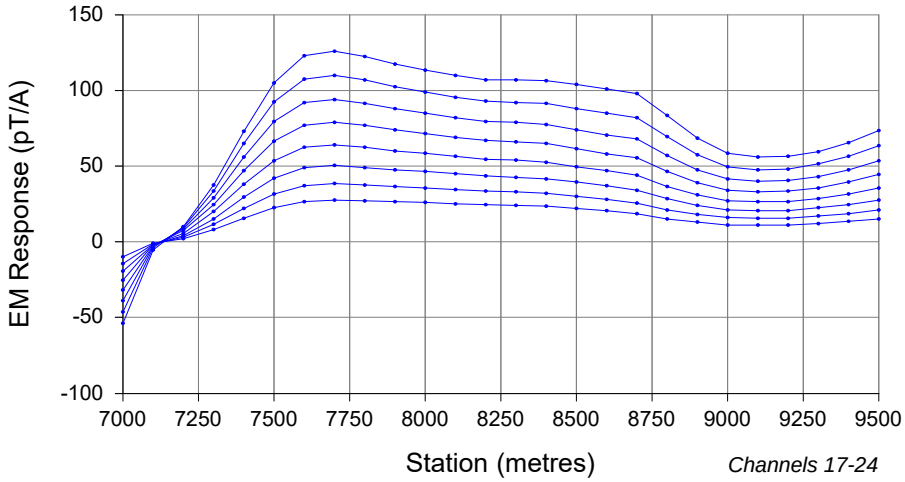


Z Component - 3.18 ms to 14.47 ms



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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
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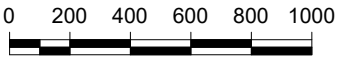

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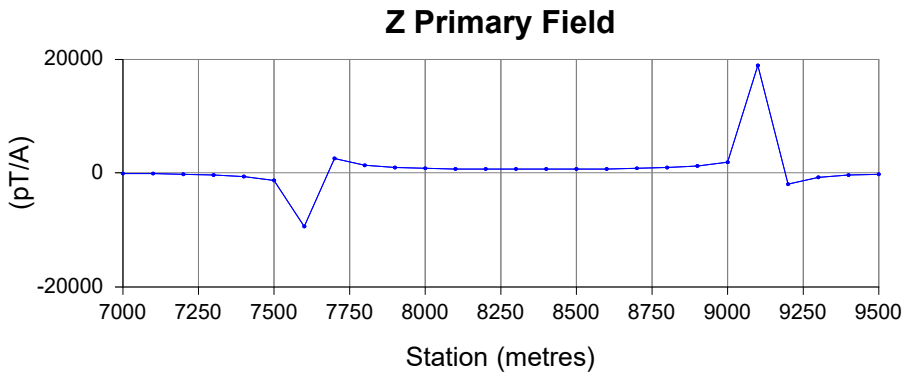

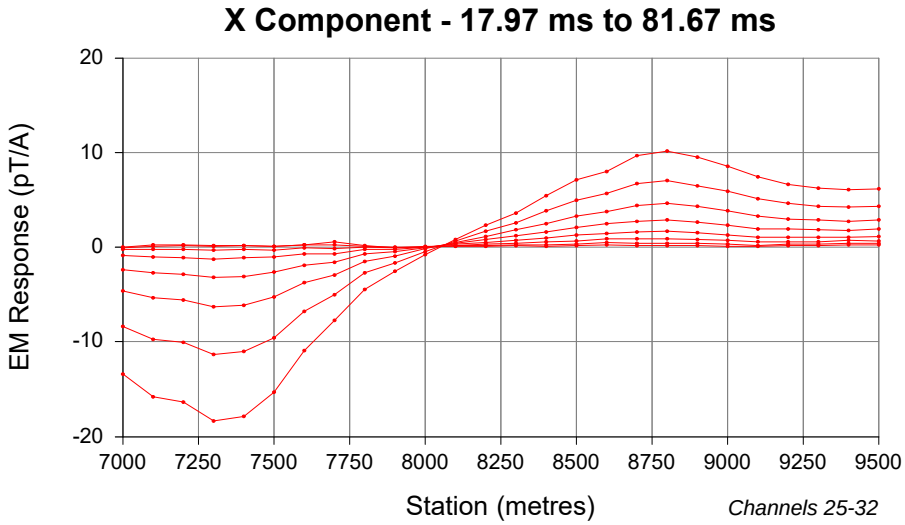

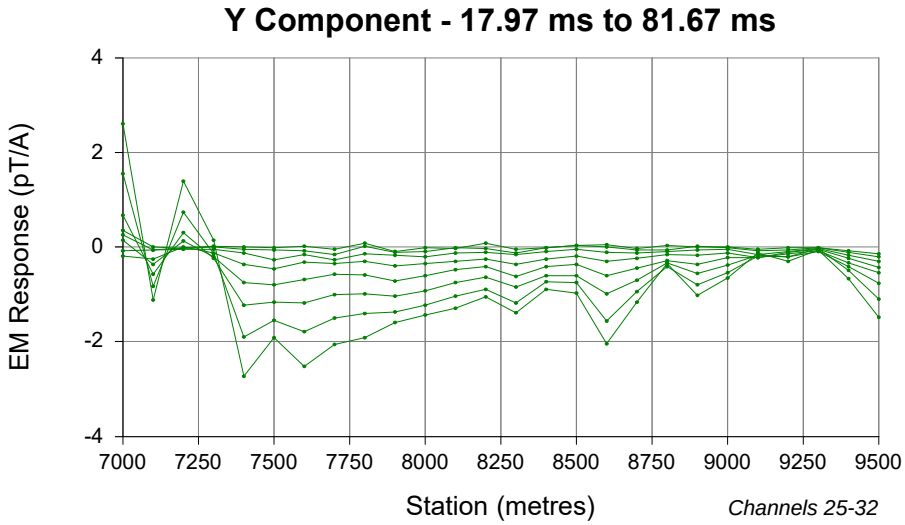

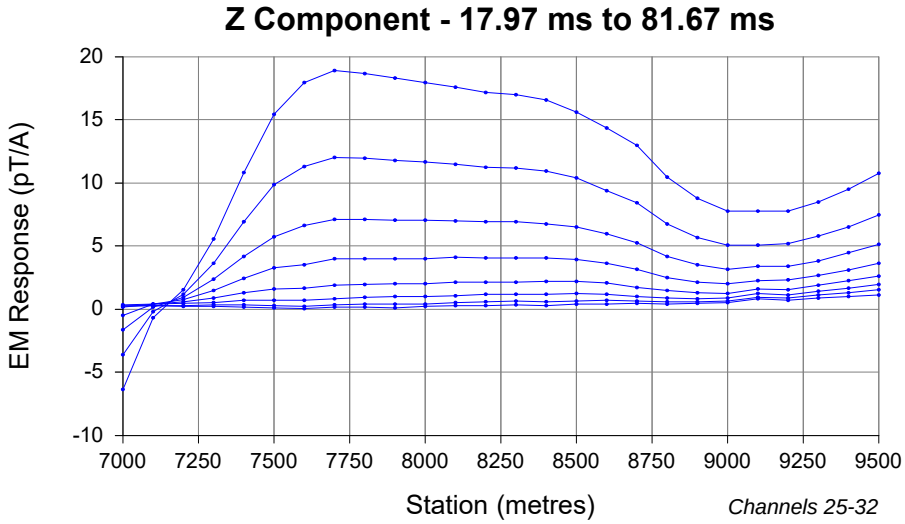

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	17	: 3.184
2	: 0.1245	18	: 3.953
3	: 0.1540	19	: 4.908
4	: 0.1910	20	: 6.093
5	: 0.2375	21	: 7.564
6	: 0.2950	22	: 9.390
7	: 0.3660	23	: 11.66
8	: 0.4545	24	: 14.47
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10	: 0.7005	26	: 22.31
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12	: 1.080	28	: 34.38
13	: 1.341	29	: 42.68
14	: 1.664	30	: 52.99
15	: 2.066	31	: 65.79
16	: 2.565	32	: 81.67

SURVEY PARAMETERS

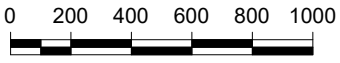
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

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Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4650E - LOOP 2

Surveyed By: Connor Harrison
Survey Date: September 2017

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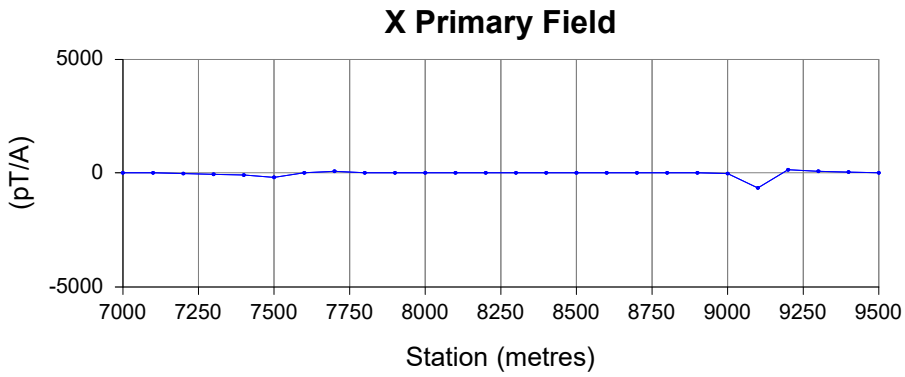

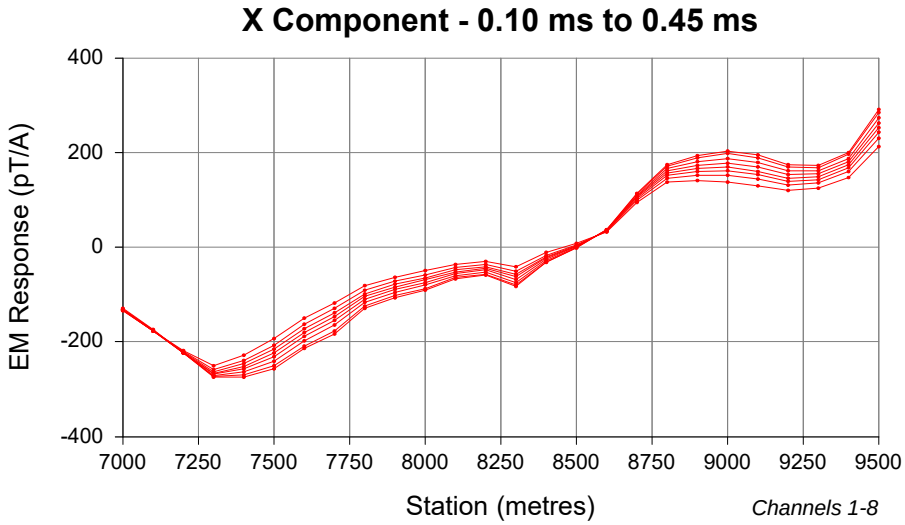

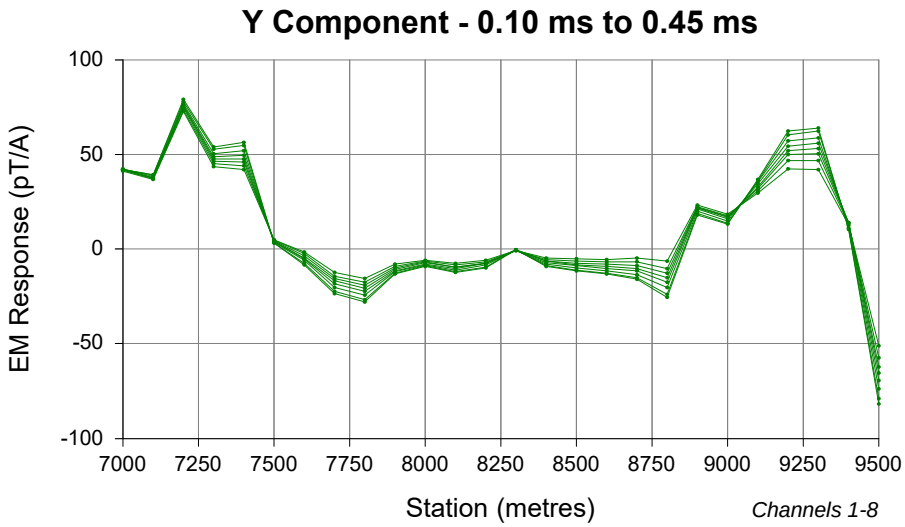

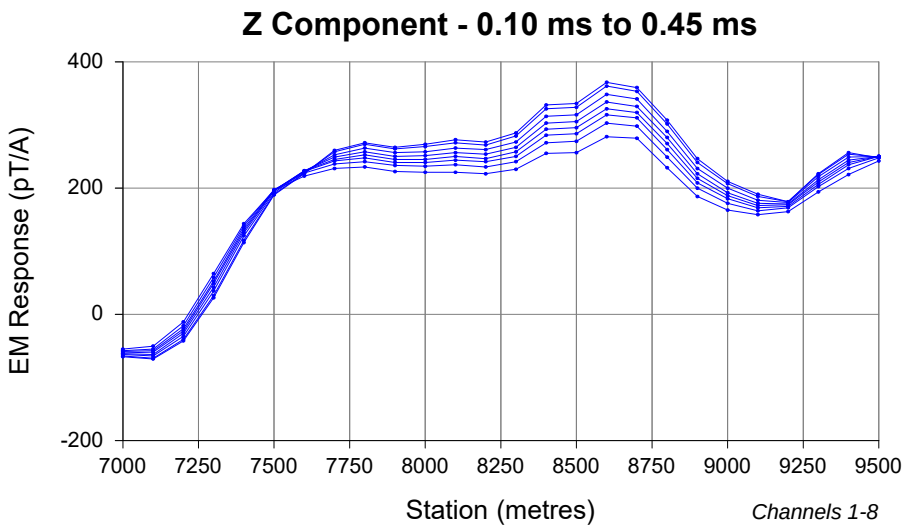

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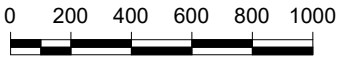

Scale 1:25000

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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4950E - LOOP 2

Surveyed By: Connor Harrison
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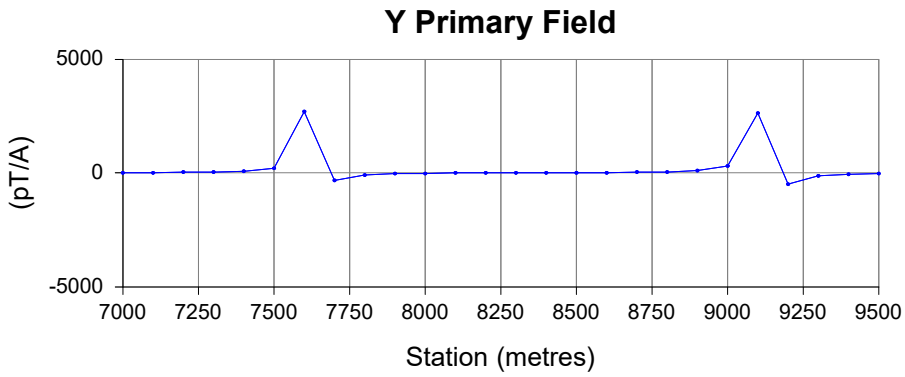

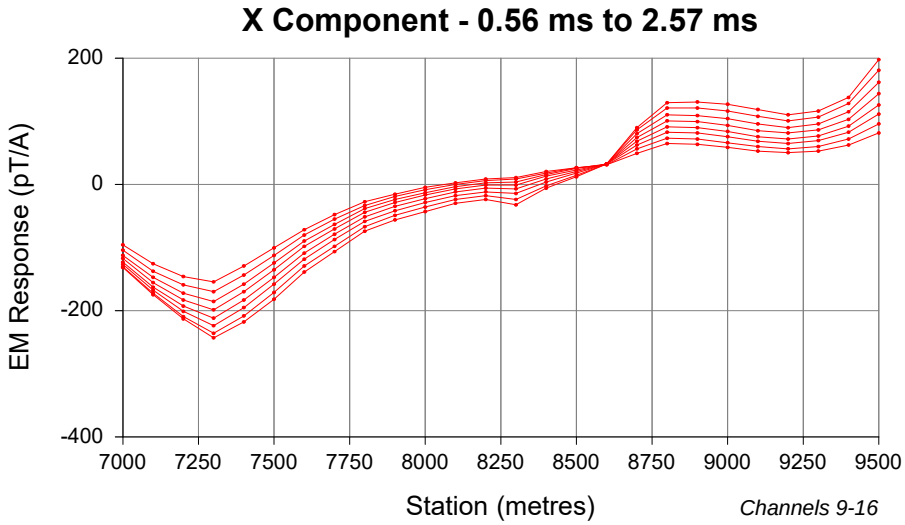

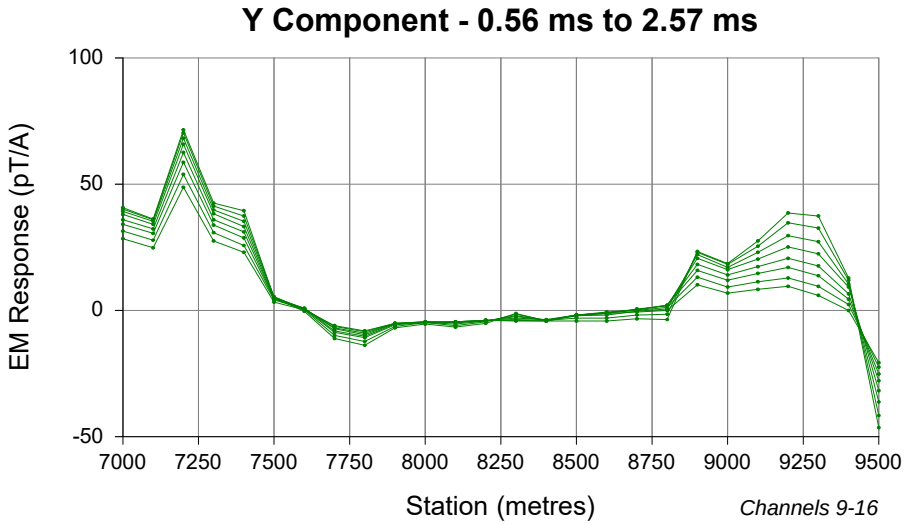

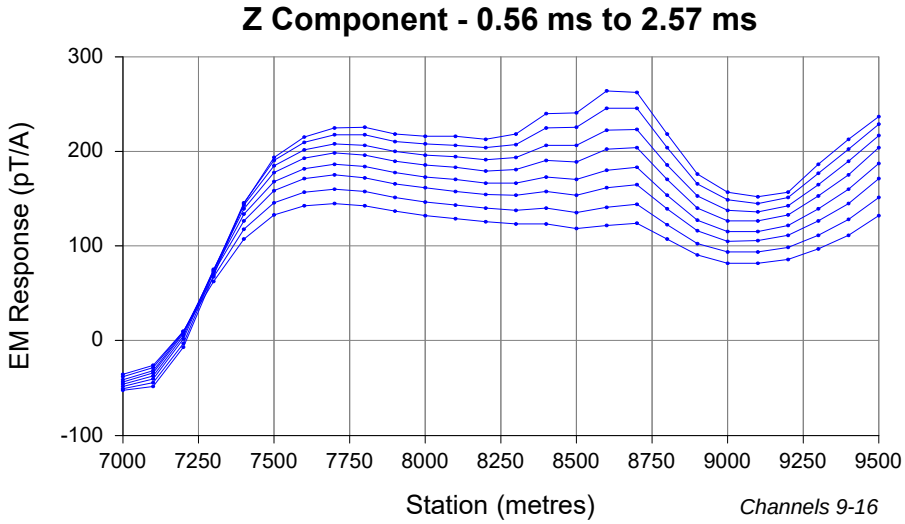

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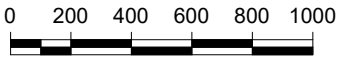

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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4950E - LOOP 2

Surveyed By: Connor Harrison
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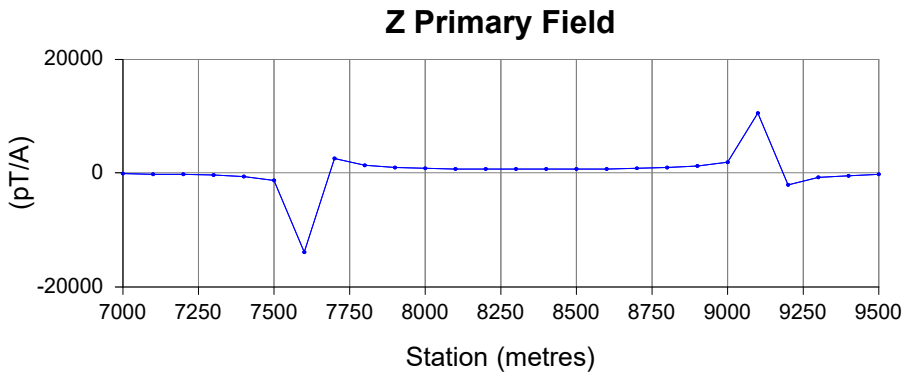

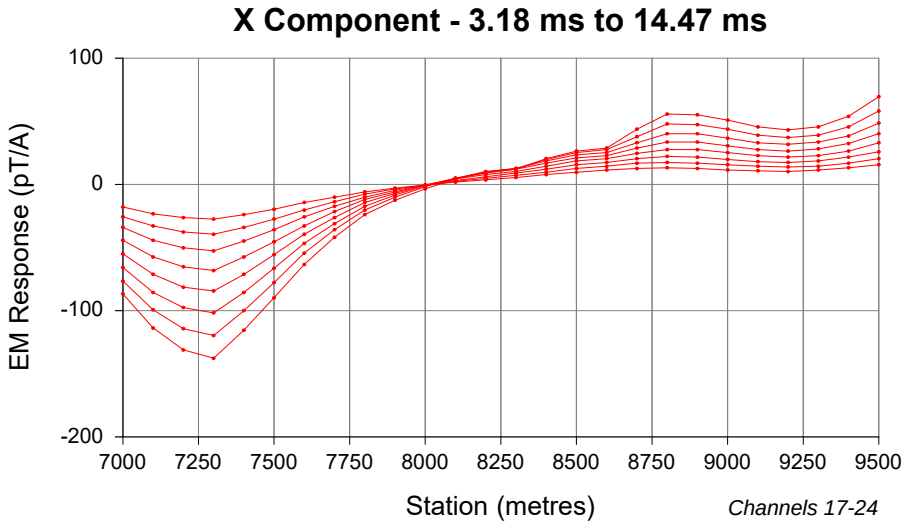

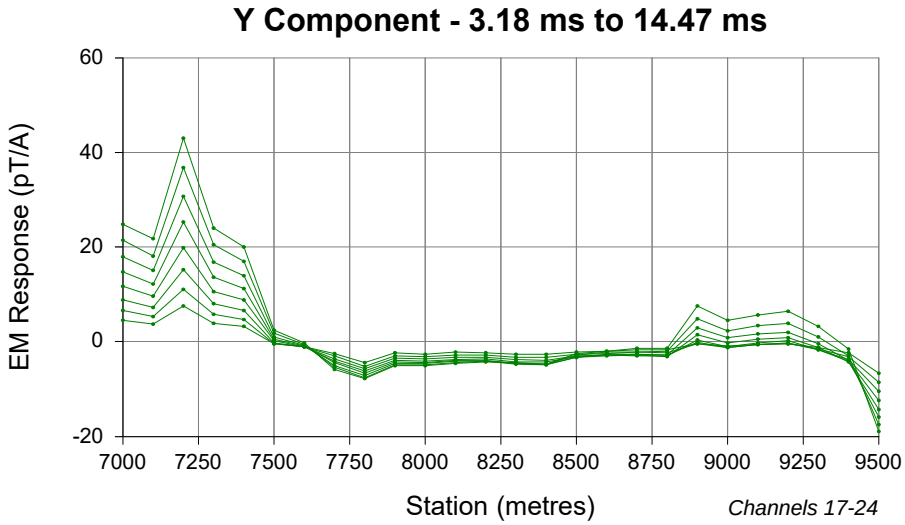

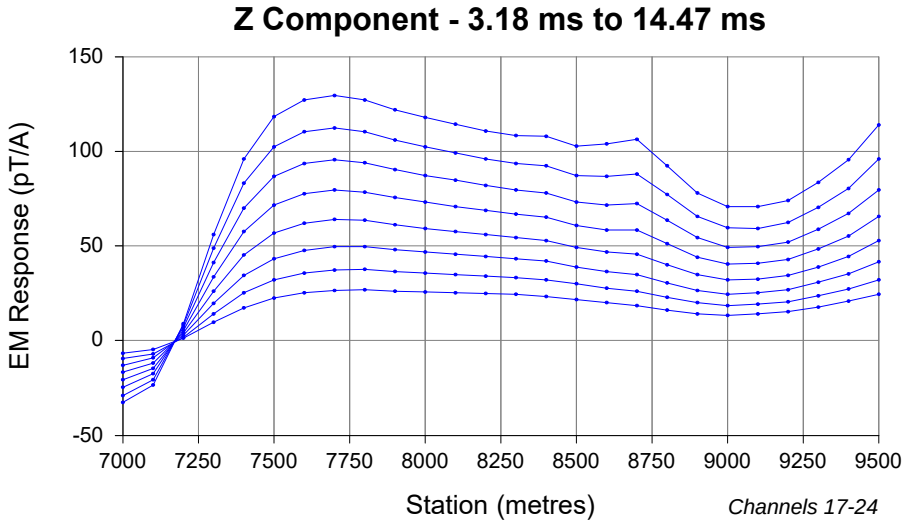

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

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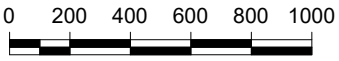

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Fixed-Loop TEM Survey
L4950E - LOOP 2

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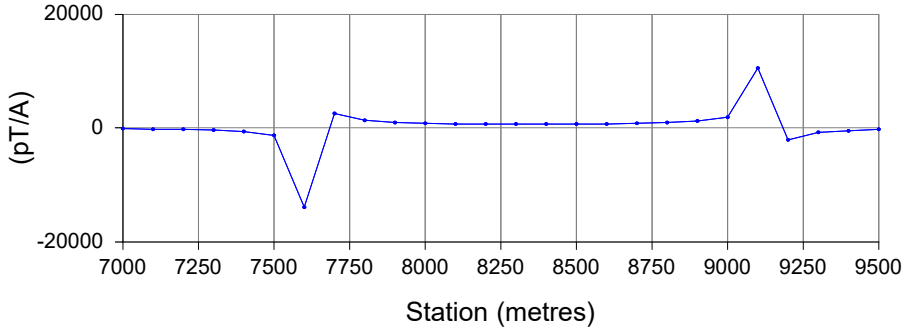
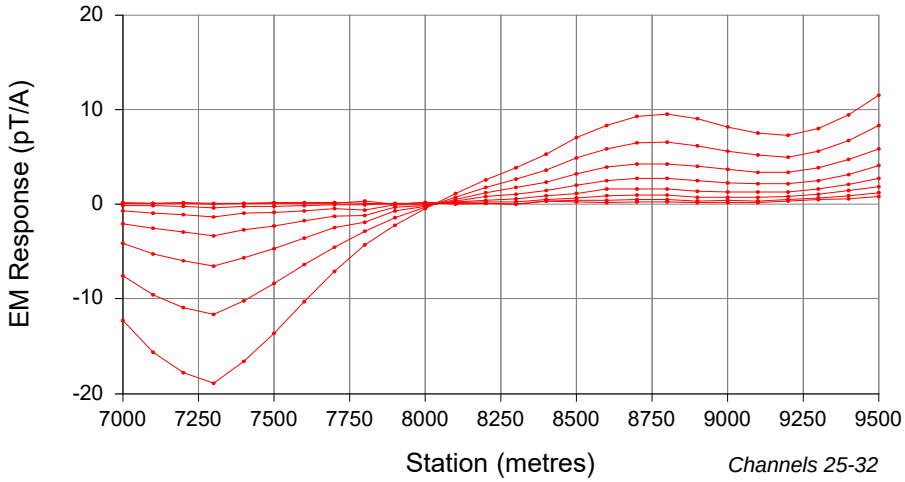
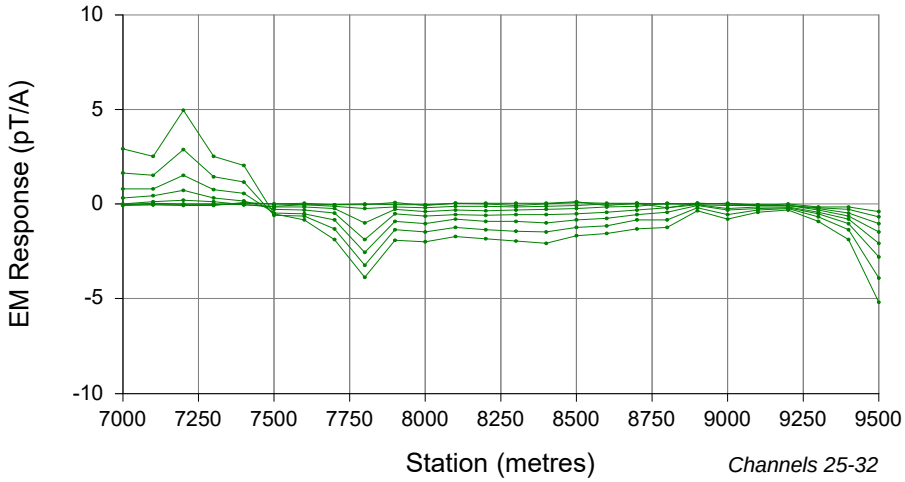
Z Primary Field



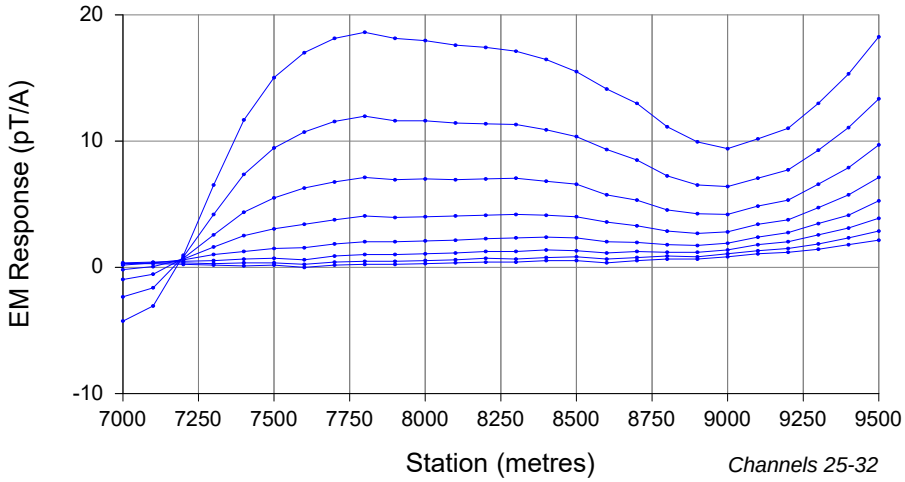
X Component - 17.97 ms to 81.67 ms



Y Component - 17.97 ms to 81.67 ms



Z Component - 17.97 ms to 81.67 ms



WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
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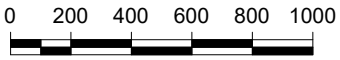

Scale 1:25000

BMC Minerals Ltd.
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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L4950E - LOOP 2

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Survey Date: September 2017

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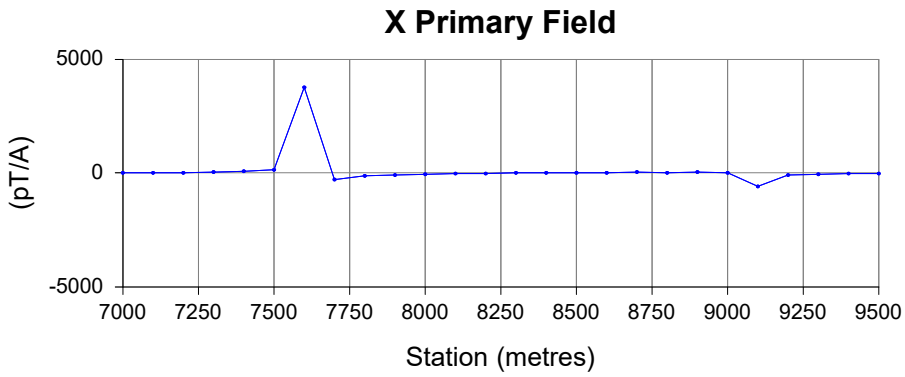

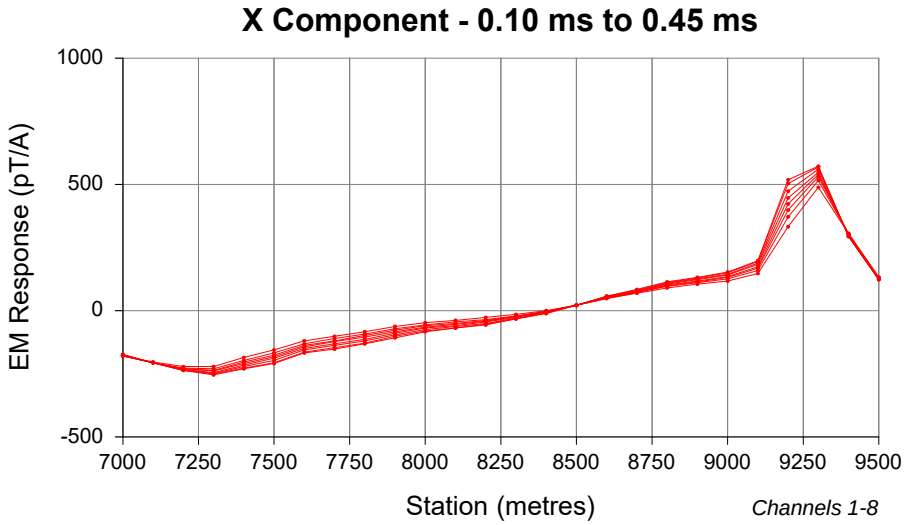

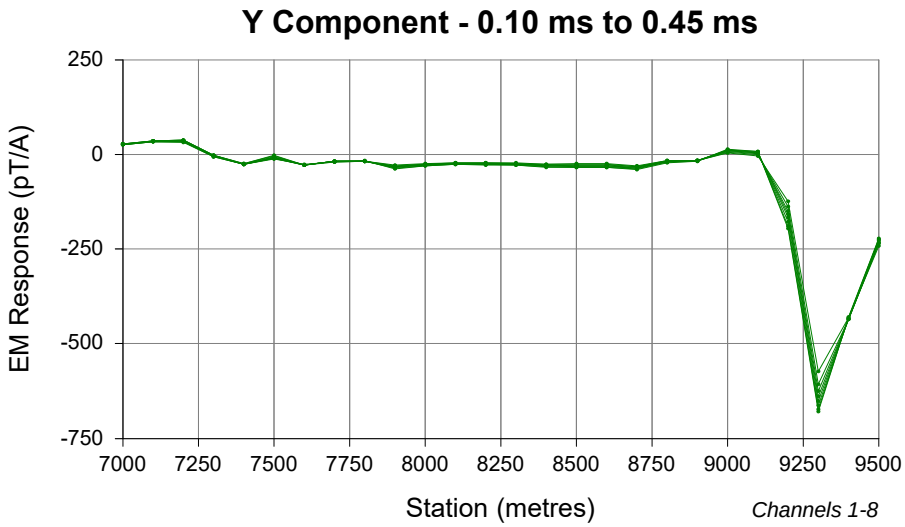

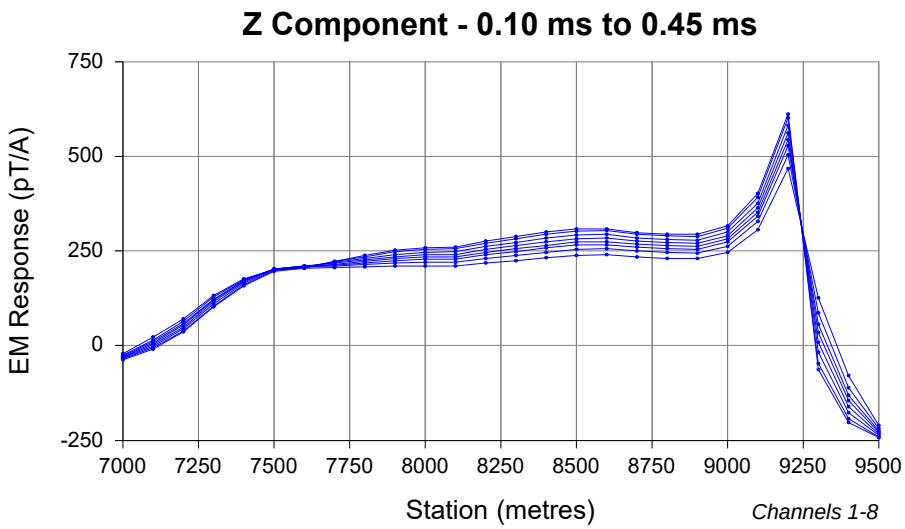

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Station Spacing	: 100 m

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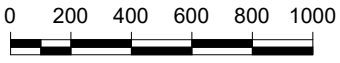

Scale 1:25000

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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5250E - LOOP 2

Surveyed By: Connor Harrison
Survey Date: September 2017

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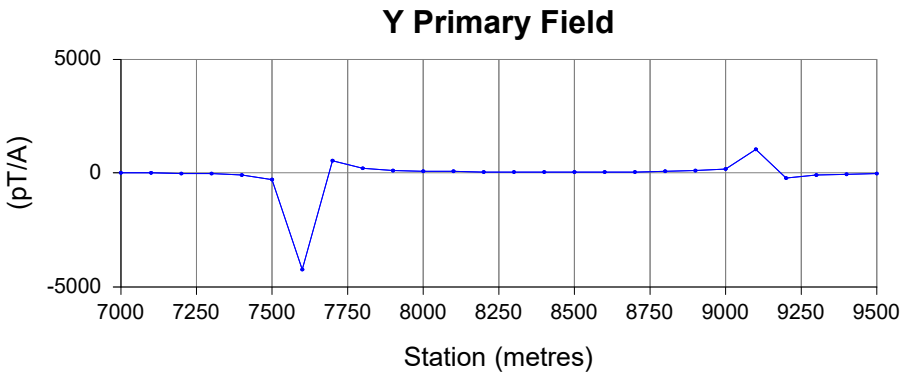

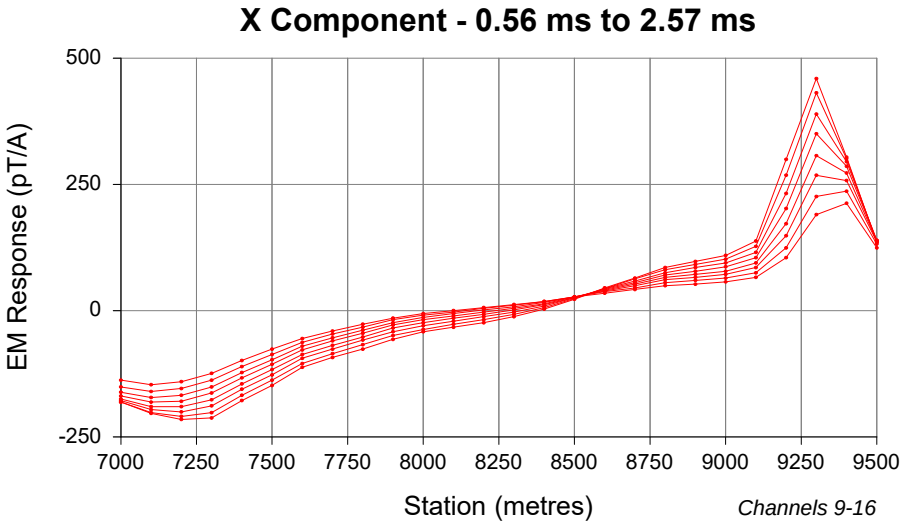

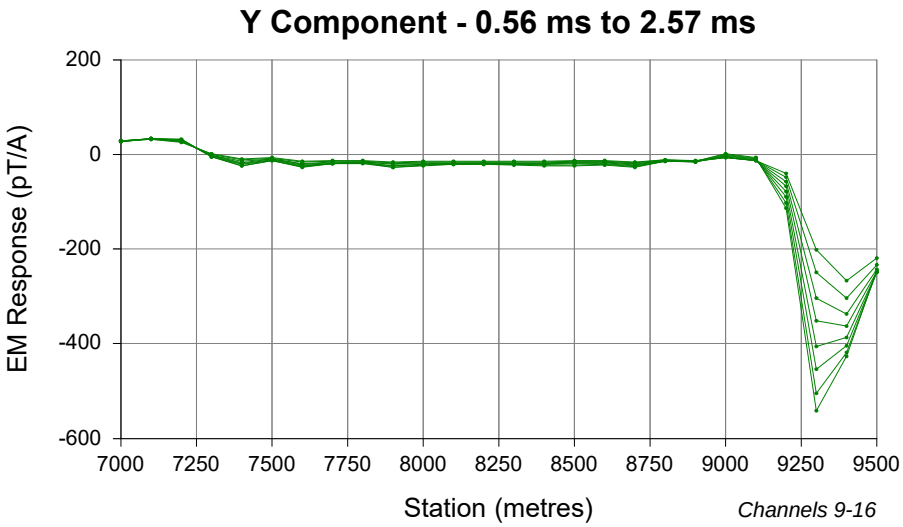

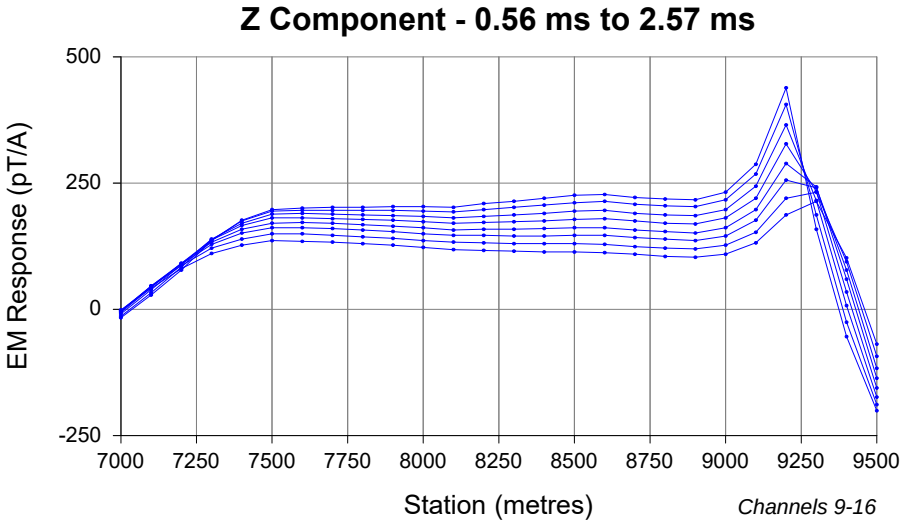

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16	: 2.565	32	: 81.67

SURVEY PARAMETERS

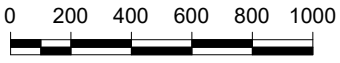
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5250E - LOOP 2

Surveyed By: Connor Harrison
Survey Date: September 2017

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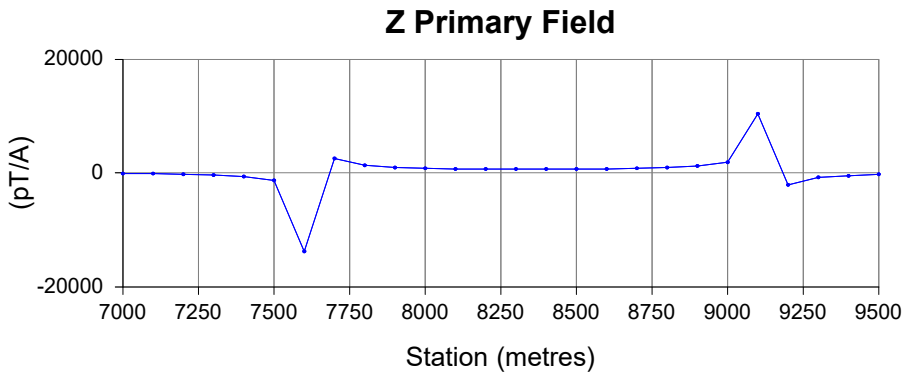

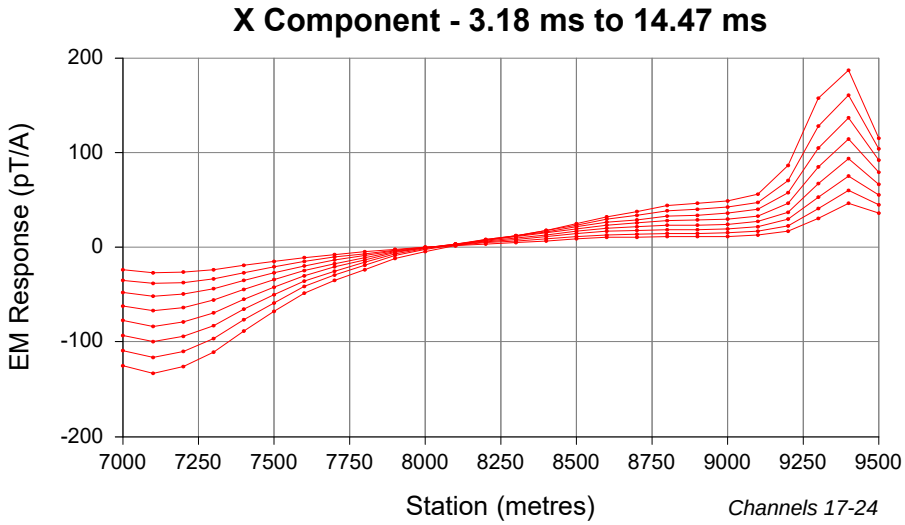

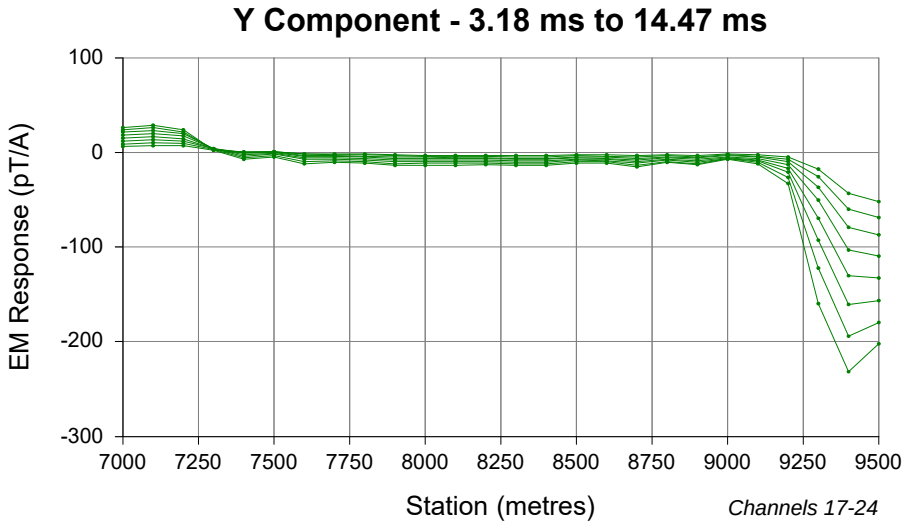

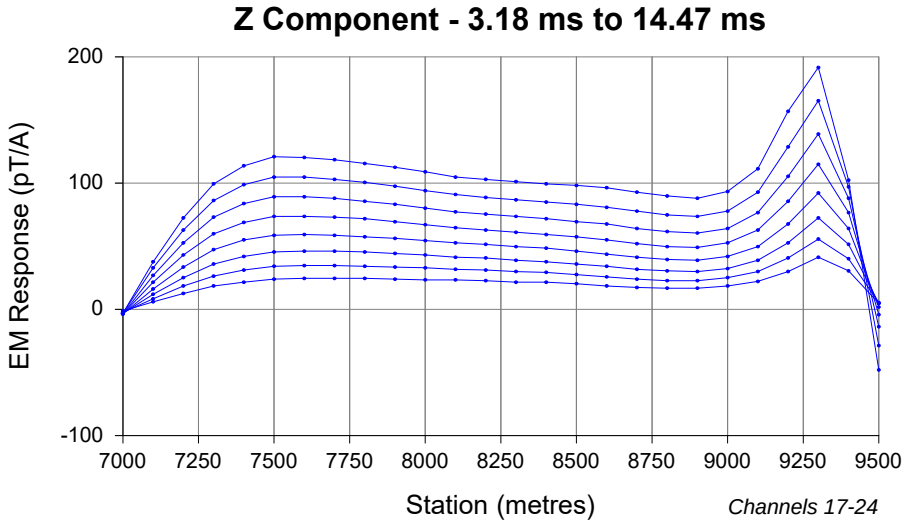

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	17	: 3.184
2	: 0.1245	18	: 3.953
3	: 0.1540	19	: 4.908
4	: 0.1910	20	: 6.093
5	: 0.2375	21	: 7.564
6	: 0.2950	22	: 9.390
7	: 0.3660	23	: 11.66
8	: 0.4545	24	: 14.47
9	: 0.5645	25	: 17.97
10	: 0.7005	26	: 22.31
11	: 0.8695	27	: 27.69
12	: 1.080	28	: 34.38
13	: 1.341	29	: 42.68
14	: 1.664	30	: 52.99
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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
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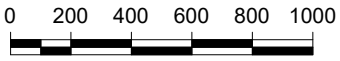

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Fixed-Loop TEM Survey
L5250E - LOOP 2

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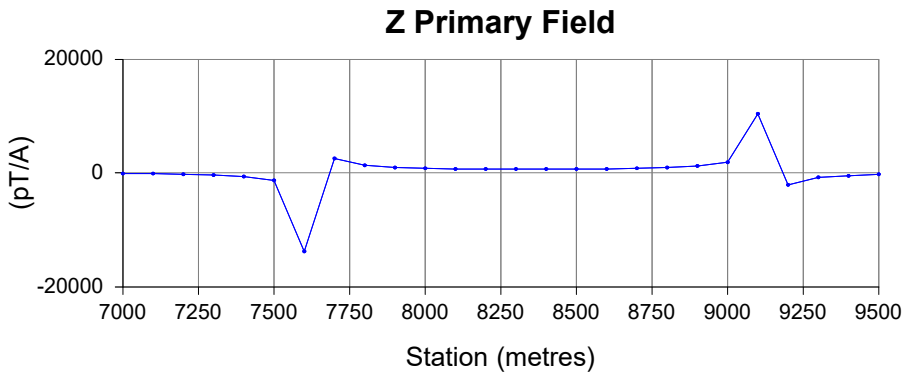

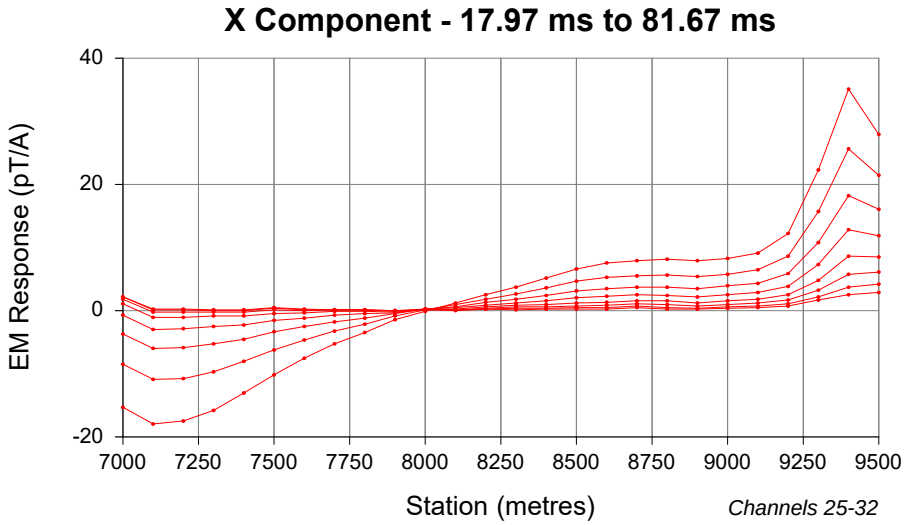

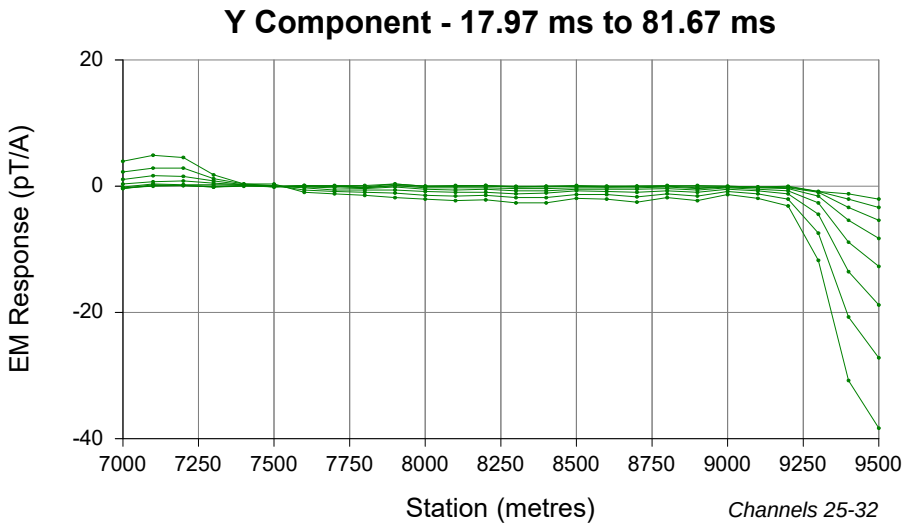

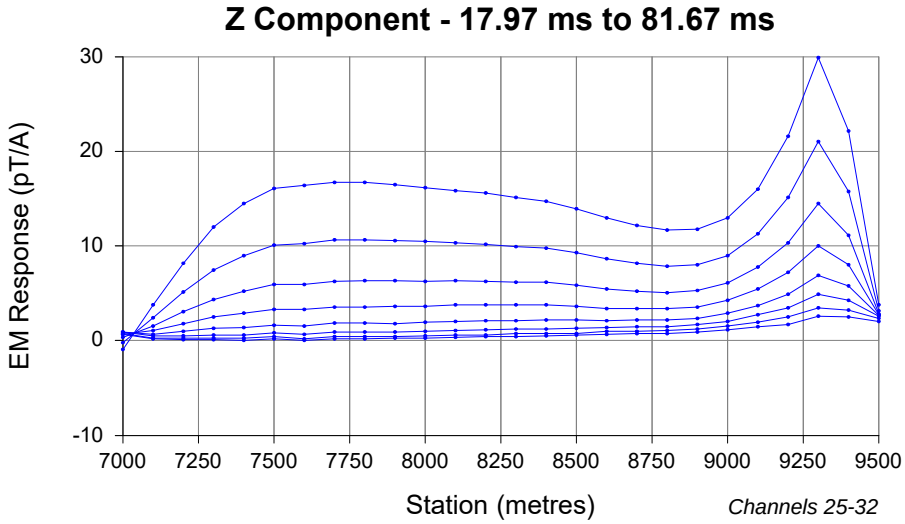

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
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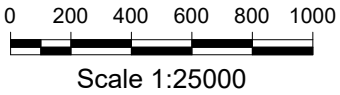

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Fixed-Loop TEM Survey
L5250E - LOOP 2

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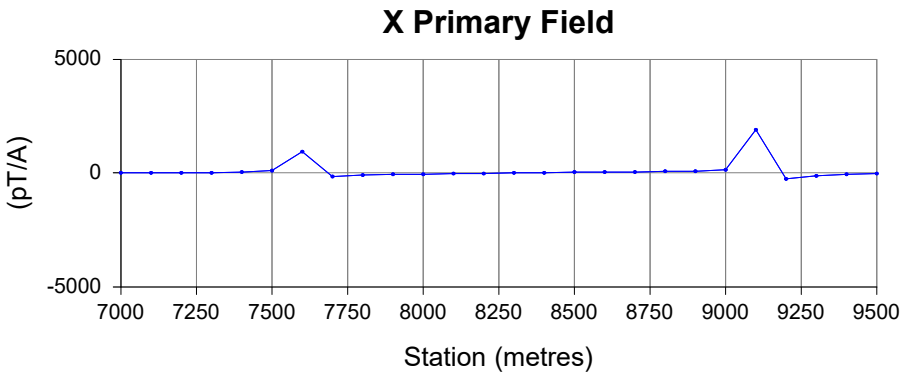

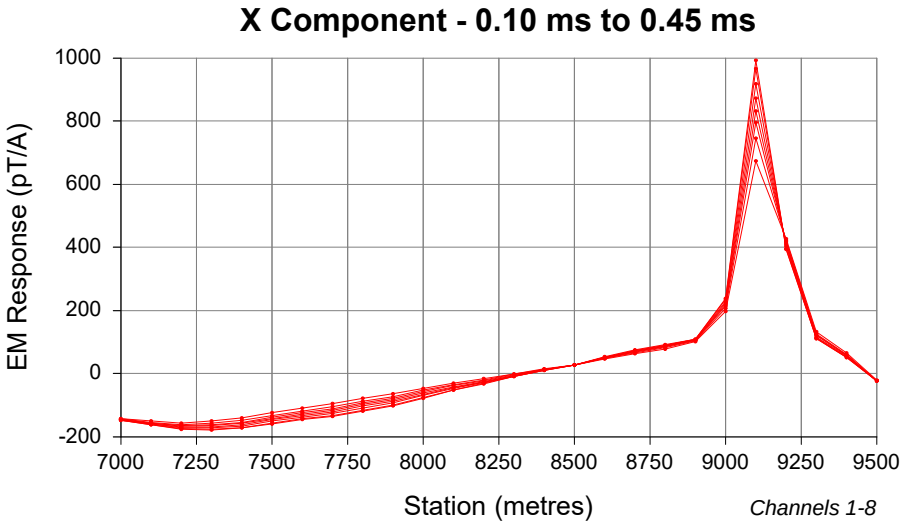

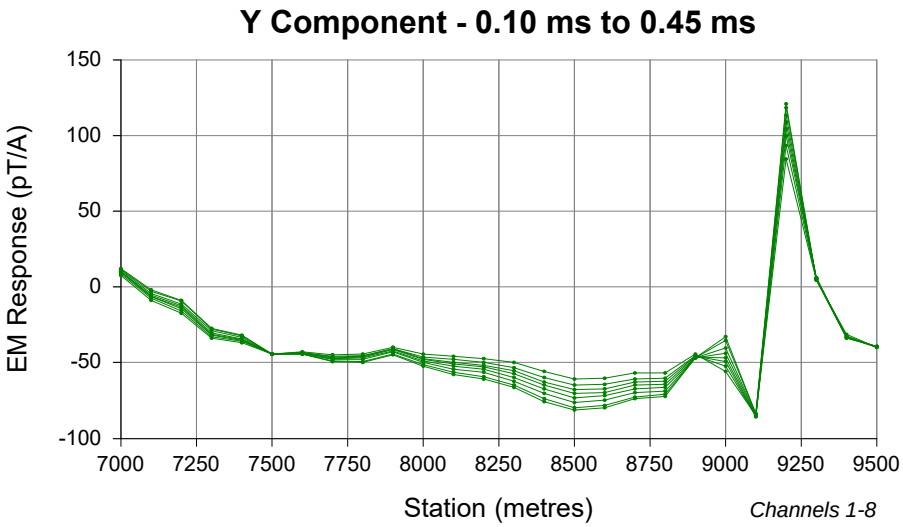

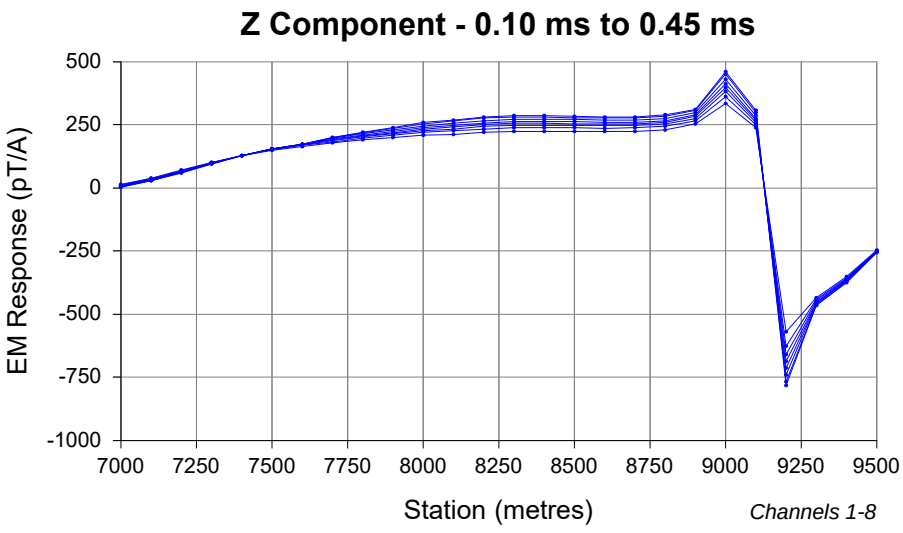

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
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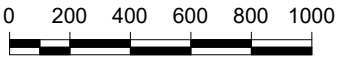
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5550E - LOOP 2

Surveyed By: Connor Harrison
Survey Date: September 2017

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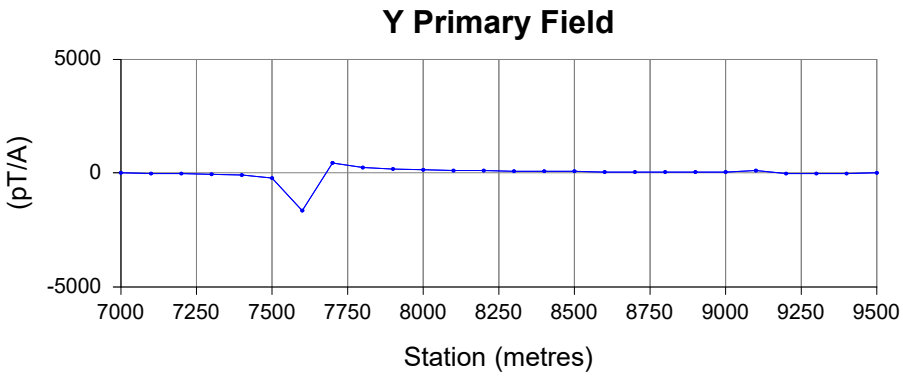

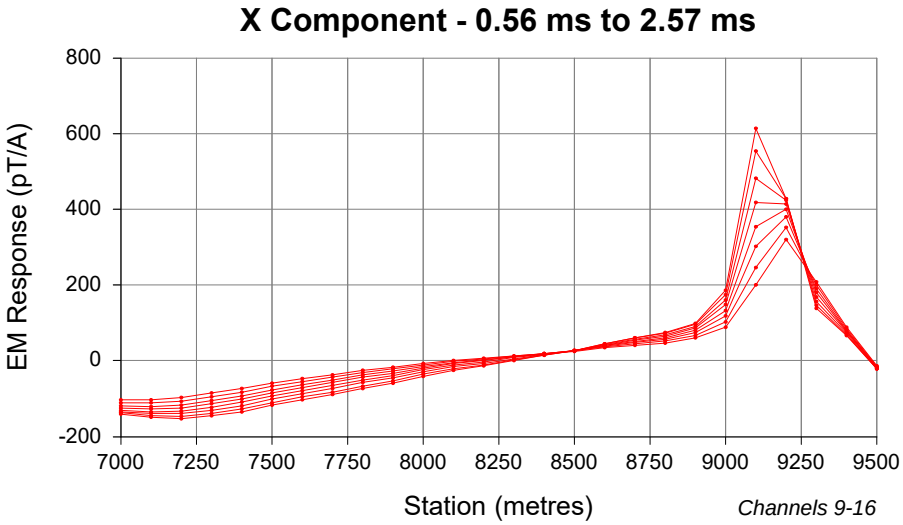

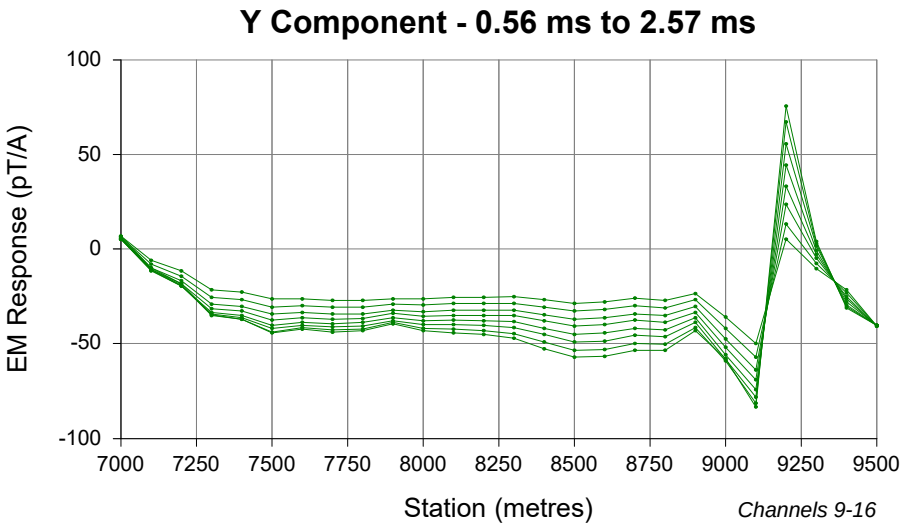

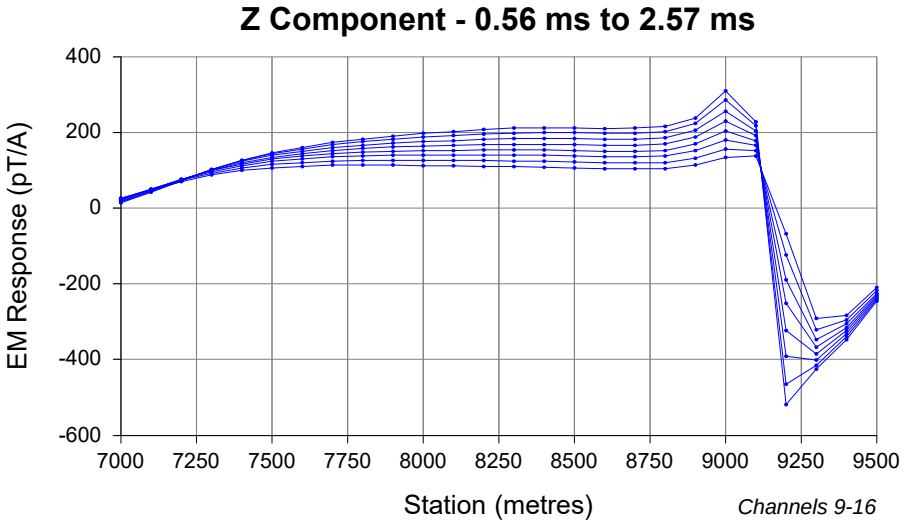

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

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Frequency	: 2.5 Hz
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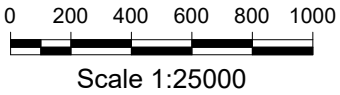

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Fixed-Loop TEM Survey
L5550E - LOOP 2

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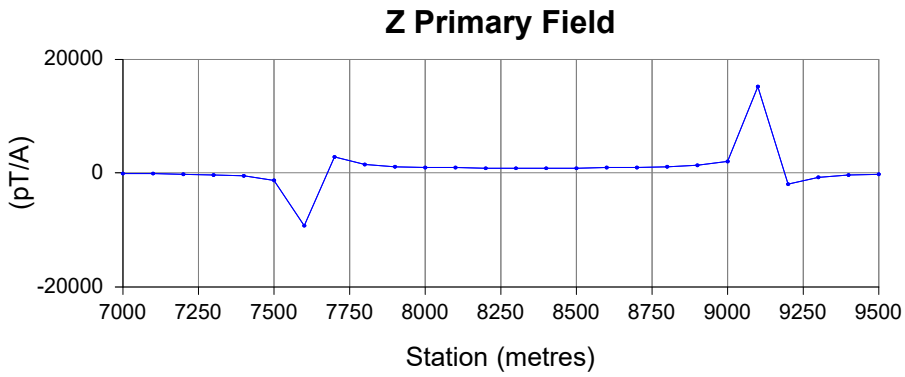

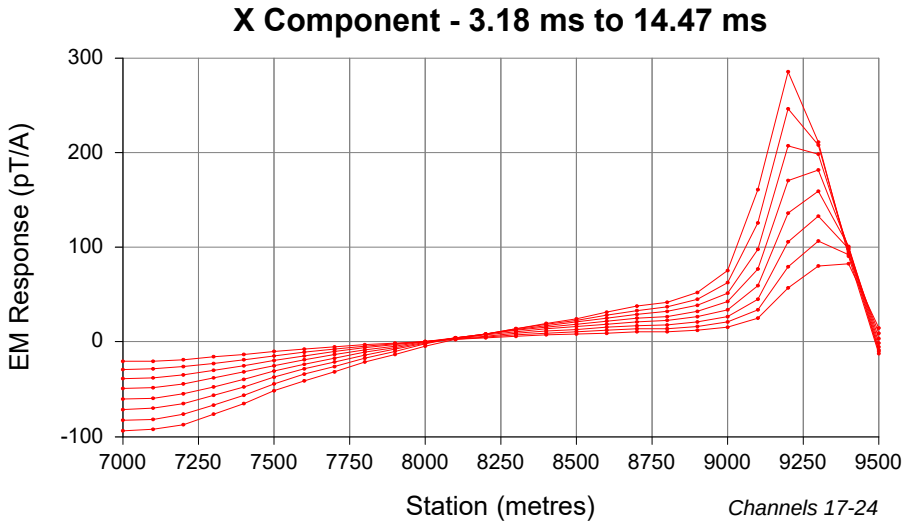

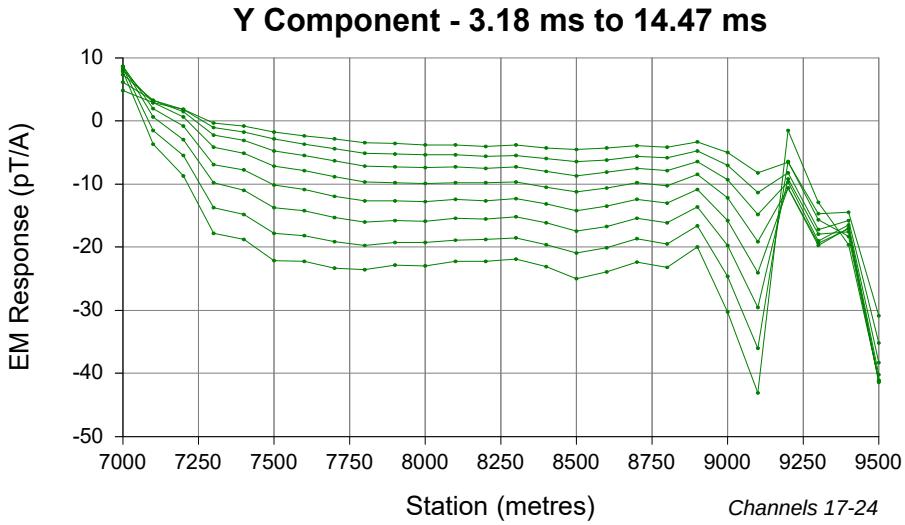

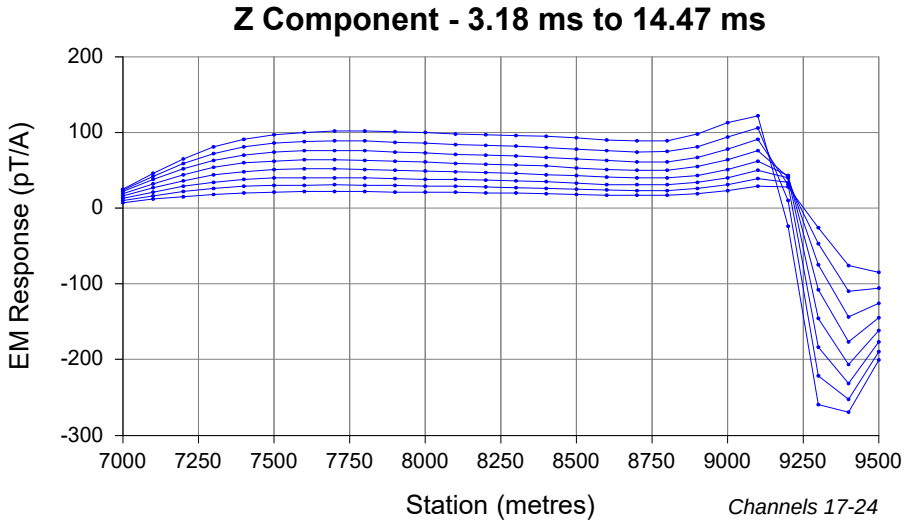

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
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TRANSMITTER

Transmitter	: Phoenix TXU-30
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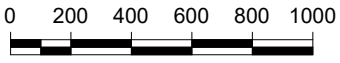

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L5550E - LOOP 2

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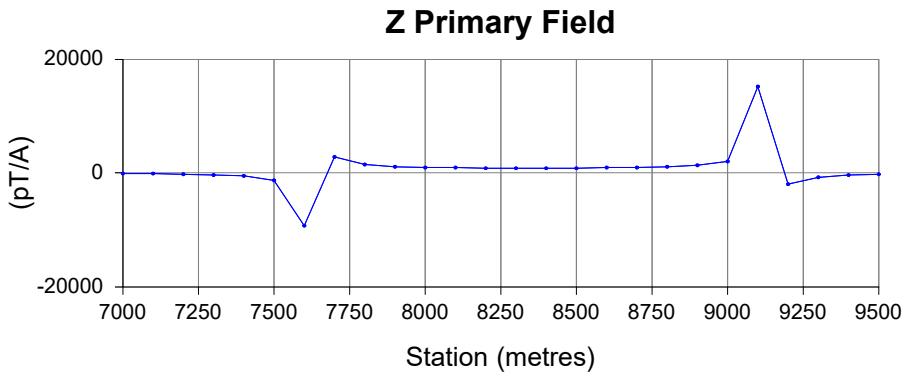

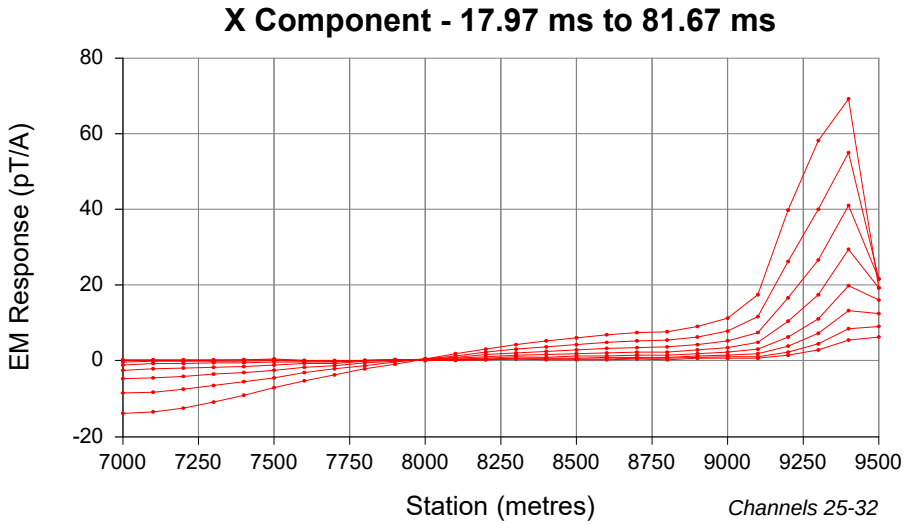

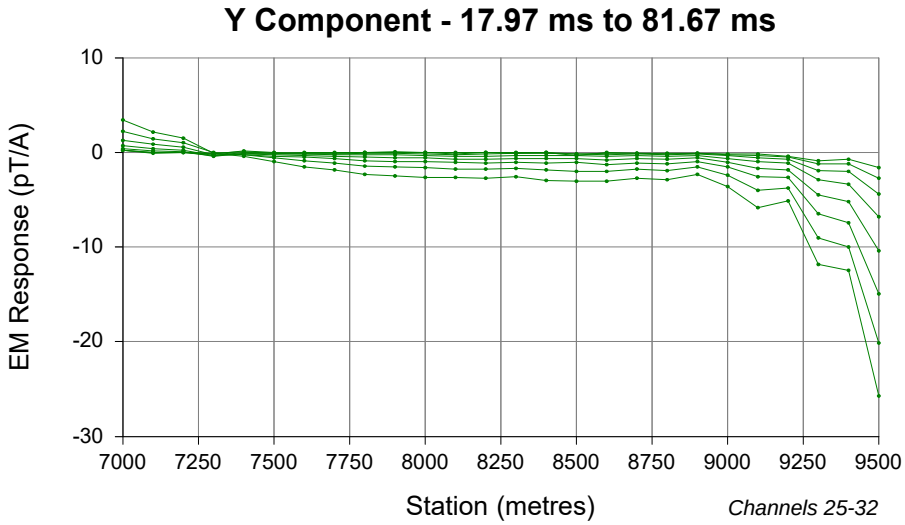

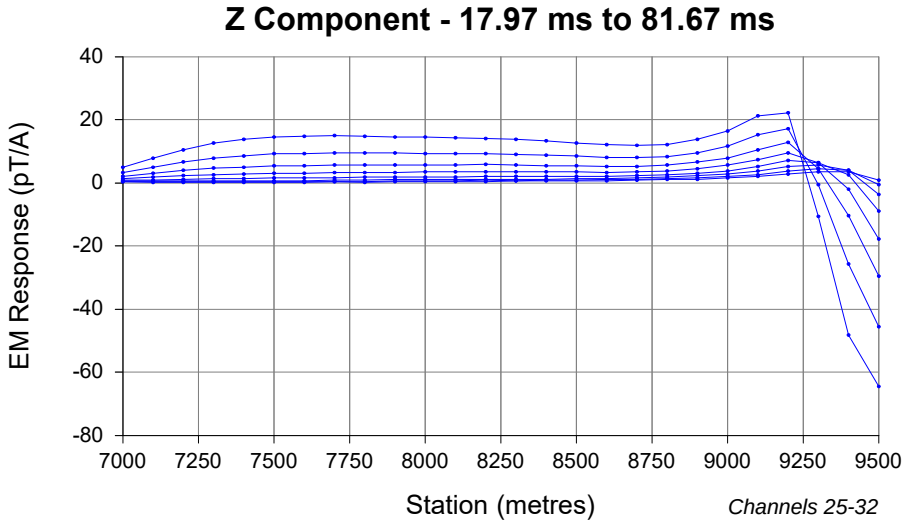

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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
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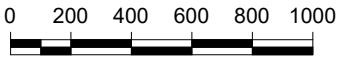

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L5550E - LOOP 2

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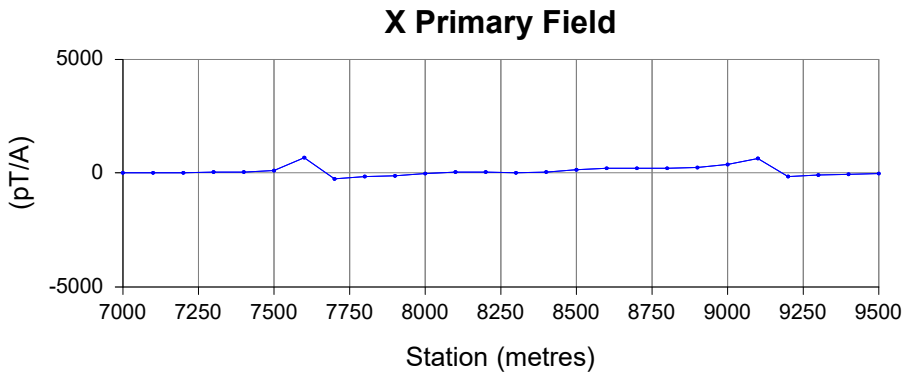
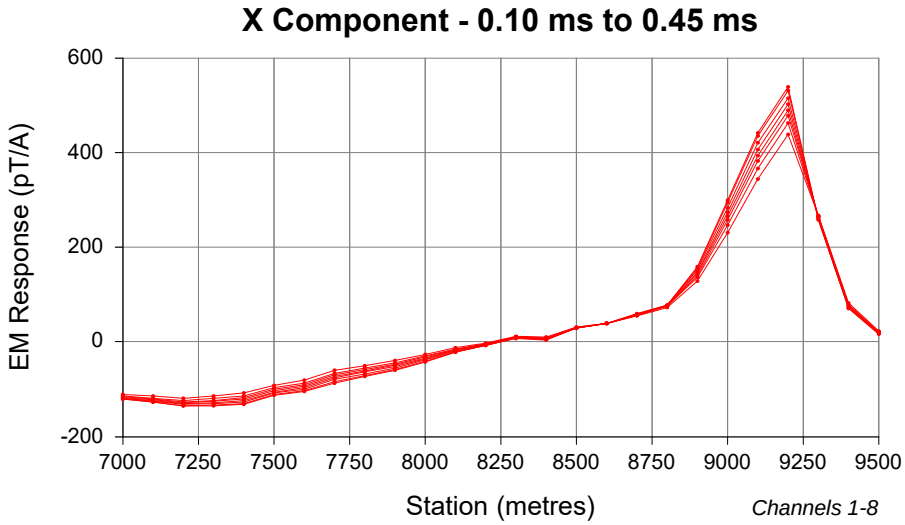
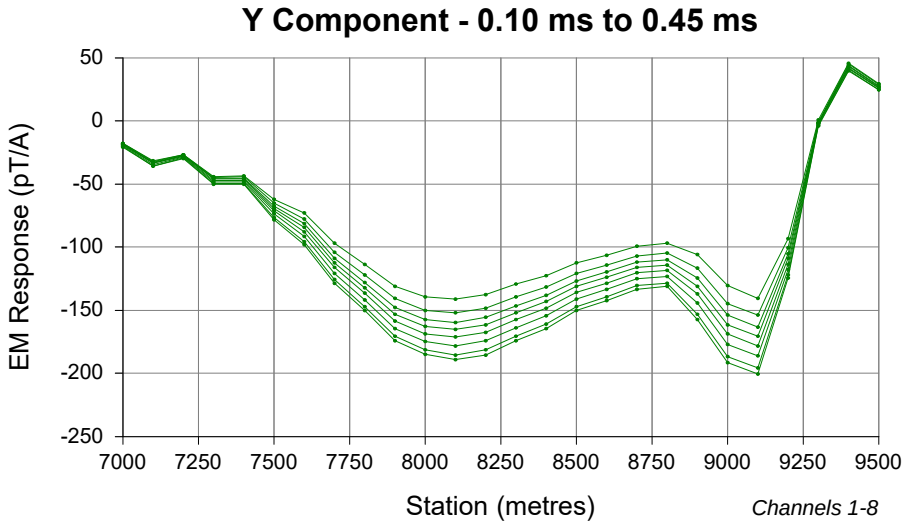
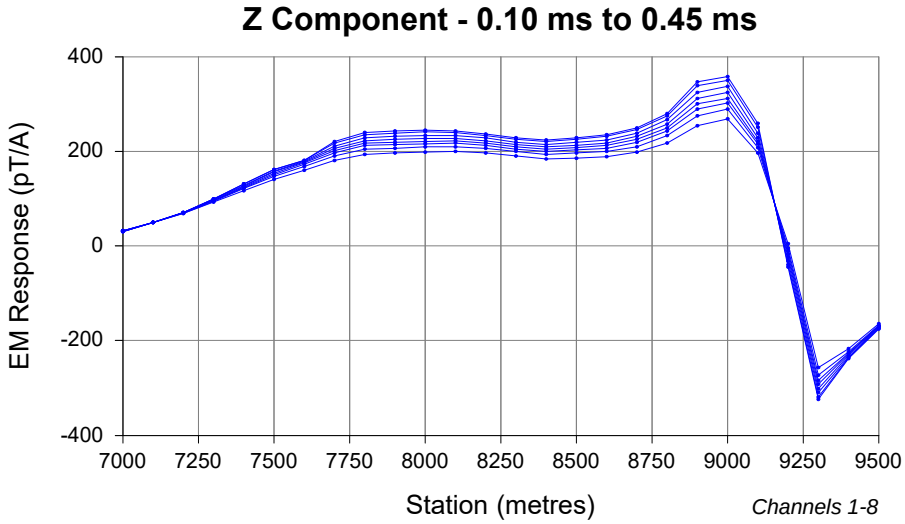








WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	17	: 3.184
2	: 0.1245	18	: 3.953
3	: 0.1540	19	: 4.908
4	: 0.1910	20	: 6.093
5	: 0.2375	21	: 7.564
6	: 0.2950	22	: 9.390
7	: 0.3660	23	: 11.66
8	: 0.4545	24	: 14.47
9	: 0.5645	25	: 17.97
10	: 0.7005	26	: 22.31
11	: 0.8695	27	: 27.69
12	: 1.080	28	: 34.38
13	: 1.341	29	: 42.68
14	: 1.664	30	: 52.99
15	: 2.066	31	: 65.79
16	: 2.565	32	: 81.67

SURVEY PARAMETERS

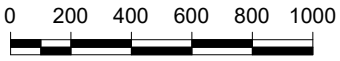
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5850E - LOOP 2

Surveyed By: Connor Harrison
Survey Date: September 2017

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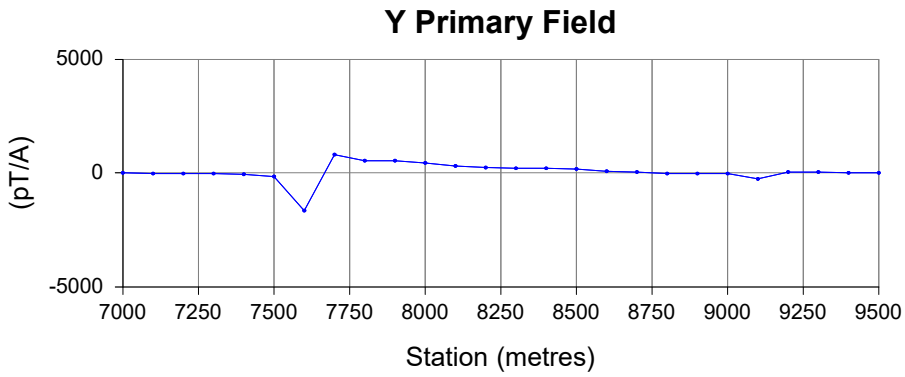

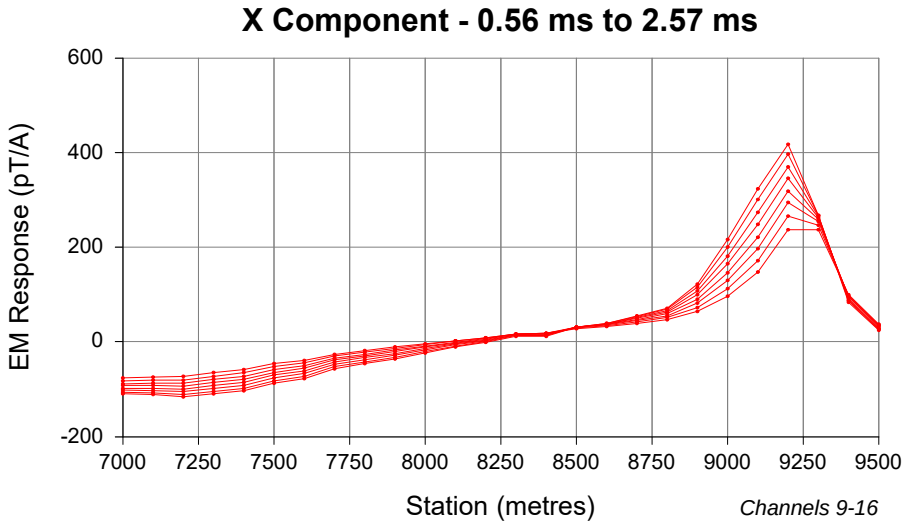

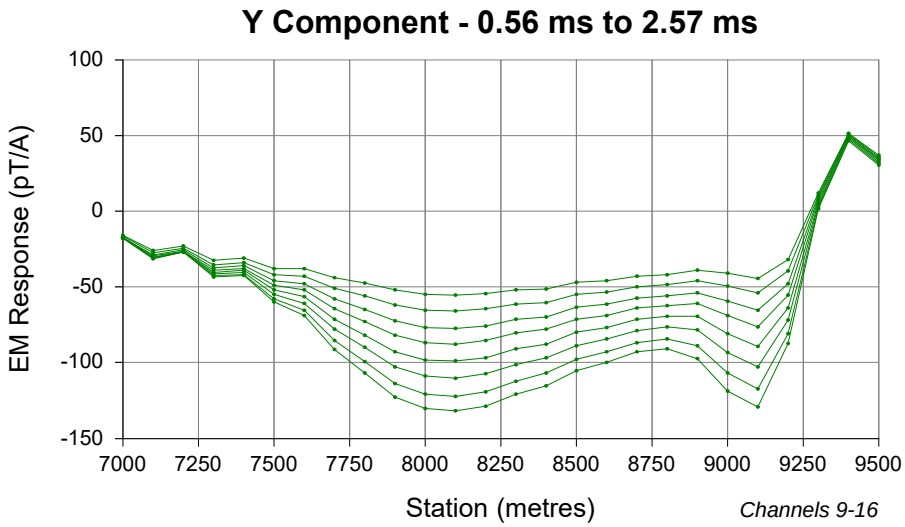

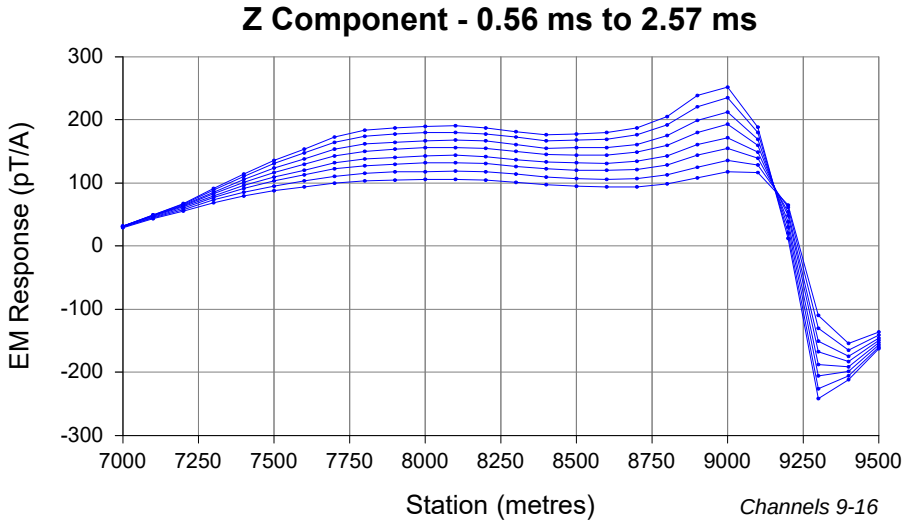

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	17	: 3.184
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16	: 2.565	32	: 81.67

SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
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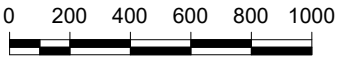
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

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Fixed-Loop TEM Survey
L5850E - LOOP 2

Surveyed By: Connor Harrison
Survey Date: September 2017

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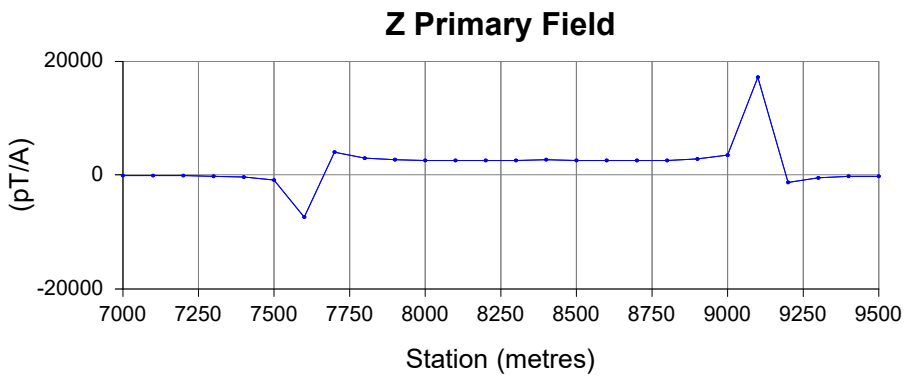

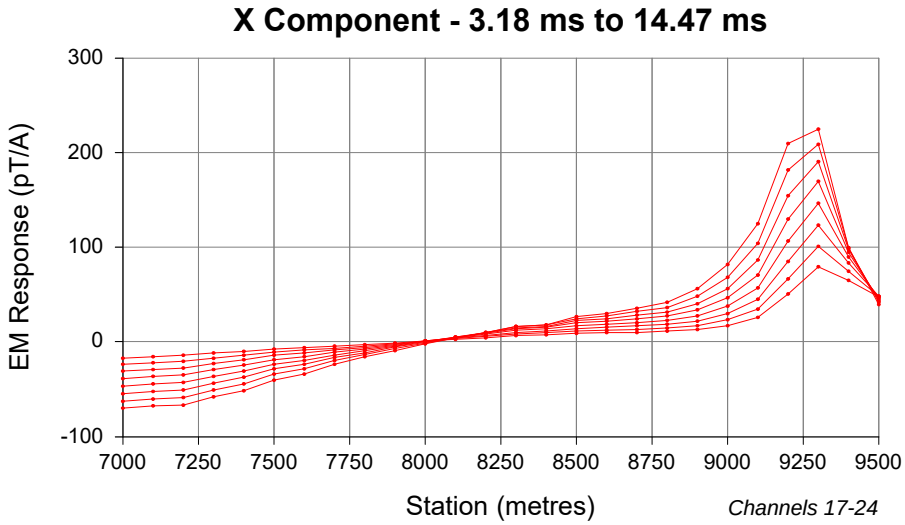

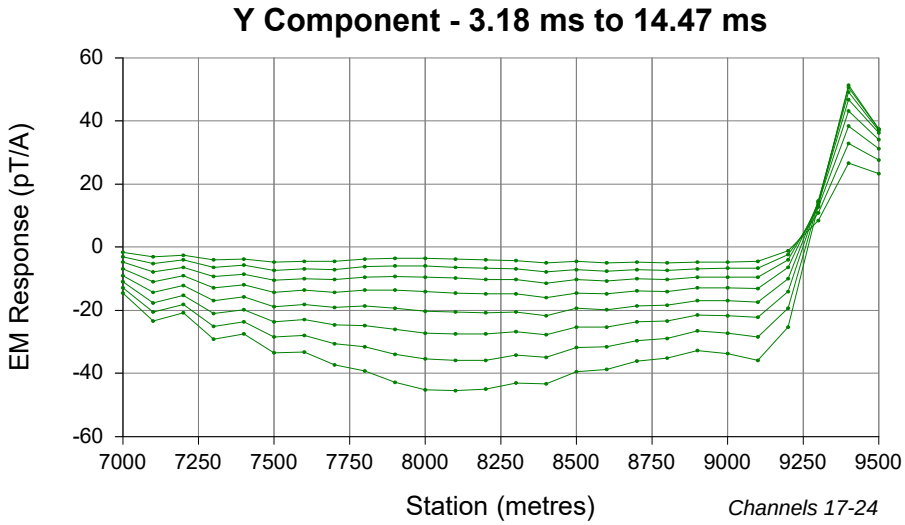

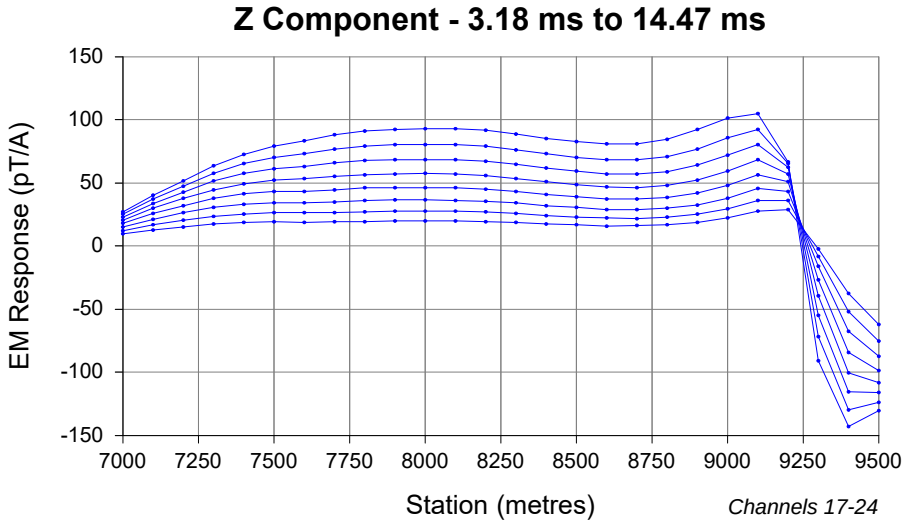

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From the end of the Turn-Off Ramp

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15	: 2.066	31	: 65.79
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SURVEY PARAMETERS

Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
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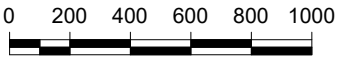
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

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EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5850E - LOOP 2

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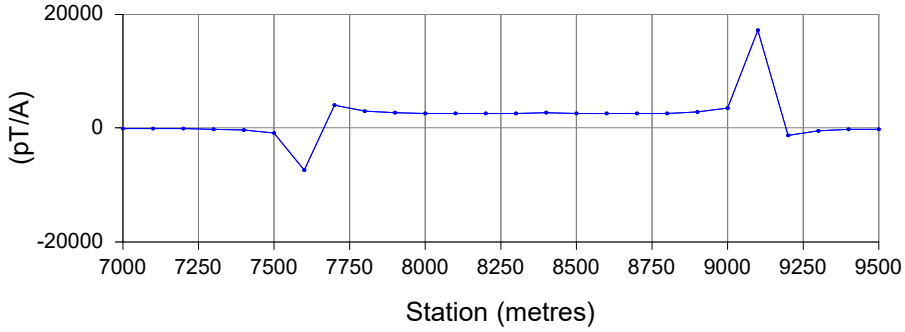
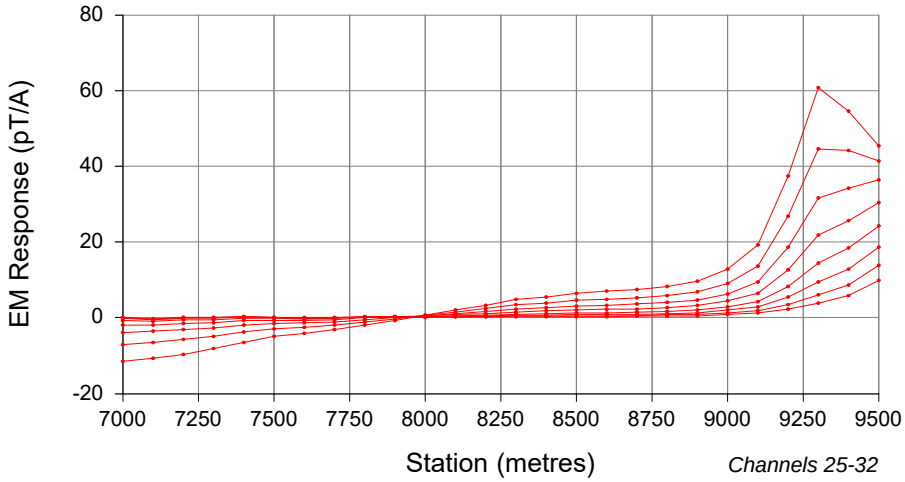
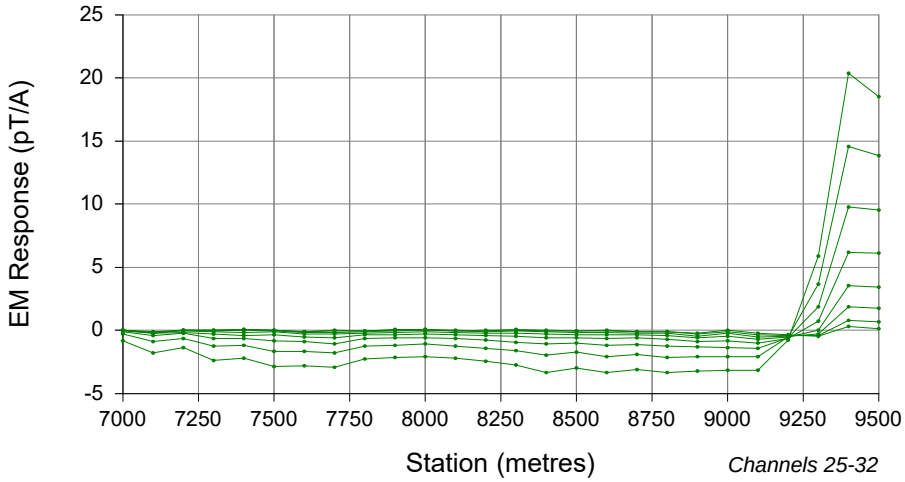
Z Primary Field



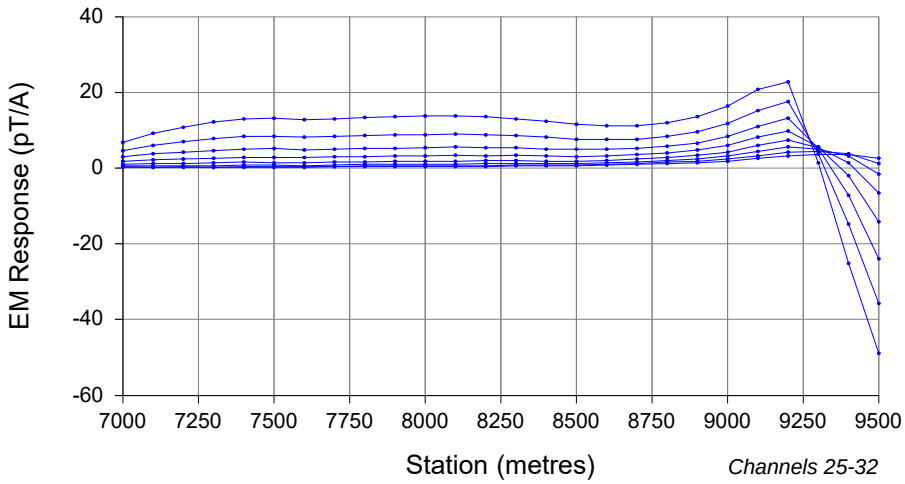
X Component - 17.97 ms to 81.67 ms



Y Component - 17.97 ms to 81.67 ms



Z Component - 17.97 ms to 81.67 ms



WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	17	: 3.184
2	: 0.1245	18	: 3.953
3	: 0.1540	19	: 4.908
4	: 0.1910	20	: 6.093
5	: 0.2375	21	: 7.564
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12	: 1.080	28	: 34.38
13	: 1.341	29	: 42.68
14	: 1.664	30	: 52.99
15	: 2.066	31	: 65.79
16	: 2.565	32	: 81.67

SURVEY PARAMETERS

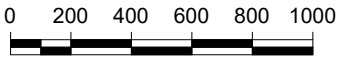
Configuration	: Fixed-Loop TEM
Station Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 2.5 Hz
Component	: Z,X,Y
Rx Sensor	: EMIT SMART Fluxgate

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 2
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.7 ms



Scale 1:25000

BMC Minerals Ltd.
Kudz Ze Kayah Project
EMIT SMART Fluxgate
Fixed-Loop TEM Survey
L5850E - LOOP 2

Surveyed By: Connor Harrison
Survey Date: September 2017

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APPENDIX E - BOREHOLE TEM PROFILES

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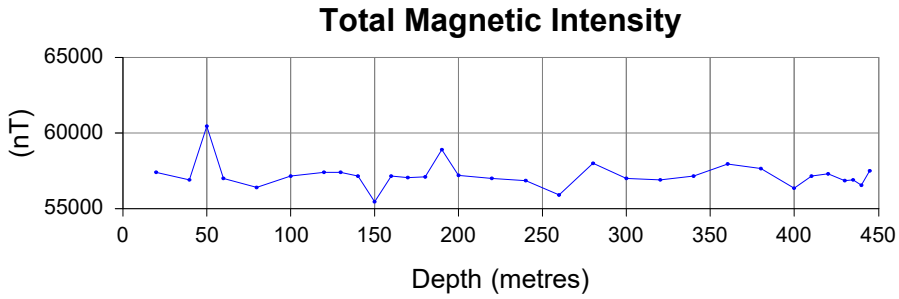

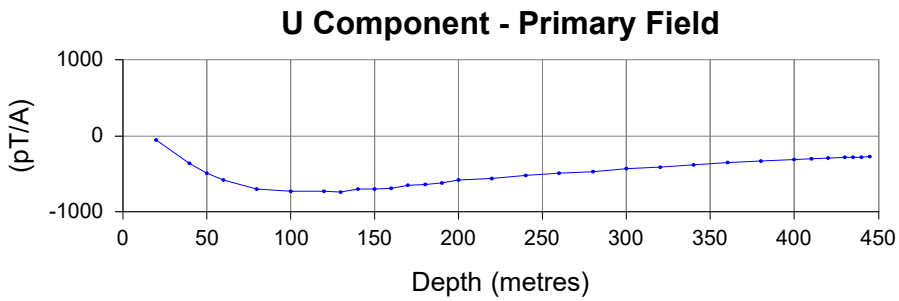

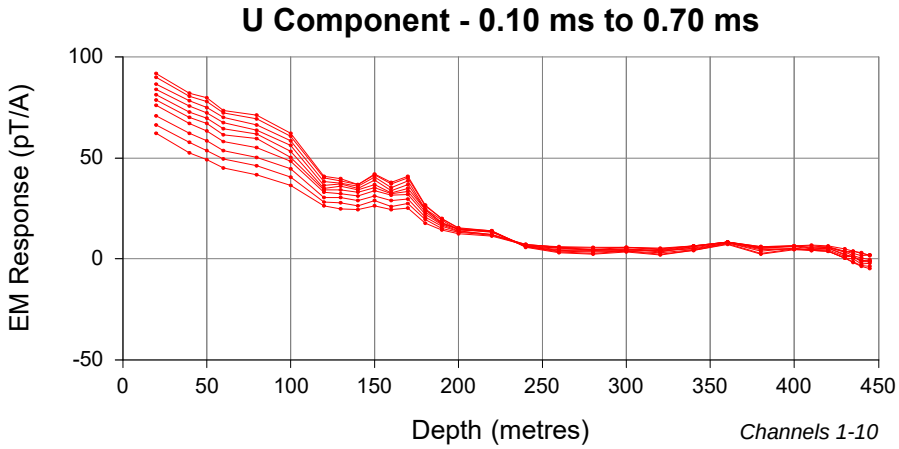

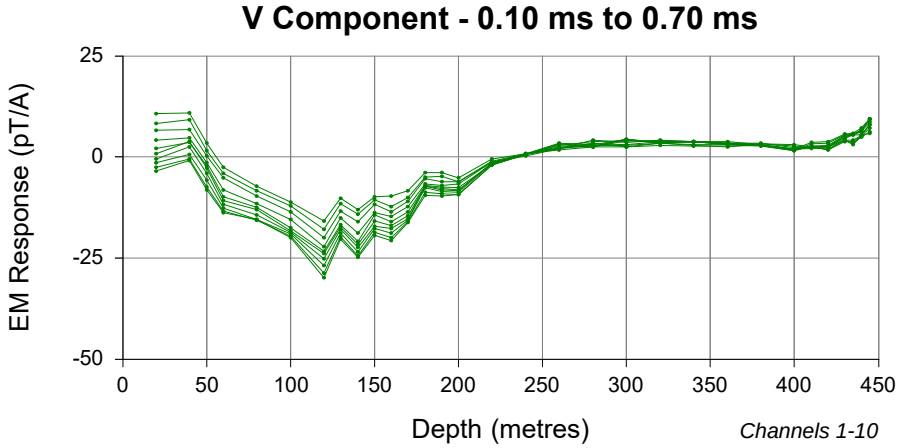

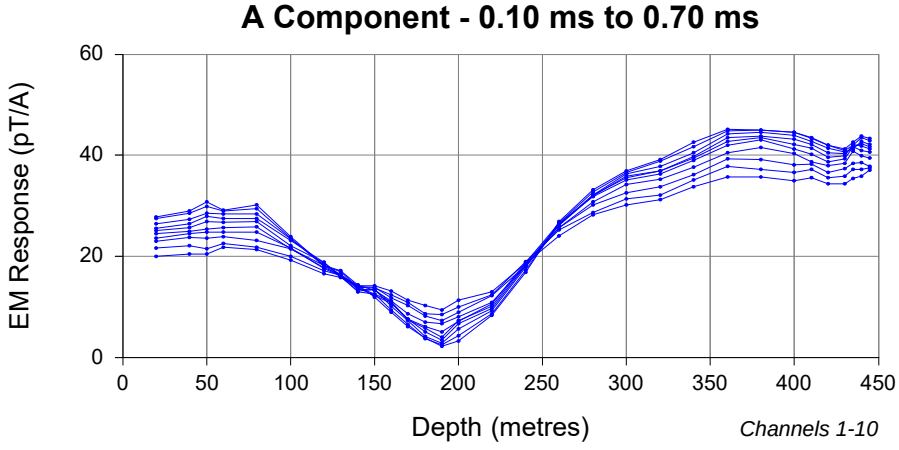

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
8	: 0.4545	23	: 11.66
9	: 0.5645	24	: 14.47
10	: 0.7005	25	: 17.97
11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

Configuration	: Downhole
Station Spacing	: 5-20 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: A,U,V
Rx Sensor	: Digi-Atlantis B-Field

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 10.0 A
Turn Off	: 1.2 ms

Scale 1:4500

BMC Minerals Ltd.
Kudz Ze Kayah Project
Borehole TEM Survey

K17-447 - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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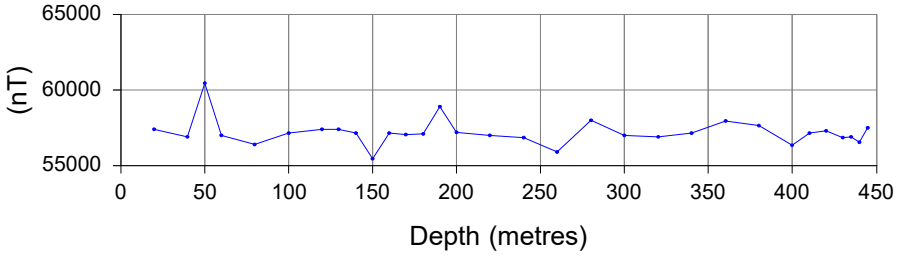
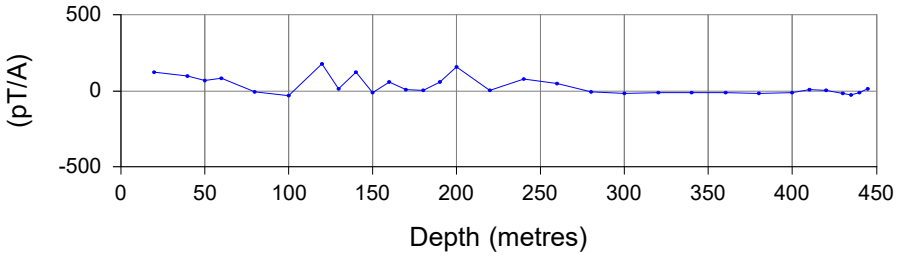
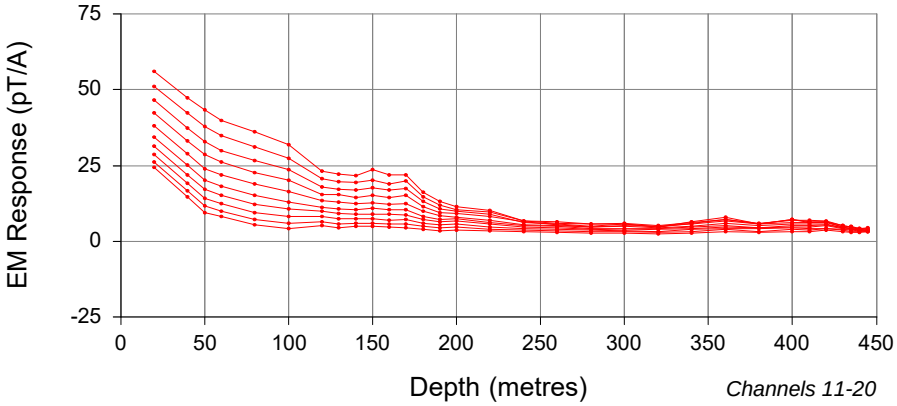
Total Magnetic Intensity



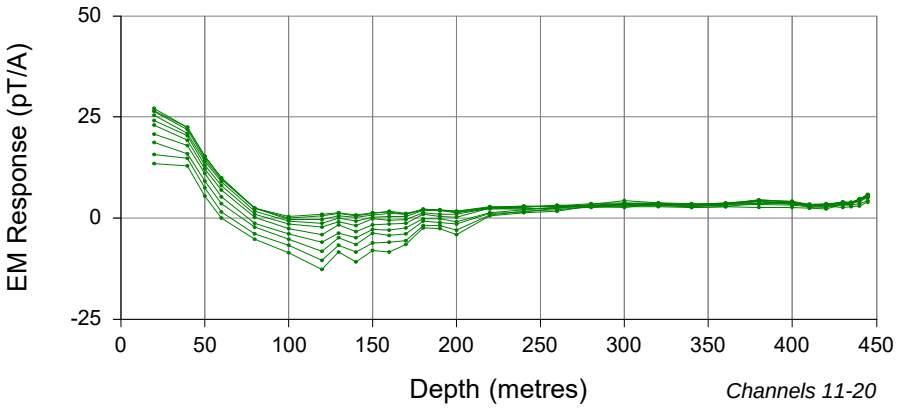
V Component - Primary Field



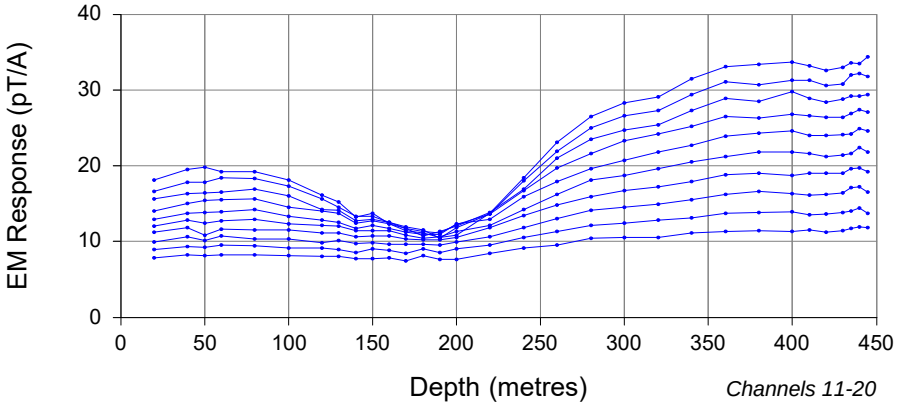
U Component - 0.87 ms to 6.09 ms



V Component - 0.87 ms to 6.09 ms



A Component - 0.87 ms to 6.09 ms



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15	: 2.066		

SURVEY PARAMETERS

Configuration	: Downhole
Station Spacing	: 5-20 m

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Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: A,U,V
Rx Sensor	: Digi-Atlantis B-Field

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 10.0 A
Turn Off	: 1.2 ms

Scale 1:4500

BMC Minerals Ltd.
Kudz Ze Kayah Project
Borehole TEM Survey

K17-447 - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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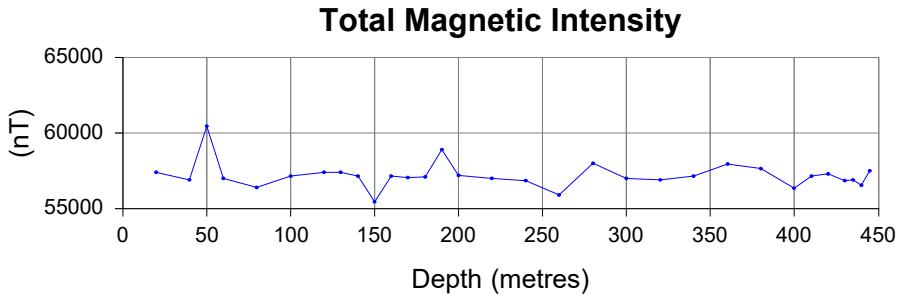

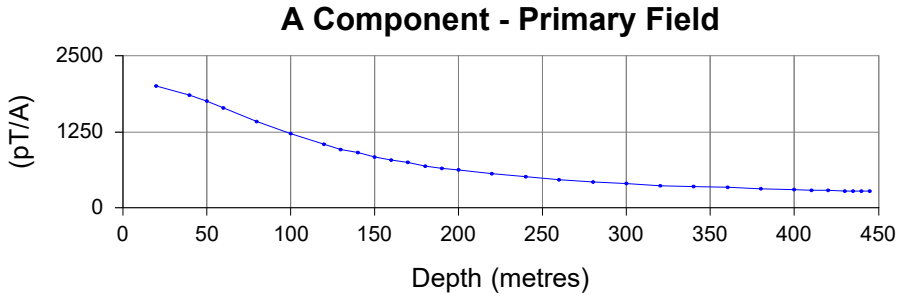

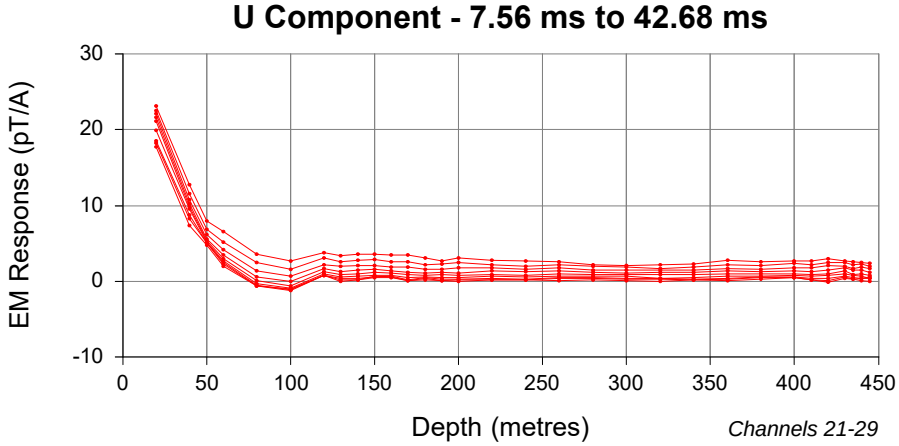

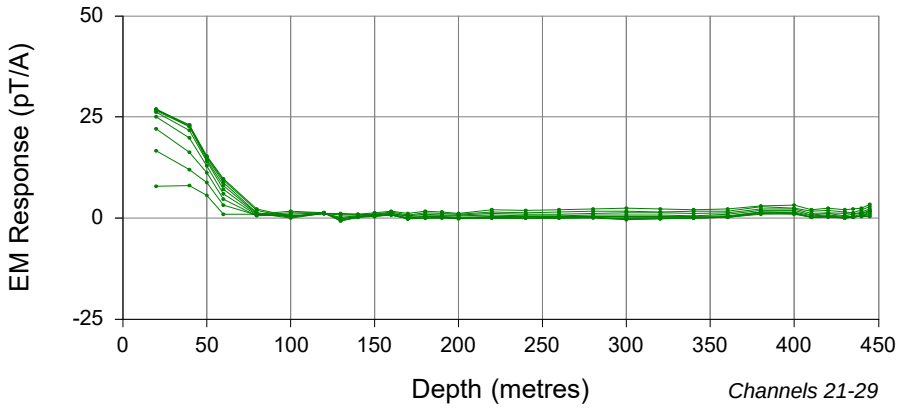

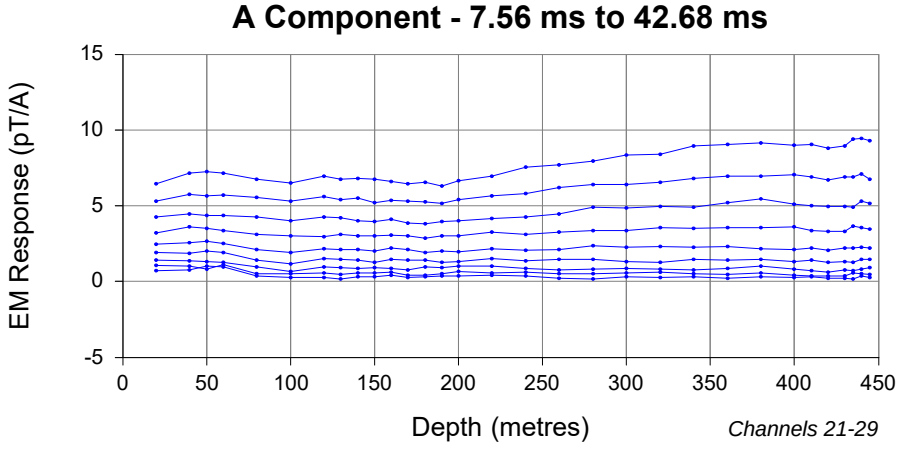

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From the end of the Turn-Off Ramp

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12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

Configuration	: Downhole
Station Spacing	: 5-20 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: A,U,V
Rx Sensor	: Digi-Atlantis B-Field

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 10.0 A
Turn Off	: 1.2 ms

Scale 1:4500

BMC Minerals Ltd.
Kudz Ze Kayah Project
Borehole TEM Survey

K17-447 - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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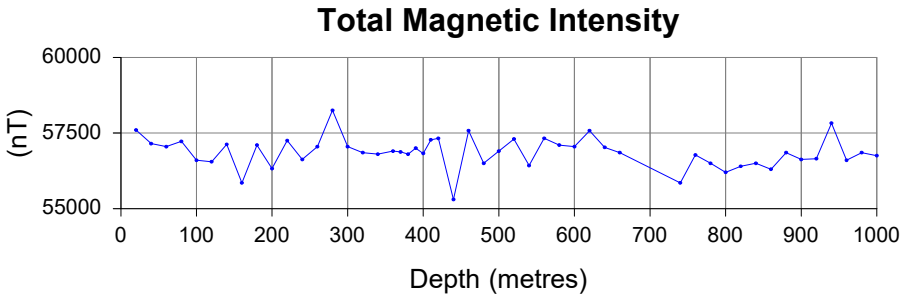
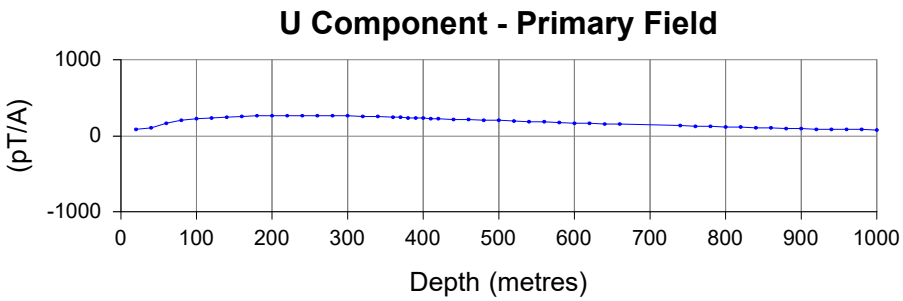
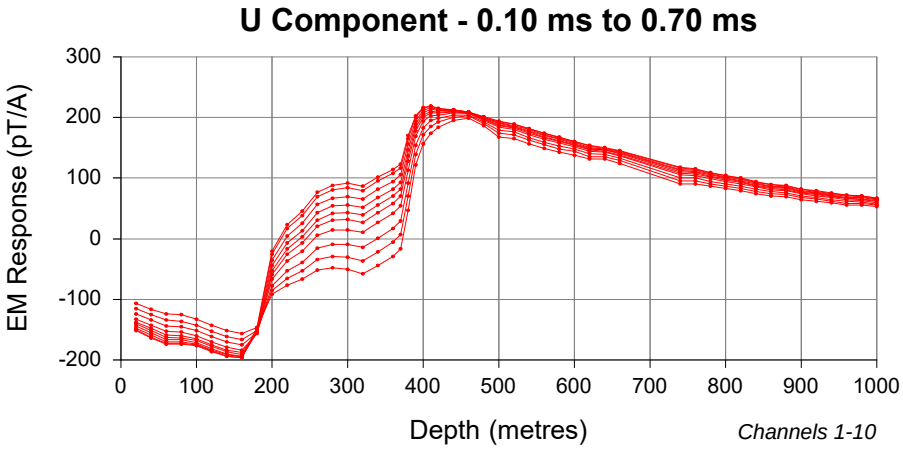
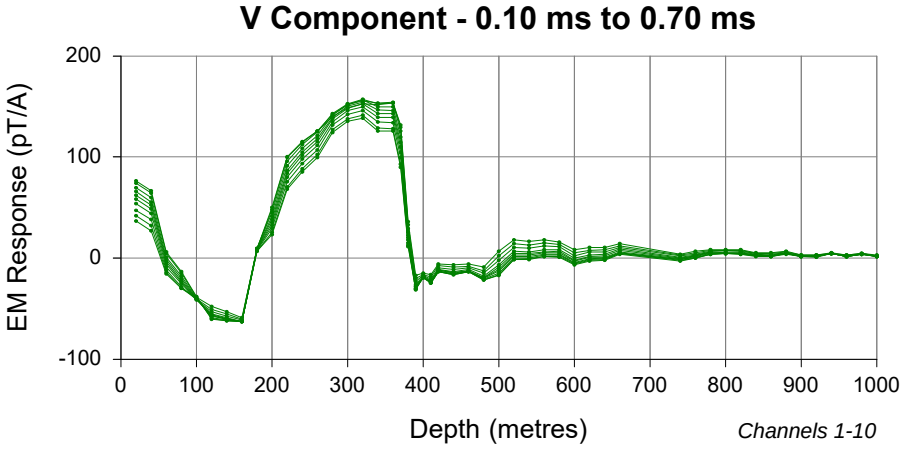
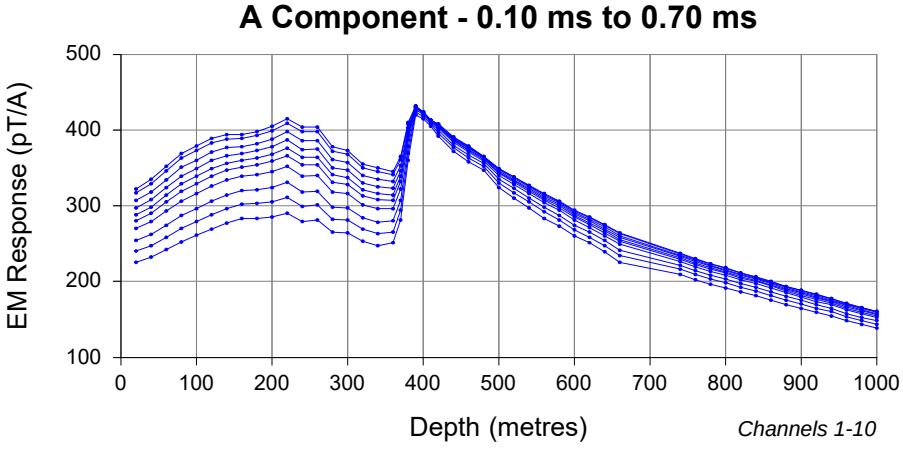
147 Robin Crescent
Saskatoon, SK, S7L 6M3
www.discogeo.com











WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
8	: 0.4545	23	: 11.66
9	: 0.5645	24	: 14.47
10	: 0.7005	25	: 17.97
11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

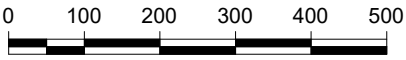
Configuration	: Downhole
Station Spacing	: 10-80 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: A,U,V
Rx Sensor	: Digi-Atlantis B-Field

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20.0 A
Turn Off	: 0.7 ms



Scale 1:10000

BMC Minerals Ltd.
Kudz Ze Kayah Project
Borehole TEM Survey

K17-448 - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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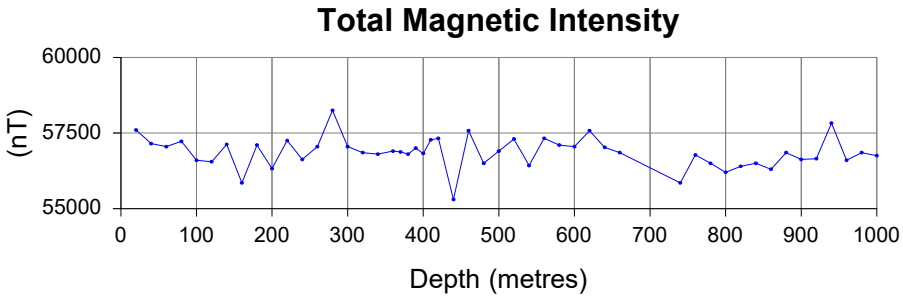
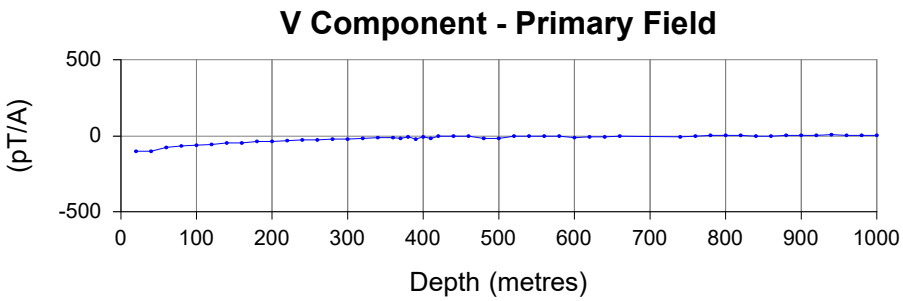
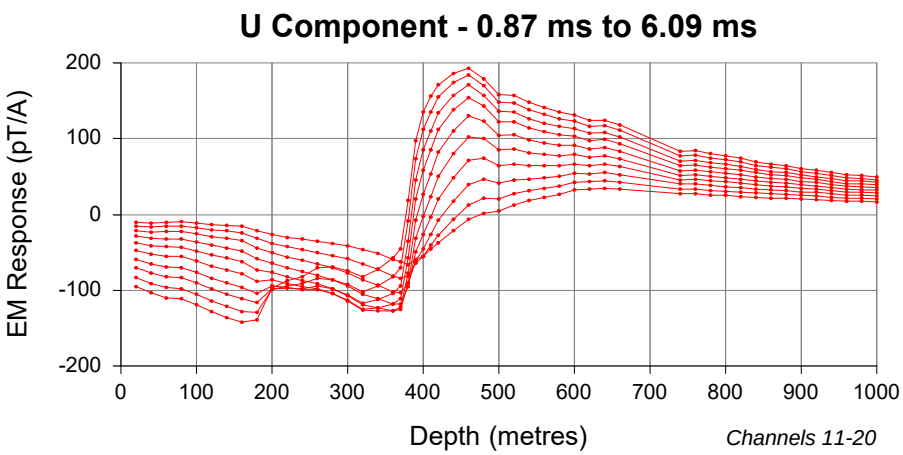
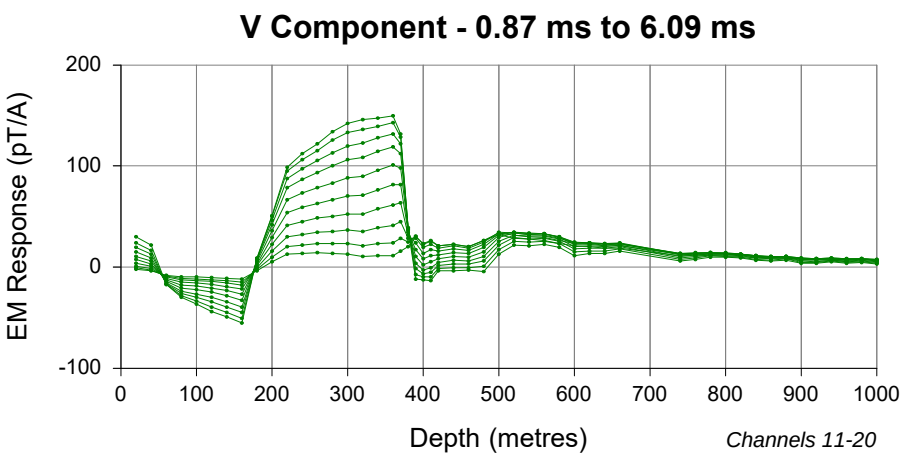
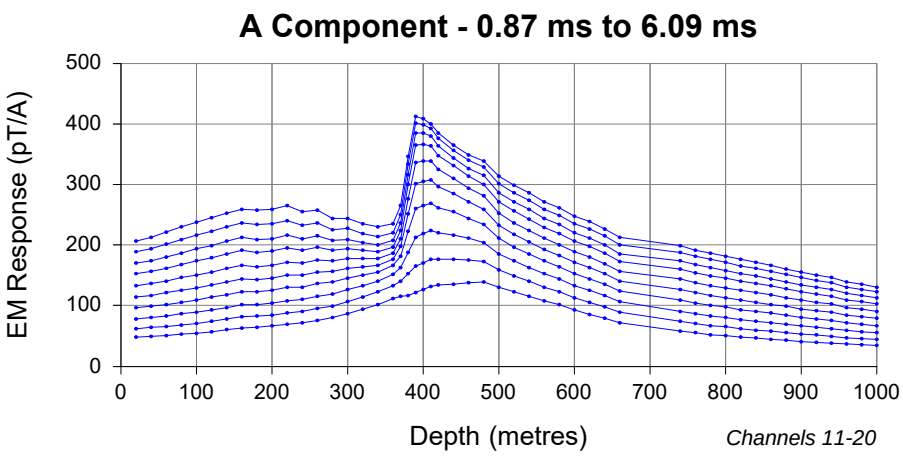










WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
5	: 0.2375	20	: 6.093
6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
8	: 0.4545	23	: 11.66
9	: 0.5645	24	: 14.47
10	: 0.7005	25	: 17.97
11	: 0.8695	26	: 22.31
12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

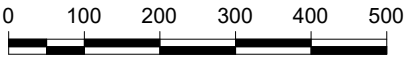
Configuration	: Downhole
Station Spacing	: 10-80 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: A,U,V
Rx Sensor	: Digi-Atlantis B-Field

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20.0 A
Turn Off	: 0.7 ms



Scale 1:10000

BMC Minerals Ltd.
Kudz Ze Kayah Project
Borehole TEM Survey

K17-448 - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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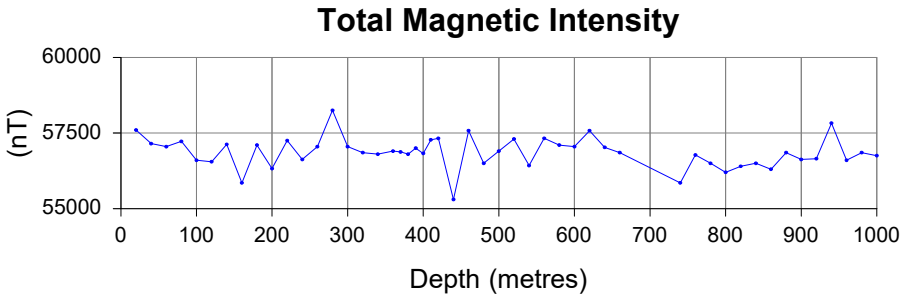

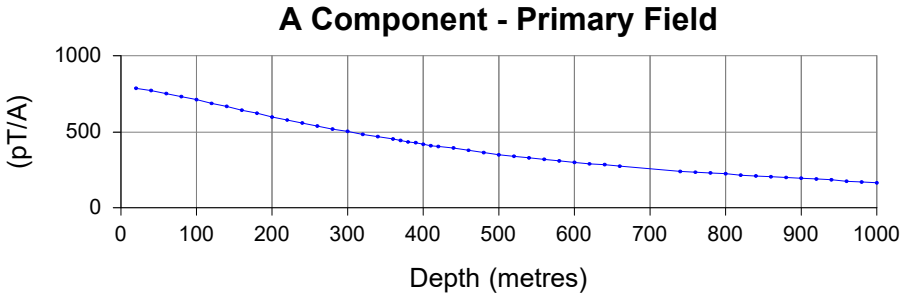

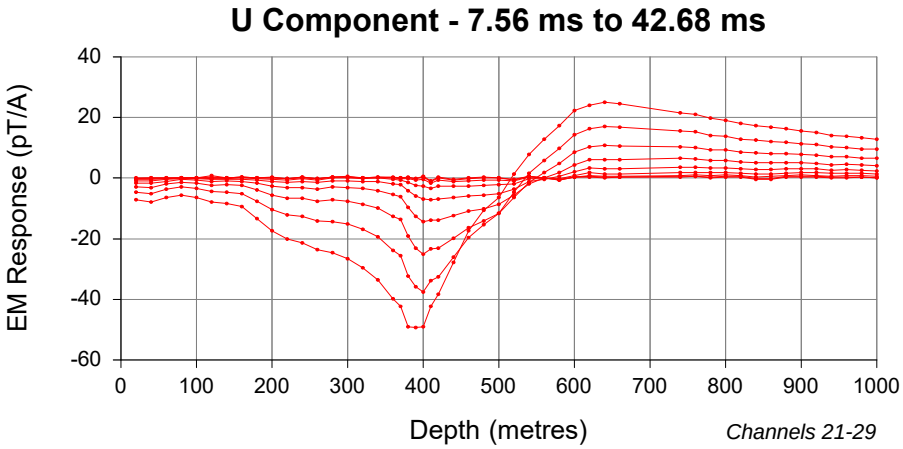

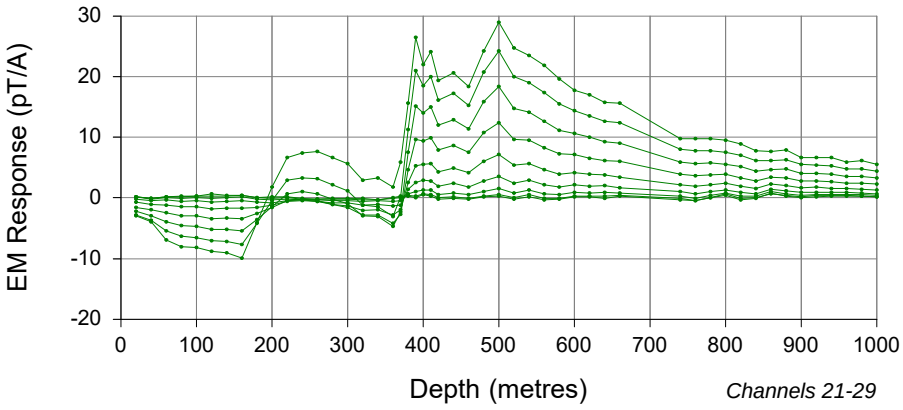

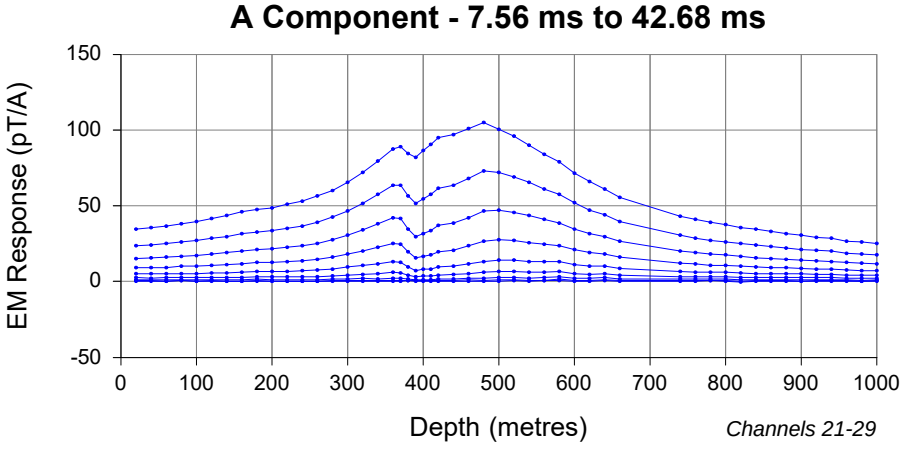

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
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8	: 0.4545	23	: 11.66
9	: 0.5645	24	: 14.47
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13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

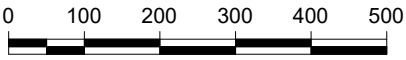
Configuration	: Downhole
Station Spacing	: 10-80 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: A,U,V
Rx Sensor	: Digi-Atlantis B-Field

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 1
Tx Loop Side	: 2000 m x 1500 m
Tx Turns	: 1
Tx Current	: 20.0 A
Turn Off	: 0.7 ms



Scale 1:10000

BMC Minerals Ltd.
Kudz Ze Kayah Project
Borehole TEM Survey

K17-448 - LOOP 1

Surveyed By: Connor Harrison
Survey Date: September 2017

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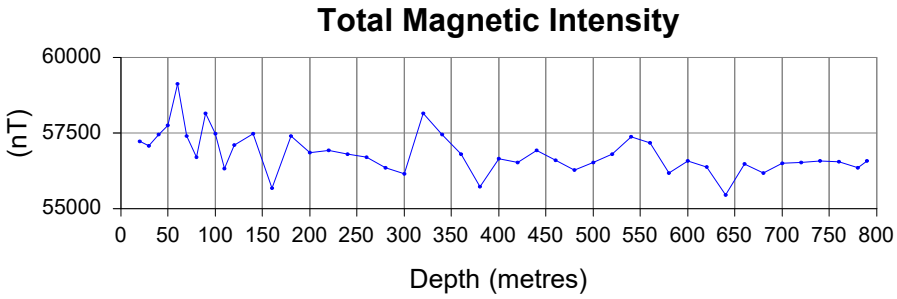

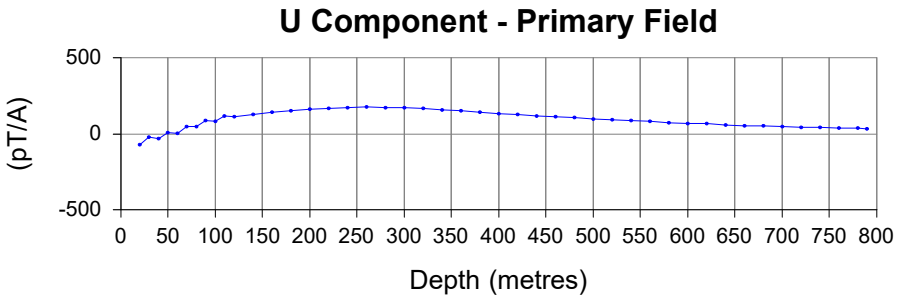

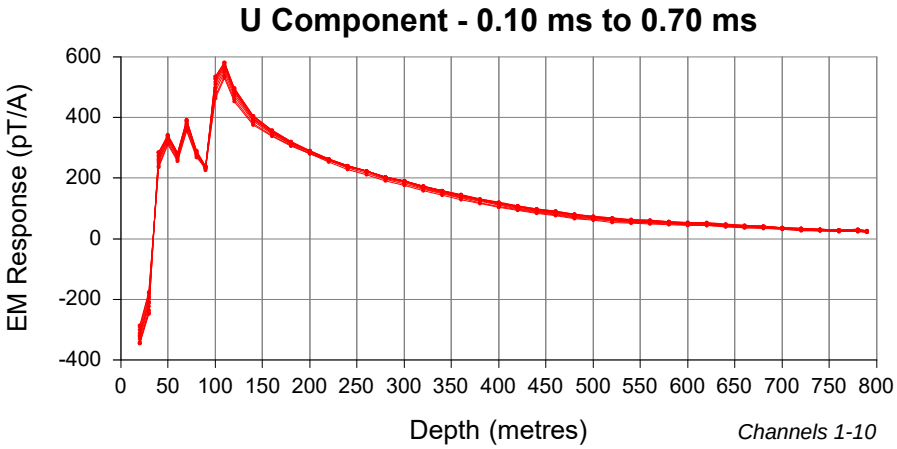

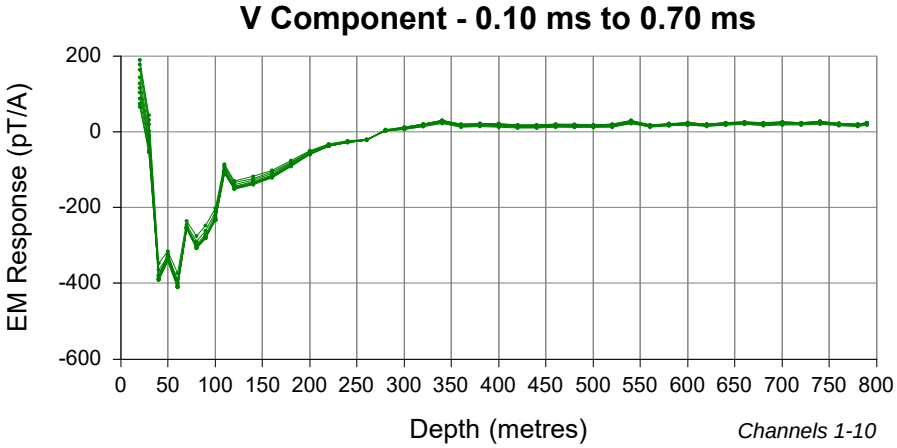

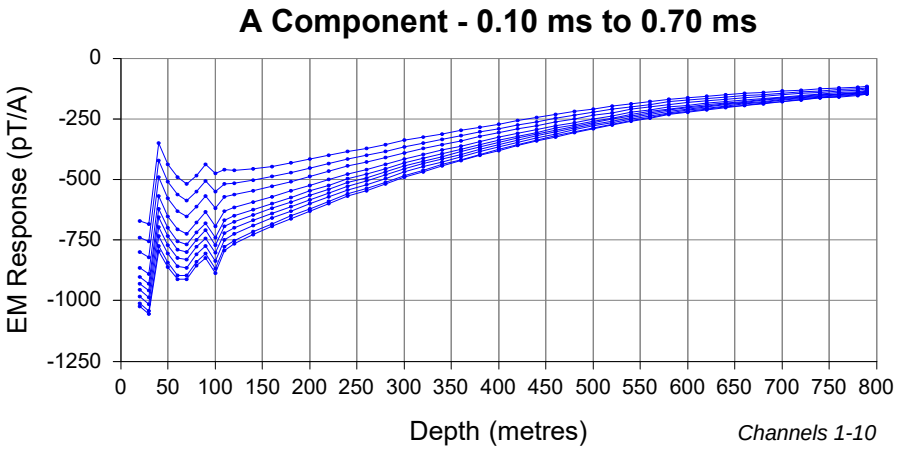

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
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6	: 0.2950	21	: 7.564
7	: 0.3660	22	: 9.390
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12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

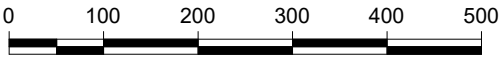
Configuration	: Downhole
Station Spacing	: 10-20 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: A,U,V
Rx Sensor	: Digi-Atlantis B-Field

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 3
Tx Loop Side	: 900 m x 900 m
Tx Turns	: 1
Tx Current	: 28.0 A
Turn Off	: 0.7 ms



Scale 1:8000

BMC Minerals Ltd.
Kudz Ze Kayah Project
Borehole TEM Survey

K17-449 - LOOP 3

Surveyed By: Connor Harrison
Survey Date: September 2017

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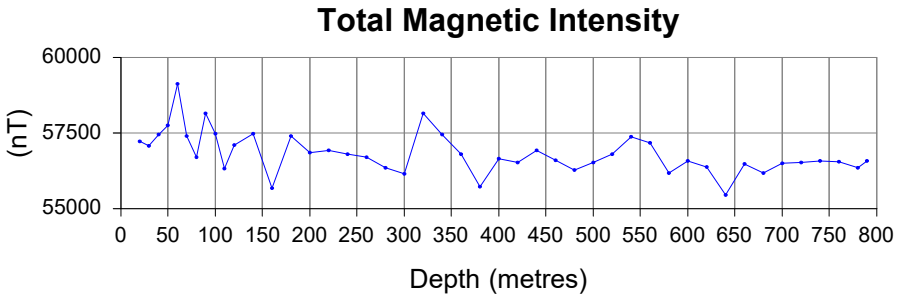

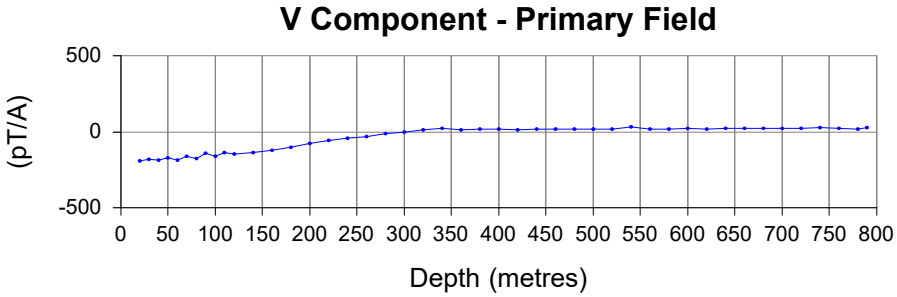

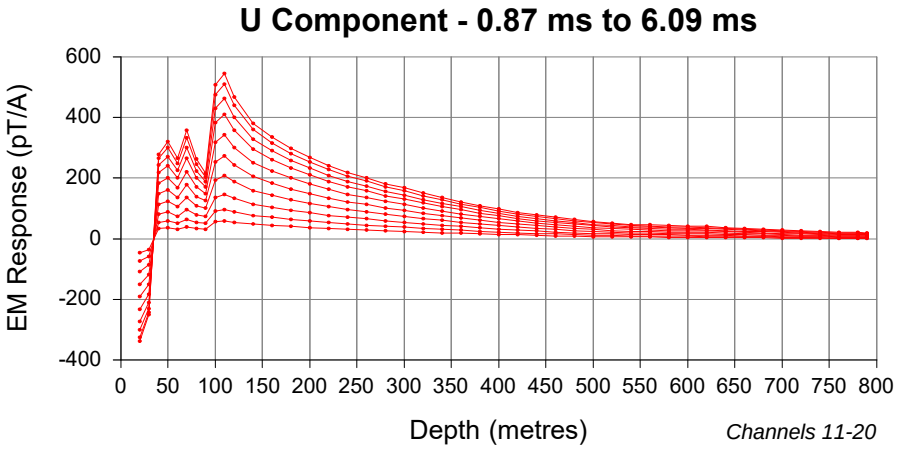

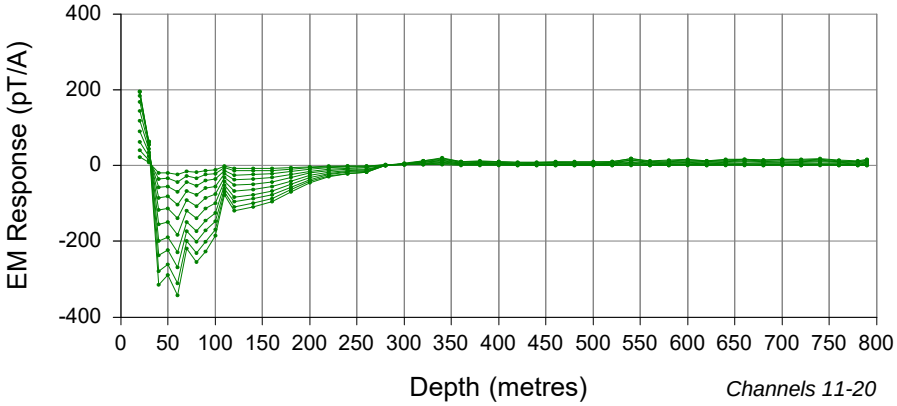

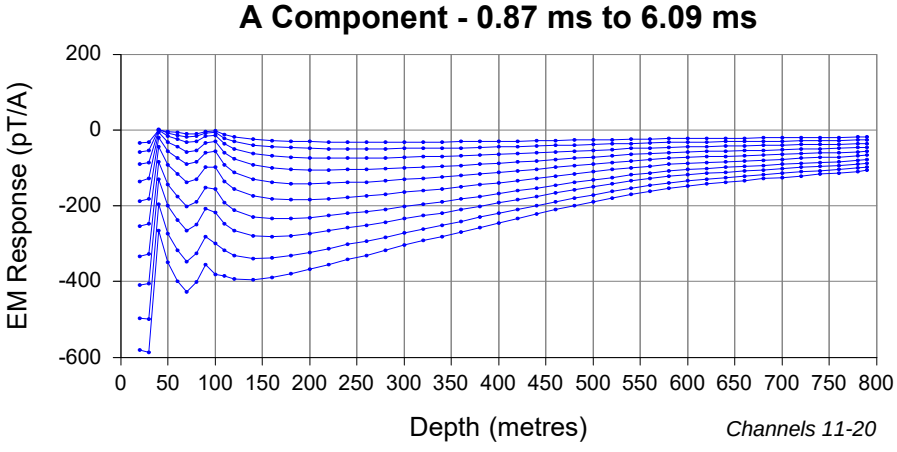

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
4	: 0.1910	19	: 4.908
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13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

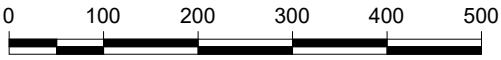
Configuration	: Downhole
Station Spacing	: 10-20 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: A,U,V
Rx Sensor	: Digi-Atlantis B-Field

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 3
Tx Loop Side	: 900 m x 900 m
Tx Turns	: 1
Tx Current	: 28.0 A
Turn Off	: 0.7 ms



Scale 1:8000

BMC Minerals Ltd.
Kudz Ze Kayah Project
Borehole TEM Survey

K17-449 - LOOP 3

Surveyed By: Connor Harrison
Survey Date: September 2017

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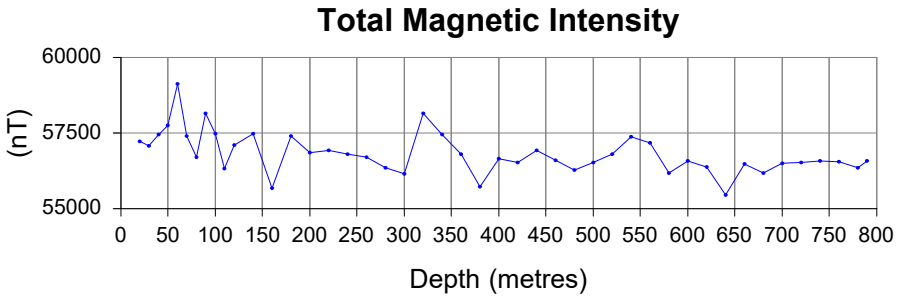

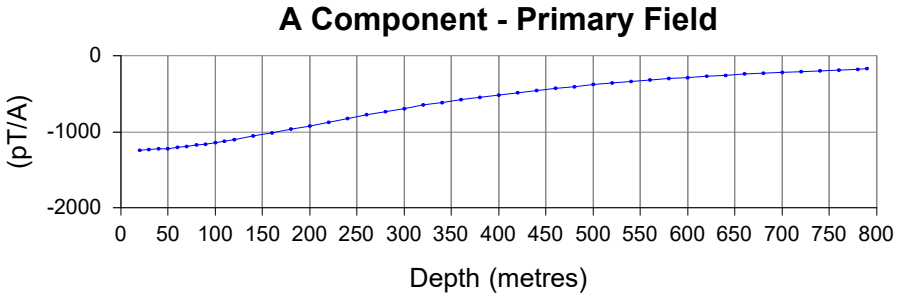

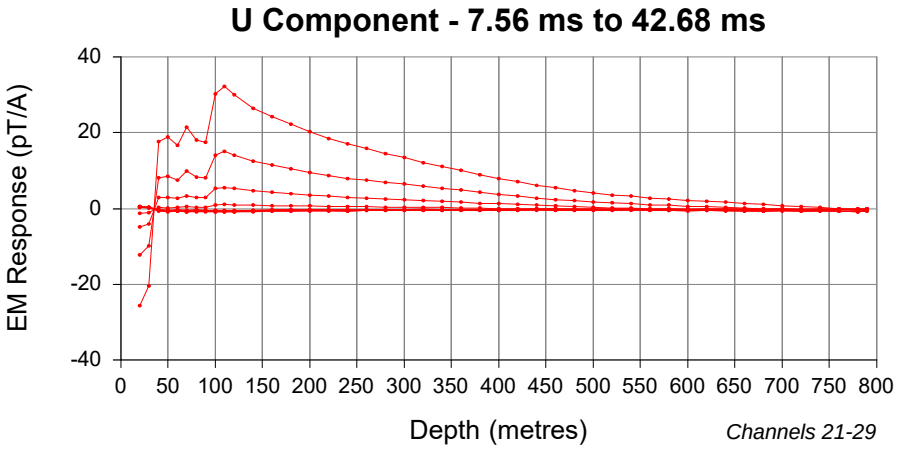

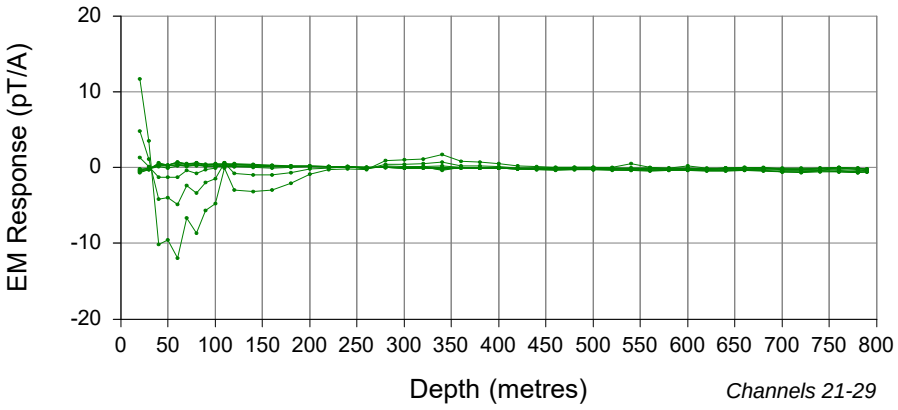

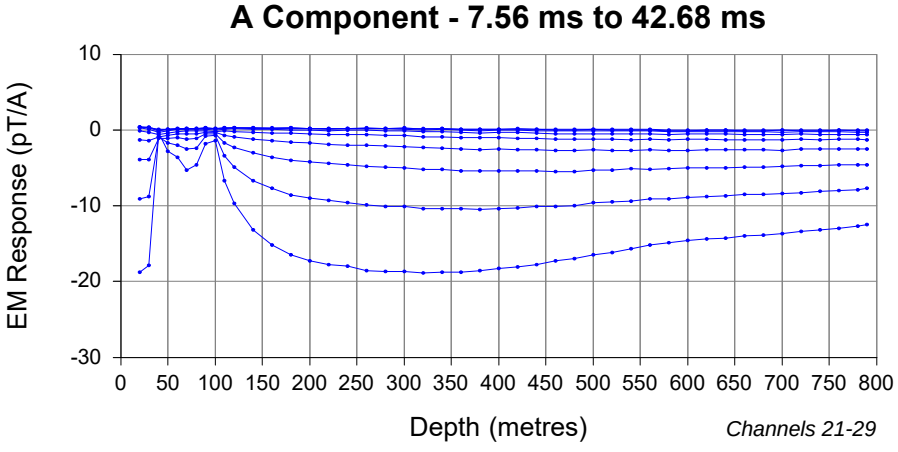

WINDOW TIMES (ms): Centre
From the end of the Turn-Off Ramp

1	: 0.0995	16	: 2.565
2	: 0.1245	17	: 3.184
3	: 0.1540	18	: 3.953
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9	: 0.5645	24	: 14.47
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12	: 1.080	27	: 27.69
13	: 1.341	28	: 34.38
14	: 1.664	29	: 42.68
15	: 2.066		

SURVEY PARAMETERS

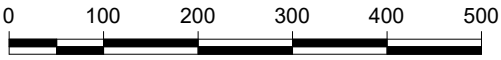
Configuration	: Downhole
Station Spacing	: 10-20 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 5 Hz
Component	: A,U,V
Rx Sensor	: Digi-Atlantis B-Field

TRANSMITTER

Transmitter	: Phoenix TXU-30
Loop	: Loop 3
Tx Loop Side	: 900 m x 900 m
Tx Turns	: 1
Tx Current	: 28.0 A
Turn Off	: 0.7 ms



Scale 1:8000

BMC Minerals Ltd.
Kudz Ze Kayah Project
Borehole TEM Survey

K17-449 - LOOP 3

Surveyed By: Connor Harrison
Survey Date: September 2017

Discovery International Geophysics
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Appendix P: Acoustic Impedance Measurements

Appendix P: Acoustic Impedance

Geophysical data

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K15-227	Calibration	2700					2700				
K15-227	11.3	4020	4010	3990	986	628	4006.667	2.75419	11.03512	Rhyv lapilli, weak foliation, sulphides bands, minor deformation	FC
K15-227	12.5	2160	2240	2780	353	238	2393.333	3.069565	7.346493	RHYv, globby Quartz, contact w/ semi-massive pyrite	HC
K15-227	14.1	4840	4970	5170	530	412	4993.333	4.491525	22.42768	massive sulphide (Pyrite)	HC
K15-227	15.3	4210	4550	4980	483	375	4580	4.472222	20.48278	massive sulphide (Pyrite), fractured	HC
K15-227	18.7	2310	2390	2300	316	202	2333.333	2.77193	6.467836	RHY, Muscovite alteration, weak foliation, minor sulphides	HC
K15-227	20.3	3140	3320	3090	292	187	3183.333	2.780952	8.852698	RHY, Muscovite alteration, weak foliation with calcite	HC
K15-227	40.1	3460	3500	3690	322	200	3550	2.639344	9.369672	RHY, minor sulphides, Quartz veins, weak foliation	HC
K15-227	43.5	2700	2250	2810	718	458	2586.667	2.761538	7.143179	RHY tuff with lapilli, weak foliation, Quartz vein	FC
K15-227	44.1	4500	4070	4590	1241	783	4386.667	2.709607	11.88614	RHY tuff lapilli, high Silica, weak foliation	FC
K15-227	45.5	2960	4420	2980	836	529	3453.333	2.723127	9.403865	RHY tuff lapilli high Silica weak foliation	FC
K15-227	65.7	3320	3760	3460	653	414	3513.333	2.732218	9.599191	Muscovite+Quartz, strong foliation	FC
K15-227	66.4	2240	2190	1880	810	515	2103.333	2.745763	5.775254	Muscovite+Quartz, strong foliation, fractures along core axis	FC
K15-227	61.2	3590	3690	3870	1088	690	3716.667	2.733668	10.16013	Muscovite+Quartz, moderate foliation	FC
K15-227	60.6	3500	4520	3940	1051	685	3986.667	2.871585	11.44805	Chlorite+Biotite alteration w/ Calcite	FC
K15-227	59.9	3160	4560	3690	814	521	3803.333	2.778157	10.56626	Muscovite+Quartz, strong foliation	FC
K15-227	69.2	2870	2820	2320	603	388	2670	2.804651	7.488419	Mafic, disseminated sulphides, Biotite weak foliation	FC
K15-227	69.6	2920	2730	2940	827	530	2863.333	2.784512	7.972985	Ash tuff, disseminated sulphides, Biotite crystals, no foliation	FC
K15-227	71.2	2820	3020	2900	1202	769	2913.333	2.775982	8.08736	Ash tuff, Quartz+ Calcite veins, no foliation, disseminated sulphides	FC
K15-227	72	2000	2100	2140	1078	693	2080	2.8	5.824	Ash tuff w/ Biotite, Quartz+ Calcite veins	FC
K15-227	73	2240	2050	2440	930	594	2243.333	2.767857	6.209226	Ash tuff w/ carbonate layers, minor deformation, Biotite specs	FC
K15-227	74.3	2520	2510	2580	1046	666	2536.667	2.752632	6.982509	Ash tuff, no foliation, Quartz+carbonate veins	FC
K15-227	75.3	2760	2850	2850	874	558	2820	2.765823	7.79962	Ash tuff, no foliation, Quartz+carbonate veins	FC
K15-227	77.6	2550	2980	2750	770	501	2760	2.862454	7.900372	Chlorite+Biotite matrix w/ calcite, pelite altered to mafic	FC
K15-227	78	2230	2240	2190	757	492	1581.8	2.856604	4.518576	Mafic Chlorite+Biotite+Calcite	FC
K15-227	80.6	3100	3100	3060	898	575	3086.667	2.780186	8.581507	Muscovite+Quartz, moderate foliation, disseminated sulphides	FC
K15-227	81	1960	2320	2140	1064	674	2140	2.728205	5.838359	Highly Silicious, Quartz+Muscovite, moderate foliation, fracture along core axis	FC
K15-227	81.8	2420	2360	2450	1188	746	2410	2.687783	6.477557	Highly Silicious, Quartz+Muscovite, moderate foliation	FC
K15-227	82.3	4400	4670	4690	1112	717	4586.667	2.81519	12.91234	Highly Silicious, Quartz+Muscovite, moderate foliation	FC
K15-227	83.8	4260	3710	3760	757	482	3910	2.752727	10.76316	Ash tuff, moderate foliation, Quartz banding	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K15-227	85.4	3340	3300	3260	1141	720	3300	2.710214	8.943705	Massive Calcite vein	FC
K15-227	Calibration	2700					2700			end of hole Calibration15:00	
K15-231	Calibration	2740					2740			Start of hole 17:00	
K15-231	13.2	1470	1630	1910	936	787	1670	6.281879	10.49074	RHY, no foliation, moderate fractured	FC
K15-231	13.7	1830	1810	1630	753	477	1756.667	2.728261	4.792645	RHYcw, heavily fractured with healed fractures	FC
K15-231	14.8	1680	1810	1610	772	448	1700	2.382716	4.050617	RHYcw, no foliation, fractured	FC
K15-231	15.5	1560	1430	1660	772	495	1550	2.787004	4.319856	RHYcw, fractured with disseminated sulphide vein	FC
K15-231	18.4	2830	2840	2910	865	551	2860	2.754777	7.878662	RHYcw with foliation, curdy quartz	FC
K15-231	18.7	2740	2880	2980	797	507	2866.667	2.748276	7.878391	RHYcw, no foliation, curdy-globby quartz	FC
K15-231	19.8	2280	2240	2210	942	600	2243.333	2.754386	6.179006	RHYcw, no foliation, curdy-globby quartz	FC
K15-231	Calibration	2690					2690			Morning calibration 8:10	FC
K15-231	25.1	1690	1690	1650	713	454	1676.667	2.752896	4.615689	MDSw, some healed fractures, no foliation.	FC
K15-231	29.6	1810	1960	1830	1122	715	1866.667	2.756757	5.145946	MDSw, no healed fractures, no foliation	FC
K15-231	30.5	1920	1620	2040	1385	883	1860	2.758964	5.131673	MDSw, no healed fractures , no foliation	FC
K15-231	31.5	2180	2220	2220	1054	669	2206.667	2.737662	6.041108	MDSw, no healed fractures, quartz veining,	FC
K15-231	36.7	2210	2010	2100	957	613	1578	2.781977	4.389959	MDSw no healed fractures, no foliation	FC
K15-231	37.6	1950	2380	2090	819	525	2140	2.785714	5.961429	MDSw, carbonaceous with disseminated sulfides, no healed fractures	FC
K15-231	39.5	1750	1660	1900	738	469	1770	2.743494	4.855985	MDSw, quartz bleb with veining, minor fractures, minor disseminated sulphides	FC
K15-231	42	2840	3400	3040	891	602	3093.333	3.083045	9.536886	RHYcw, no fractures, disseminated sulphide with low angle flow banding to core axis	FC
K15-231	42.9	2940	2990	3010	1262	838	2980	2.976415	8.869717	RHYcw, no fractures, disseminated sulphides with flow banding	FC
K15-231	54.6	4730	5380	4760	617	485	4956.667	4.674242	23.16866	OB; Massive sulphide with quartz blebby vein	HC
K15-231	60.3	6360	6440	6410	448	354	6403.333	4.765957	30.51801	Massive sulphide	HC
K15-231	63.3	5600	5680	5930	579	452	5736.667	4.559055	26.15378	Massive sulphide with foliation	HC
K15-231	64.2	5360	5600	5100	647	509	5353.333	4.688406	25.0986	Massive sulphide with magnetite vein	HC
K15-231	67.7	5320	5260	5420	556	422	5333.333	4.149254	22.12935	Massive sulphide, healed fracture with quartz-calcite	HC
K15-231	68.2	5070	5080	4780	602	469	4976.667	4.526316	22.52596	Massive sulphide, minor fractures, quartz banding	HC
K15-231	70.6	4840	4920	5140	418	313	4966.667	3.980952	19.77206	massive sulphide with quartz vein	HC
K15-231	71.5	5240	5580	5620	686	530	5480	4.397436	24.09795	Massive sulphide, foliation with quartz banding	HC
K15-231	79.4	3240	3310	3420	284	179	3323.333	2.704762	8.988825	RHYv, trace sulphide, healed fractures, no foliation	HC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K15-231	85	6550	6070	6640	523	413	6420	4.754545	30.52418	Massive sulphide	HC
K15-231	85.6	4070	4080	4310	668	525	4153.333	4.671329	19.40159	Massive sulphide	HC
K15-231	86.6	5950	6000	5930	650	515	5960	4.814815	28.6963	Massive sulphide with magnetite + chalcopyrite	HC
K15-231	89.8	4500	4630	4570	502	390	4566.667	4.482143	20.46845	massive sulphide with quartz vein	HC
K15-231	90.3	4180	4130	3920	524	409	4076.667	4.556522	18.57542	Massive sulphide	HC
K15-231	91.1	3170	3210	3200	364	232	3193.333	2.757576	8.805859	RHYv, no foliation	HC
K15-231	92.9	3730	3650	3700	537	419	3693.333	4.550847	16.8078	Massive sulphide with quartz veining	HC
K15-231	96	4260	3830	4130	574	444	4073.333	4.415385	17.98533	Massive sulphide, no foliation, with quartz vein	HC
K15-231	102	2430	2500	2430	766	487	2453.333	2.74552	6.735675	MAFi, with foliation trace sulphides	FC
K15-231	103.3	2040	2100	2150	768	503	2096.667	2.898113	6.076377	MAFi with foliation, healed fracture, trace sulphides, highly carbonaceous with quartz+ calcite banding	FC
K15-231	108.5	3250	3130	3640	802	531	3340	2.95941	9.884428	MAFi, strong foliation, heavy carbonate banding	FC
K15-231	109.1	3460	3610	3330	874	584	3466.667	3.013793	10.44782	MAFi, chlorite altered, strong foliation with disseminated sulphides	FC
K15-231	110.4	3360	3400	3500	740	493	3420	2.995951	10.24615	MAFi, strong foliation with chlorite alteration and carbonate vein, disseminated sulphides	FC
K15-231	111.2	3610	3400	3450	1430	942	3486.667	2.930328	10.21708	MAFi, strong foliation with chlorite alteration and carbonate vein, disseminated sulphides	FC
K15-231	112.3	4100	4050	4180	1108	734	4110	2.962567	12.17615	MAFi, moderate foliation, chlorite alteration, disseminated sulphides, carbonate veining	FC
K15-231	113.2	2570	2170	2560	901	598	2433.333	2.973597	7.235754	MAFi, moderate foliation, chlorite alteration, disseminated sulphides, healed fracture, minor carbonate veining	FC
K15-231	114.3	4600	4790	4600	980	648	4663.333	2.951807	13.76526	MAFi, moderate foliation, chlorite alteration, disseminated sulphides, carbonate veining	FC
K15-231	115.6	3890	3700	3710	914	609	3766.667	2.996721	11.28765	MAFi with foliation, chlorite alteration, disseminated sulphides, carbonate veining	FC
K15-231	116.5	4040	4350	4720	1129	753	4370	3.00266	13.12162	MAFi with foliation, chlorite alteration, disseminated sulphides, carbonate veining, healed fractures	FC
K15-231	117.6	4420	4370	3810	1056	705	4200	3.008547	12.6359	MAFi, no foliation, chlorite alteration, disseminated sulphides, carbonate veining	FC
K15-231	119.2	4260	4130	4320	981	635	4236.667	2.83526	12.01205	Heavily chlorite altered RHY with healed fracture + quartz-calcite banding	FC
K15-231	120	2060	2420	1980	867	550	2153.333	2.735016	5.889401	Heavily chlorite altered RHY with 5cm quartz-calcite vein + quartz-calcite banding, trace sulphides	FC
K15-231	121.1	3740	3950	4010	826	527	3900	2.762542	10.77391	chlorite altered RHY, disseminated sulphide veining + quartz-calcite	FC
K15-231	122.6	3070	3130	2880	706	443	3026.667	2.684411	8.124816	RHY, chlorite alteration with sphalerite banding + quartz-carbonate veining	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K15-231	124.5	4440	4200	4270	673	420	4303.333	2.660079	11.44721	Massive quartz vein within RHY	FC
K15-231	126	2960	3160	2930	1245	805	3016.667	2.829545	8.535795	MAFi with carbonate veining, minor sulphides, moderate foliation	FC
K15-231	127.1	4440	4390	4600	1077	748	4476.667	3.273556	14.65462	Massive sulphide vein (10cm) within MAFi, high chalcopyrite + pyrrhotite	FC
K15-231	129.6	4760	4640	4660	1298	830	4686.667	2.773504	12.99849	MAFi with foliations	FC
K15-231	131.1	4290	4030	4500	878	560	4273.333	2.761006	11.7987	MAFi with foliations and chlorite alteration, minor disseminated sulphides, no healed fractures	FC
K15-231	132	1760	1890	1880	1019	656	1843.333	2.807163	5.174536	RHYvl, fractured with quartz	FC
K15-231	133.1	2040	2430	2320	1175	753	2263.333	2.78436	6.301935	RHYv with disseminated sulphide and quartz banding, moderate foliation	FC
K15-231	133.9	2310	2360	2140	1157	735	2270	2.741706	6.223673	RHYv with disseminated sulphide and quartz banding, with foliation, fractured	FC
K15-231	135	2860	2600	2590	1357	864	2683.333	2.752535	7.38597	RHYv with disseminated sulphide and quartz banding, moderate foliation	FC
K15-231	136	2850	2790	2590	1244	790	2743.333	2.740088	7.516975	RHYv with disseminated sulphide and quartz banding, moderate foliation	FC
K15-231	137.1	2050	2020	2250	712	452	2106.667	2.738462	5.769026	RHYv with disseminated sulphide and quartz banding, moderate foliation	FC
K15-231	138.5	2910	2760	3030	835	530	2900	2.737705	7.939344	RHYv with disseminated sulphide and quartz banding, moderate foliation	FC
K15-231	139.5	3500	3250	3170	1358	625	3306.667	1.85266	6.12613	RHYv with disseminated sulphide, highly siliceous	FC
K15-231	140.7	2420	2190	2000	702	445	2203.333	2.731518	6.018444	RHYv with disseminated sulphide, fractured, highly siliceous	FC
K15-231	141.6	2600	2430	2410	1048	664	2480	2.729167	6.768333	RHYv with minor sulphide with foliation, trace carbonate	FC
K15-231	144	4980	4790	4620	978	615	4796.667	2.694215	12.92325	Massive quartz vein (20cm) with ankerite + trace sulphide	FC
K15-231	145.1	3230	3380	3450	997	657	3353.333	2.932353	9.833157	RHYv with disseminated sulphide + high silica content, no foliation	FC
K15-231	146.1	3480	3460	3790	783	515	3576.667	2.921642	10.44974	RHY with disseminated sulphide, with foliation, minor fracturing	FC
K15-231	147	2870	2580	2690	762	490	2713.333	2.801471	7.601324	RHYvl with disseminated sulphide, with foliation	FC
K15-231	148	3780	3570	3620	820	526	3656.667	2.789116	10.19887	RHYvl with disseminated sulphide, with foliation + curdy quartz	FC
K15-231	149.1	3790	3680	3360	1246	809	3610	2.851259	10.29304	RHYvl with disseminated sulphide, no foliation	FC
K15-231	150.2	3690	3630	3400	839	541	3573.333	2.815436	10.06049	RHYvl with disseminated sulphide, with foliation	FC
K15-231	151	4160	4040	3970	726	465	4056.667	2.781609	11.28406	RHYvl with disseminated sulphide, with foliation	FC
K15-231	152.1	3470	3930	3810	932	603	3736.667	2.832827	10.58533	RHYvl with disseminated sulphide, highly siliceous, with foliation	FC
K15-231	153.1	2880	2790	2870	927	593	2846.667	2.775449	7.900778	RHYvl, trace sulphide, curdy quartz	FC
K15-231	154.1	4140	4040	4050	1087	700	4076.667	2.808786	11.45048	RHYvl with disseminated sulphide + biotite, moderate foliation	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K15-231	155.4	2520	2570	2500	862	548	2530	2.745223	6.945414	RHYvl, fractured, trace sulphide, with foliation	FC
K15-231	156.3	2350	2430	2170	713	453	2316.667	2.742308	6.353013	RHYvl, minor sulphide, with foliation	FC
K15-231	157.2	3300	3270	3230	1386	901	3266.667	2.857732	9.335258	RHYvl with disseminated sulphide, moderate foliation	FC
K15-231	158.2	2710	2760	2750	1444	919	2740	2.750476	7.536305	RHYvl with minor sulphide, highly siliceous, curdy quartz	FC
K15-231	159.1	3830	3830	3790	816	527	3816.667	2.823529	10.77647	RHY with foliation, trace sulphide, highly siliceous	FC
K15-231	160.4	3370	3280	3410	1047	670	3353.333	2.777188	9.312838	RHYv with disseminated sulphide	FC
K15-231	163	2220	2310	2190	1197	760	2240	2.73913	6.135652	RHYvl no foliation, curdy quartz, minor sulphide	FC
K15-231	164.1	3610	3630	3660	1013	650	3633.333	2.790634	10.1393	RHYv, highly siliceous with foliation, disseminated sulphide	FC
K15-231	165	3140	3310	3210	1191	769	3220	2.822275	9.087725	RHYv, highly siliceous, chlorite altered with biotite, moderate foliation	FC
K15-231	166	3170	3260	3230	1053	685	3220	2.861413	9.21375	RHYv with calcite + biotite + disseminated sulphide (carbon content)	FC
K15-231	167.5	3470	3540	3410	726	469	3473.333	2.824903	9.811829	RHY, highly siliceous with calcite, high carbon content + biotite, moderate foliation	FC
K15-231	168	3620	3670	3710	1063	681	3666.667	2.782723	10.20332	RHY with disseminated sulphide, moderate foliation + biotite + quartz	FC
K15-231	169	3280	3330	3250	1214	783	3286.667	2.816705	9.257572	RHY with disseminated sulphide, moderate foliation + biotite + quartz (high carbon content)	FC
K15-231	170.2	4340	4250	4320	962	614	4303.333	2.764368	11.896	RHY with disseminated sulphide, moderate foliation + biotite + quartz, fractured	FC
K15-231	171	2810	2710	2790	830	531	2770	2.77592	7.689298	RHY with disseminated sulphide, with foliation, chlorite altered + fractured	FC
K15-231	172	3490	3660	3630	1092	698	3593.333	2.771574	9.959188	RHY with disseminated sulphide, with foliation, chlorite altered	FC
K15-231	174	3410	3460	3500	1306	833	3456.667	2.761099	9.5442	RHY with disseminated sulphide, with foliation, chlorite altered + biotite + quartz	FC
K15-231	175.1	2850	3500	2860	1153	738	3070	2.778313	8.529422	RHY with disseminated sulphide, with foliation, multiple healed fractures + curdy quartz	FC
K15-231	Calibration	2700					2700			End of hole calibration	
K15-319	Calibration	2710					2710			afternoon cal 1652 2407	
K15-319	152.4	4190	3870	4180	2346	1510	4080	2.80622	11.44938	high fracture ductile deformations	FC
K15-319	146.5	2150	2960	2190	1693	1052	2433.333	2.641186	6.426885	quartz vein	FC
K15-319	146.1	3370	3960	2950	1024	662	3426.667	2.828729	9.693112	fractured chlorite biotite	FC
K15-319	145.5	5470	5320	5120	1593	1043	5303.333	2.896364	15.36038	massive mafic with euhedral pyrite	FC
K15-319	144.2	5000	4550	4660	1835	1200	4736.667	2.889764	13.68785	steep weak foliation	FC
K15-319	143.5	4630	4010	3320	1608	1053	3986.667	2.897297	11.55056	Trevor's strong vg, euhedral pyrite	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K15-319	142.5	4870	4780	5000	2294	1503	4883.333	2.900126	14.16228	steep weak foliation	FC
K15-319	141.2	4520	3750	4450	1801	1181	4240	2.904839	12.31652	steep weak foliation with quartz carbonate increase in plagioclase	FC
K15-319	140.2	4870	5210	4700	1373	899	4926.667	2.896624	14.2707	weak foliation with quartz tourmaline bleb	FC
K15-319	139	4600	4500	5260	2070	1353	4786.667	2.887029	13.81925	increase in calcite euhedral crystals	FC
K15-319	138.3	4730	4690	4490	1179	775	4636.667	2.918317	13.53126	calcite rich mafic	FC
K15-319	137.1	4950	5150	4950	1867	1231	5016.667	2.935535	14.7266	weak foliation reduction in calcite	FC
K15-319	136.2	2350	4520	3030	2336	1541	3300	2.938365	9.696604	chlorite alteration	FC
K15-319	135	5580	5470	5580	1677	1107	5543.333	2.942105	16.30907	steep foliation calcite matrix	FC
K15-319	134.3	5140	5340	5170	2505	1639	5216.667	2.89261	15.08978	steep weak foliation	FC
K15-319	133	5420	5320	5380	2358	1548	5373.333	2.911111	15.64237	increased calcite steep foliation	FC
K15-319	132.4	5100	5240	4560	2055	1340	4966.667	2.874126	14.27483	steep foliation sulphide calcite matrix	FC
K15-319	131.3	5190	5420	5280	2744	1801	5296.667	2.909862	15.41257	mafic steep foliation	FC
K15-319	130.2	5380	4950	5300	1963	1281	5210	2.878299	14.99594	calcite vein chlorite alteration	FC
K15-319	129.1	4640	4570	5050	1466	954	4753.333	2.863281	13.61013	biotite increase foliation cross cutting veins	FC
K15-319	127.9	5450	5620	4770	1759	1168	5280	2.976311	15.71492	high chloritic alteration biotite anchorite increase	FC
K15-319	126.9	5770	5150	5020	1710	1140	5313.333	3	15.94	mafic steep foliation	FC
K15-319	136	5240	5560	5360	2021	1326	5386.667	2.907914	15.66396	mafic steep foliation biotite carbonate minor sulphide	FC
K15-319	125.2	3430	3590	3610	1946	1272	3543.333	2.88724	10.23045	mafic fracture biotite calcite matrix trace sulphide	FC
K15-319	124.5	5230	4480	4320	1279	822	4676.667	2.798687	13.08853	increase foliation intensity parallel core axis sulphide increase mafic	FC
K15-319	119.5	1230	1260	1440	1483	937	1310	2.716117	3.558114	calcite massive highly fractured	FC
K15-319	118.3	1740	1910	2180	1396	891	1943.333	2.764356	5.372066	RHY strong foliation	FC
K15-319	117.3	4080	3940	3700	1372	874	3906.667	2.75502	10.76295	muscovite overprint steep strong foliation	FC
K15-319	Calibration	2720					2720			afternoon cal 1800 2407	
K15-319	Calibration	2720					2720			morning cal 0800 2507	
K15-319	115.2	3500	3180	3390	570	362	3356.667	2.740385	9.198558	banded quartz carbonate	HC
K15-319	113.6	2720	2730	2710	545	346	2720	2.738693	7.449246	banded quartz carbonate trace sulphides	HC
K15-319	111.7	4760	4210	3960	937	719	4310	4.298165	18.52509	massive sulphide. Fractured	HC
K15-319	106	4530	4550	4260	637	415	4446.667	2.869369	12.75913	strong foliation mafic chlorite alt biotite carbonate veins	HC
K15-319	103.7	4340	4290	4970	767	506	4533.333	2.938697	13.32209	strong foliation mafic with chlorite, biotite, & sulphides	HC
K15-319	102.9	4420	4850	4890	762	502	3084.8	2.930769	9.040837	strong foliation mafic chlorite	HC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K15-319	102.1	4590	4730	5150	542	353	4823.333	2.867725	13.83199	strong foliation mafic with chlorite, biotite, & sulphides	HC
K15-319	101.1	5140	5150	4810	775	509	5033.333	2.913534	14.66479	strong foliation calcite chlorite matrix with biotite & sulphides	HC
K15-319	100.1	3080	4970	4050	2341	1527	4033.333	2.875921	11.59955	strong foliation	FC
K15-319	99	5580	5490	5620	1866	1227	5563.333	2.920188	16.24598	strong foliation disseminated sulphides	FC
K15-319	97.4	6200	6360	5910	1941	1285	6156.667	2.958841	18.2166	strong foliation minor sulphidestrong (!?)	FC
K15-319	97	3070	2800	3180	1630	1010	3016.667	2.629032	7.930914	strong foliation biotite bandstrong calcite matrix calcite blebs	FC
K15-319	96.5	5980	5860	5840	1233	806	5893.333	2.887588	17.01752	strong foliation but very competent	FC
K15-319	95.1	4500	4950	4840	2177	1409	4763.333	2.834635	13.50231	strong foliation calcite chlorite matrix biotite	FC
K15-319	94.1	5810	5880	5860	1940	1262	5850	2.861357	16.73894	strong foliation calcite chlorite matrix biotite	FC
K15-319	92.7	5430	5580	5100	1561	1027	5370	2.923221	15.6977	chlorite calcite biotite matrix with weak foliation	FC
K15-319	91.7	5490	5320	5210	1761	1141	5340	2.840323	15.16732	weak foliation calcite matrix	FC
K15-319	91	5680	5560	5790	1956	1301	5676.667	2.98626	16.952	weak foliation calcite matrix	FC
K15-319	90	5150	5340	5640	1644	1074	5376.667	2.884211	15.50744	calcite matrix weak foliation biotite veins	FC
K15-319	88.9	5980	5770	5730	2411	1593	5826.667	2.947433	17.17371	calcite matrix weak foliation biotite veins	FC
K15-319	88.1	5380	5750	5660	1606	1063	5596.667	2.957643	16.55294	calcite matrix moderate foliation steep foliation	FC
K15-319	87.6	5230	4930	4870	1954	1292	5010	2.951662	14.78782	calcite matrix n foliation steep foliation steep fracture	FC
K15-319	86.7	5980	5790	6020	2424	1615	5930	2.996292	17.76801	weak foliation calcite matrix	FC
K15-319	85	4360	3890	4310	2133	1355	4186.667	2.741645	11.47835	calcite matrix calcite vein	FC
K15-319	84.1	6540	6700	6700	2457	1611	6646.667	2.904255	19.30362	weak foliation chlorite carbonate matrix	FC
K15-319	83.1	6490	6520	6520	2284	1508	6510	2.943299	19.16088	very competent calcite chlorite matrix	FC
K15-319	79	6490	6070	6380	2848	1896	6313.333	2.991597	18.88695	very competent calcite chlorite matrix	FC
K15-319	79.9	5810	5840	6020	1647	1088	5890	2.946333	17.3539	moderate foliation matrix dominated	FC
K15-319	81.1	5810	5910	5840	1807	1202	5853.333	2.986777	17.4826	moderate foliation matrix dominated	FC
K15-319	82	6280	6300	6170	2432	1603	6250	2.933655	18.33534	moderate foliation matrix dominated	FC
K15-319	78.7	5930	6200	5860	1479	978	5996.667	2.952096	17.70273	moderate foliation matrix dominated	FC
K15-319	77.9	6280	6150	6760	2363	1560	6396.667	2.942715	18.82357	moderate foliation matrix dominated	FC
K15-319	76.9	6410	6440	6280	2607	1727	6376.667	2.9625	18.89088	moderate foliation matrix dominated	FC
K15-319	76	6020	6330	6100	2187	1438	6150	2.919893	17.95734	moderate foliation matrix dominated	FC
K15-319	75.1	5660	5750	5860	2941	1922	5756.667	2.886163	16.61468	moderate foliation matrix dominated	FC
K15-319	74.2	5380	5150	5140	2575	1695	5223.333	2.926136	15.28419	moderate foliation matrix dominated decreased biotite	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K15-319	72.5	5880	6050	5860	1709	1124	5930	2.921368	17.32371	moderate foliation matrix dominated decreased biotite	FC
K15-319	71.7	6050	6220	6280	1885	1230	6183.333	2.877863	17.79478	moderate foliation matrix dominated	FC
K15-319	71.3	5790	5730	5810	1541	994	5776.667	2.817185	16.27394	moderate foliation matrix dominated	FC
K15-319	69.6	4310	3970	4500	1479	939	4260	2.738889	11.66767	weak foliation decreased biotite sulphide	FC
K15-319	70.3	4730	4840	5210	1325	846	4926.667	2.76618	13.62804	healed fractures matrix dominated quartz vein	FC
K15-319	66.1	3610	3160	3270	1623	1027	3346.667	2.723154	9.11349	strong foliation brittle	FC
K15-319	60.1	4870	4780	4900	1138	856	4850	4.035461	19.57199	massive sulphide	HC
K15-319	52.2	3140	3980	2940	1300	824	3353.333	2.731092	9.158263	RHY strong foliation	FC
K15-319	48.3	2910	3680	2560	1089	692	3050	2.743073	8.366373	RHY moderate foliation	FC
K15-319	47.5	3000	3030	3050	1254	797	3026.667	2.743982	8.30512	quartz carbonate matrix minor sulphide	FC
K15-319	43.5	4160	3860	3440	1351	857	3820	2.734818	10.447	strong steep foliation quartz dominated	FC
K15-319	39	3020	2900	3040	1153	733	2986.667	2.745238	8.199111	strong steep foliation quartz dominated	FC
K15-319	161.3	4730	4390	4190	465	310	4436.667	3	13.31	strong foliation sulphide curds	HC
K15-319	160.1	3070	2980	3620	1343	876	3223.333	2.875803	9.269672	mafic strong biotite content	FC
K15-319	165	3090	3370	3640	490	304	3366.667	2.634409	8.869176	massive quartz minor sulphides	HC
K15-319	168.6	3600	3250	3180	845	623	3343.333	3.806306	12.72575	fractured massive sulphide	HC
K15-319	170.6	4450	4790	4590	835	644	4610	4.371728	20.15366	fractured massive sulphide	HC
K15-319	171.3	5620	6050	5750	1086	841	5806.667	4.432653	25.73894	massive sulphide	HC
K15-319	173.1	5190	5420	5430	1051	813	5346.667	4.415966	23.6107	massive sulphide	HC
K15-319	173.7	5230	5140	5320	944	728	5230	4.37037	22.85704	massive sulphide	HC
K15-319	174.8	5360	6020	5490	1126	868	5623.333	4.364341	24.54214	massive sulphide	HC
K15-319	175.8	5690	5840	5340	973	741	5623.333	4.193966	23.58407	massive sulphide	HC
K15-319	176.5	5840	6580	6000	1123	869	6140	4.42126	27.14654	massive sulphide	HC
K15-319	177.4	5840	5860	5840	1587	1222	5846.667	4.347945	25.42099	massive sulphide	HC
K15-319	178.6	5420	5510	5890	978	747	5606.667	4.233766	23.73732	massive sulphide	HC
K15-319	179.2	5490	6020	5930	1198	919	5813.333	4.293907	24.96191	massive sulphide	HC
K15-319	180.4	5580	6020	5840	798	578	5813.333	3.627273	21.08655	massive sulphide quartz vein	HC
K15-319	181.3	5320	5930	5300	991	736	5516.667	3.886275	21.43928	massive sulphide quartz curds	HC
K15-319	182.3	5070	4980	5790	791	584	5280	3.821256	20.17623	massive sulphide quartz calcite vein	HC
K15-319	183.9	5600	5320	6000	904	692	5640	4.264151	24.04981	massive sulphide quartz calcite vein	HC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K15-319	201.5	5770	6640	5700	1279	978	6036.667	4.249169	25.65082	massive sulphide fractured	HC
K15-319	228.2	1190	1380	1360	1399	894	1310	2.770297	3.629089	RHY heavily fractured and altered	FC
K15-319	231	3880	4100	3530	1967	1253	3836.667	2.754902	10.56964	RHY foliation parallel to core axis trace sulphides quartz veins	FC
K15-319	236.7	3020	3700	3590	2055	1312	3436.667	2.765814	9.505182	RHY weak foliation trace sulphide ash layers	FC
K15-319	238.4	2530	2860	2880	1168	749	2756.667	2.787589	7.684455	RHY moderate foliation disseminated sulphides quartz veins	FC
K15-319	239.4	4350	4370	4090	1747	1112	4270	2.751181	11.74754	RHY strong foliation disseminated sulphides	FC
K15-319	241	3320	3040	2950	1037	655	3103.333	2.71466	8.424494	RHY strong foliation fractured	FC
K15-319	242.2	2350	2780	2160	1610	1017	2430	2.715008	6.59747	RHY moderate foliation	FC
K15-319	242.8	3350	3170	3380	1145	719	3300	2.687793	8.869718	RHY moderate foliation quartz veins	FC
K15-319	245.8	2910	3080	3390	1555	987	3126.667	2.737676	8.5598	RHY quartz veins fractured	FC
K15-319	247.8	3380	3050	3580	1275	802	3336.667	2.69556	8.994186	RHY weak foliation fractured	FC
K15-319	249.2	4180	4260	4120	1890	1198	4186.667	2.731214	11.43468	RHY moderate foliation fractured	FC
K15-319	250.4	2440	1950	1720	1733	1100	2036.667	2.737757	5.575898	RHY weak foliation calcite vein fractured	FC
K15-319	250.7	3100	2840	2830	1730	1102	2923.333	2.754777	8.053132	RHY weak foliation fractured	FC
	Calibration	2740					2740			morning calibration 8:44 am	
K16-372	350.2	2460	2390	2390	1414	911	2413.333	2.811133	6.784201	RHY weak foliation pyrite	FC
K16-372	351.3	3010	4950	2890	1283	813	3616.667	2.729787	9.87273	silica bands moderate foliation	FC
K16-372	352	3130	3150	3010	2054	1295	3096.667	2.706192	8.380176	silica bands increase strong foliation	FC
K16-372	353	3470	3960	3460	1800	1129	3630	2.682563	9.737705	moderate foliation silica veins w/ quartz calcite	FC
K16-372	353.9	3420	3270	3450	2264	1424	3380	2.695238	9.109905	weak foliation quartz calcite and carbonate veins	FC
K16-372	355	3740	3610	3680	1676	1037	3676.667	2.622848	9.643339	quartz muscovite thick banding	FC
K16-372	355.9	3870	3720	3580	2156	1332	3723.333	2.616505	9.74212	quartz banding and veins no foliation ash tuff	FC
K16-372	357.3	4040	4020	4130	1983	1247	4063.333	2.694293	10.94781	ash tuff minor fractures trace sulphides	FC
K16-372	358	3230	3620	3750	1476	915	3533.333	2.631016	9.296257	quartz/carbonate vein pink hue flow structures	FC
K16-372	359	3500	3520	3640	1988	1246	3553.333	2.679245	9.520252	quartz/carbonate vein pink hue flow structures	FC
K16-372	360.1	3750	3790	3740	1506	942	3760	2.670213	10.04	quartz vein silica flow structures minor fractures minor disseminated Sulphides	FC
K16-372	361.5	3730	3620	3640	2114	1350	3663.333	2.767016	10.1365	silica flow banding disseminated Sulphides	FC
K16-372	362	3700	3730	3800	1732	1075	3743.333	2.636225	9.86827	silica flow banding, quartz veins, healed fractures	FC
K16-372	363.1	2750	3140	3170	2059	1286	3020	2.663648	8.044217	silica/muscovite banding, weakly foliated, healed fractures, calcite vein	FC
K16-372	364	4090	3880	3910	1711	1062	3960	2.636364	10.44	massive silica, sulphide blebs, healed fractures	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K16-372	365	3500	3820	3700	1312	816	3673.333	2.645161	9.716559	massive silica with flow structures, trace sulphides, Mica bands, no foliation, fractured	FC
K16-372	366.1	3630	3610	3640	1803	1126	3626.667	2.66322	9.658612	flow structure, highly siliceous, quartz/carbonate vein, weak foliation	FC
K16-372	367	3420	3450	3500	2448	1535	3456.667	2.681271	9.268258	Highly siliceous, disseminated sulphide bands, quartz/carbonate veins cross-cutting sulphide bands	FC
K16-372	368	2060	2220	2700	1236	778	2326.667	2.69869	6.278952	weak foliation, quartz/carbonate bands in RHY, trace sulphides, fractured	FC
K16-372	368.7	3960	3840	4020	1712	1082	3940	2.71746	10.70679	weak foliation, quartz/carbonate veins & quartz bands in RHY, fractured	FC
K16-372	370	2590	2440	2660	1410	889	2563.333	2.706334	6.937236	weakly foliated RHY irregular quartz veins & calcite veins	FC
K16-372	371	4480	4200	4690	2291	1491	4456.667	2.86375	12.76278	Dark unit high abundance healed fractures, high BI, Calcite crystals, trace sulphide, weak foliation	FC
K16-372	373	4570	4240	4490	1433	915	4433.333	2.766409	12.26441	High ductile deformation, quartz veins with minor calcite dark unit	FC
K16-372	373.8	2400	2250	2340	1367	878	2330	2.795501	6.513517	fractured quartz vein, sillicic bands	FC
K16-372	373.3	3930	4020	3820	1252	812	3923.333	2.845455	11.16367	Chlorite biotite minor sulphides no foliation	FC
K16-372	375.4	3830	3530	3950	1182	760	3770	2.800948	10.55957	weak foliation disseminated sulphides, moderate silica	FC
K16-372	376	4390	4340	4360	2404	1527	4363.333	2.741163	11.96061	Large irregular quartz vein in chlorite tourmaline	FC
K16-372	377	4490	4520	4210	2189	1393	4406.667	2.75	12.11833	weak foliation high chlorite, minor BI, quartz bands	FC
K16-372	378.1	2820	2840	2600	1694	1074	2753.333	2.732258	7.522817	Irregular quartz veins with carbonate healed fractures	FC
K16-372	379.1	3860	3280	3550	1942	1236	3563.333	2.750708	9.80169	disseminated sulphide bands/chlorite/quartz bands	FC
K16-372	379.7	4300	3880	3280	2165	1404	3820	2.844941	10.86767	strong foliation quartz/carbonate bands biotite bands calcite crystals 1cm, healed fractures	FC
K16-372	380.9	3840	4690	3200	1618	1026	3910	2.733108	10.68645	quartz vein diss. Sulphide calcite, weak foliation	FC
K16-372	382.5	2860	3300	3450	2050	1302	3203.333	2.740642	8.779189	quartz banding with tourmaline bands healed fractures with carbonate, oxidation	FC
K16-372	382.9	3220	2790	2580	2312	1480	2863.333	2.778846	7.956763	Irregular quartz tourmaline layers, tourmaline filled fracture running the core axis with perpendicular splays	FC
K16-372	383.4	2950	3450	3090	2406	1531	3163.333	2.749714	8.698263	half of the core tourmaline, other half silica on the long axis	FC
K16-372	384.1	2020	1890	1800	1320	844	1903.333	2.773109	5.278151	weakly foliated healed fractures trace sulphides BI	FC
K16-372	384.7	3960	3540	3550	1513	981	3683.333	2.843985	10.47534	FAT tourmaline vein, irregular quartz/calcite, diss. Sulphides	FC
K16-372	385	4480	4270	3990	1557	987	4246.667	2.731579	11.60011	tourmaline healed fractures lapilli tuff	FC
K16-372	386.2	3580	3090	3840	1298	824	3503.333	2.738397	9.593516	weak foliation silica lapilli biotite bands healed fractures minor pyrrhotite	FC
K16-372	387.3	2390	2880	2530	1659	1051	2600	2.728618	7.094408	weak foliation silica lapilli biotite bands healed fractures minor pyrrhotite	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
	Calibration	2730					2730			noon cal	
	Calibration	2740					2740			after lunch cal 1:05 pm	
K16-372	388.4	3250	3470	3230	1638	1038	3316.667	2.73	9.0545	weak foliation quartz/chlorite bands lapilli	FC
K16-372	389.4	2090	1360	2630	1526	982	2026.667	2.805147	5.685098	deformed quartz/calcite vein chlorite groundmass disseminated. Pyrrhotite. Mafic	FC
K16-372	390.9	3270	3360	3370	1218	772	3333.333	2.730942	9.103139	weak foliation lapilli quartz/mu foliations	FC
K16-372	393.3	3300	3280	2810	1584	1003	3130	2.726334	8.533425	weak foliation muscovite/quartz foliations higher MU abundance than 390.9	FC
K16-372	394	4370	4530	4730	1338	864	4543.333	2.822785	12.82485	weak foliation quartz/carbonate veins diss. Pyrrhotite, chlorite, biotite in GM	FC
K16-372	395	4270	4530	4570	1483	948	4456.667	2.771963	12.35371	lapilli rhyolite tourmaline-filled fracture along core axis quartz veins	FC
K16-372	397.4	3550	4550	4750	1672	1085	4283.333	2.848382	12.20057	weak foliation quartz/carbonate veins diss. Pyrrhotite, chlorite, biotite in GM	FC
K16-372	398	3720	3910	3730	2623	1665	3786.667	2.737996	10.36788	weak foliation ductile deformation quartz biotite veins	FC
K16-372	398.9	2980	3230	2960	1930	1227	3056.667	2.745377	8.391702	weak foliation ductile deformation quartz biotite veins	FC
K16-372	400.2	2950	3210	3230	1279	821	3130	2.792576	8.740764	weak foliation chlorite biotite minor quartz trace sulphides	FC
K16-372	400.9	3560	3530	3890	2471	1576	3660	2.760894	10.10487	weak foliation chlorite biotite quartz/Carbonate veins trace sulphides healed fractures	FC
K16-372	401.2	2960	2260	2710	1573	1000	2643.333	2.745201	7.256481	weak foliation quartz carbonate vein healed fracture chlorite in GM	FC
K16-372	402.2	3690	3390	3130	1222	775	3403.333	2.733781	9.303967	weak foliation quartz carbonate vein healed fracture chlorite in GM	FC
K16-372	403.2	3070	3840	3640	1691	1093	3516.667	2.827759	9.944287	Mafic unit chlorite/calcite groundmass quartz vein	FC
K16-372	404.1	3080	2660	2750	1352	861	2830	2.753564	7.792587	weak foliation RHY lapilli chlorite in groundmass oxidized lapilli	FC
K16-372	405.1	2790	2600	2530	1481	939	2640	2.732472	7.213727	weak foliation RHY lapilli chlorite in Groundmass oxidized lapilli	FC
K16-372	406	2940	2810	2910	1429	906	2886.667	2.732314	7.887279	weak foliation trace sulphides, quartz/MU foliations	FC
K16-372	407.1	2720	2760	2650	1840	1170	2710	2.746269	7.442388	weak foliation trace sulphides, quartz/MU foliations quartz lapilli	FC
K16-372	409	2690	2550	2660	1480	939	2633.333	2.735675	7.203943	moderate foliation minor sulphides quartz/carbonate veins dark matrix	FC
K16-372	410	4440	4490	4410	2314	1478	4446.667	2.767943	12.30812	weak foliation quartz lapilli quartz veins RHY GM	FC
K16-372	411.6	3280	3300	3010	1307	822	3196.667	2.694845	8.614522	Irregular quartz/calcite vein throughout sample	FC
K16-372	412.6	2020	1790	1740	1404	904	1850	2.808	5.1948	RHY lapilli unit contact with chlorite alteration zone with quartz/calcite vein in between	FC
K16-372	413	3260	3520	2900	1552	984	3226.667	2.732394	8.816526	RHY lapilli irregular quartz/calcite vein weak foliation	FC
K16-372	413.7	2950	3050	3230	2215	1403	3076.667	2.727833	8.392631	RHY lapilli quartz/muscovite + chlorite	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K16-372	414.9	2310	2220	2110	1368	866	2213.333	2.7251	6.031554	RHY lapilli quartz/muscovite + chlorite weak foliation	FC
K16-372	417.1	2790	2670	2650	1949	1235	2703.333	2.729692	7.379267	no foliation RHY quartz lapilli sulphide veinlets & disseminated	FC
K16-372	418	2900	2730	2510	1669	1076	2713.333	2.814503	7.636684	laminated mudstone diss. Sulphides, quartz/carbonate veins	FC
K16-372	419	1830	1700	1630	1275	812	1720	2.75378	4.736501	laminated mudstone	FC
K16-372	419.8	1190	1240	1210	1215	769	1213.333	2.724215	3.305381	deformed laminated mudstone quartz/calcite veins fractured	FC
K16-372	429.2	1880	2200	1990	1604	1013	2023.333	2.714044	5.491416	deformed laminated mudstone quartz beds	FC
K16-372	437.3	3180	3640	3620	1351	865	3480	2.779835	9.673827	moderate foliation large quartz/calcite veins in chlorite/mu GM	FC
K16-372	450.5	4980	4820	4950	2498	1557	4916.667	2.654623	13.0519	quartz vein with patchy calcite and stringy tourmaline	FC
K16-372	452.5	3280	4250	3900	1991	1262	3810	2.731139	10.40564	laminated mudstone strong deformation	FC
K16-372	453.6	3650	3680	3790	2012	1289	3706.667	2.782849	10.31509	laminated mudstone fractured, coarsening down depth	FC
K16-372	454.3	4640	4780	4820	1271	819	4746.667	2.811947	13.34737	weak foliation laminated mudstone 3mmoderatequartz lapilli	FC
K16-372	454.8	3700	3670	3970	1902	1198	3780	2.701705	10.21244	massive mudstone quartz veins	FC
K16-372	458.3	2420	2430	2310	1448	905	2386.667	2.666667	6.364444	laminated mudstone absence of dark minerals in GM	FC
K16-372	459	3250	3180	3420	1703	1075	3283.333	2.711783	8.903689	laminated mudstone minor quartz/calcite veins	FC
K16-372	460	2440	2640	2060	1600	1006	2380	2.693603	6.410774	deformed laminated mudstone heavily fractured	FC
K16-372	460.7	2520	2420	2320	1425	903	2420	2.729885	6.606322	laminated mudstone quartz vein, likely Chlorite in GM, trace sulphides	FC
K16-372	461.2	2610	2800	2800	2156	1351	2736.667	2.678261	7.329507	laminated mudstone minor quartz veins, carbonaceous layers	FC
K16-372	462.2	2470	2100	2580	1496	940	2383.333	2.690647	6.41271	laminated mudstone higher silica than 461.2	FC
K16-372	462.7	2680	2730	2830	1785	1134	2746.667	2.741935	7.531183	deformed laminated mudstone high silica	FC
K16-372	464	3830	3690	3230	1518	982	3583.333	2.83209	10.14832	rhyolite lapilli contact with brittly-deformed ankerite & disseminated sulphides	FC
K16-372	464.8	3440	3610	3610	1912	1229	3553.333	2.799414	9.947252	laminated mudstone	FC
K16-372	466	4320	4420	4950	1292	897	4563.333	3.270886	14.92614	laminated mudstone disseminated pyrrhotite & lenses	FC
K16-372	466.9	5470	5450	5510	1977	1283	5476.667	2.848703	15.6014	laminated mudstone pyrrhotite lenses	FC
K16-372	467.5	2060	2000	1990	1483	956	2016.667	2.814042	5.674984	deformed laminated mudstone	FC
K16-372	468.1	2370	2430	1362	1365	862	2054	2.713718	5.573976	high silica RHY banded lapilli quartz + carbonate veins	FC
K16-372	469.3	3330	3450	3570	1512	953	3450	2.70483	9.331664	high silica RHY banded lapilli	FC
K16-372	470.9	4670	4720	4760	2888	1829	4716.667	2.727101	12.86283	RHY banded lapilli chlorite in GM, biotite, disseminated sulphides	FC
K16-372	471.6	3460	3330	3320	1371	868	3370	2.725646	9.185427	RHY lapilli, chlorite in GM, biotite, disseminated sulphides, weak foliation	FC
K16-372	472.4	3890	3860	3840	1933	1223	3863.333	2.722535	10.51806	RHY lapilli, chlorite in GM, biotite, sulphides, weak foliation	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K16-372	473	4200	4190	4390	2129	1347	4260	2.722506	11.59788	RHY lapilli, chlorite in GM, biotite, sulphides, weak foliation	FC
K16-372	473.6	2910	2750	2820	2014	1295	2826.667	2.801113	7.917812	RHY lapilli, chlorite in GM, biotite, diss. sulphides, weak foliation, tourmaline-filled fracture down core axis	FC
K16-372	474.2	3630	3460	3530	2815	1791	3540	2.749023	9.731543	RHY lapilli, chlorite in groundmass biotite weak foliation	FC
K16-372	475.6	3910	3790	3820	2687	1710	3840	2.750256	10.56098	RHY lapilli, chlorite in Groundmass biotite weak foliation	FC
K16-372	477.1	3580	4110	3930	1600	1018	3873.333	2.749141	10.64834	RHY lapilli, chlorite in Groundmass biotite weak foliation	FC
K16-372	478.5	4290	4230	4400	2604	1687	4306.667	2.839695	12.22962	Mafic chlorite biotite moderate foliation calcite crystals	FC
K16-372	479	3520	3690	3640	1665	1060	3616.667	2.752066	9.953306	RHY lapilli, chlorite in GM, healed fracture weak foliation	FC
K16-372	480.2	3550	4090	3920	1648	1048	3853.333	2.746667	10.58382	RHY lapilli, chlorite in GM, moderate foliation	FC
K16-372	481.5	4090	3980	4320	1928	1236	4130	2.786127	11.50671	RHY lapilli, chlorite in GM, moderate foliation healed fracture	FC
K16-372	482.5	4730	4760	4600	2033	1332	4696.667	2.900143	13.621	mafic chlorite biotite moderate foliation, carbonate, minor sulphides	FC
K16-372	483.8	3160	3170	3250	1392	879	3193.333	2.71345	8.664951	RHY lapilli, high silica weak foliation	FC
K16-372	484.4	3930	3910	4200	1320	850	4013.333	2.808511	11.27149	Chlorite calcite quartz biotite vein in pelite	FC
K16-372	485.3	3520	3840	3970	1587	1011	3776.667	2.755208	10.4055	RHY lapilli no foliation high silica	FC
K16-372	486.4	3280	3300	2860	2403	1525	3146.667	2.736902	8.612118	RHY lapilli no foliation high silica	FC
K16-372	490	4360	4440	4560	2334	1476	4453.333	2.72028	12.11431	RHY lapilli calcite chlorite in groundmass weak foliation	FC
K16-372	490.8	4800	5340	4140	1169	757	3241.2	2.837379	9.196512	pelite weak foliation deformed quartz veins	FC
K16-372	492.1	4480	4880	4900	2799	1784	4753.333	2.757635	13.10796	pelite RHY lapilli contact, disseminated sulphides	FC
K16-372	492.9	4550	4370	4570	1292	827	4496.667	2.778495	12.49396	pelite weak foliation abundant chlorite+ BI	FC
	Calibration	2720					2720			end of day 6:03 pm	
	Calibration	2750					2750			start of day 7:47 am	
K16-372	494	5140	5100	5080	1694	1104	5106.667	2.871186	14.66219	mafic weak foliation biotite and quartz semi banding	FC
K16-372	495.2	5070	5170	4980	2415	1536	5073.333	2.74744	13.93868	weak foliation disseminated sulphide light grey lapilli	FC
K16-372	496	4440	5030	5120	2378	1511	4863.333	2.742791	13.33911	weak foliation trace sulphide lapilli biotite fractured	FC
K16-372	496.5	4570	4590	4840	2185	1425	4666.667	2.875	13.41667	weak foliation healed fractures Pelite trace calcite	FC
K16-372	496.9	4080	3810	3920	1804	1173	3936.667	2.858954	11.25475	weak foliation RHYvx quartz clasts	FC
K16-372	498.1	4730	4600	4760	1707	1079	4696.667	2.718153	12.76626	RHY very weak foliation small lapilli healed fracture	FC
K16-372	499	3750	2910	3280	1794	1136	3313.333	2.726444	9.033617	weak foliation quartz lapilli healed fracture high silica	FC
K16-372	499.6	4120	4400	4350	1426	899	4290	2.705882	11.60824	weak foliation quartz carbonate vein	FC
K16-372	502.4	3990	3860	3890	1286	810	3913.333	2.701681	10.57258	RHY lapilli quartz vein healed fractures weak foliation	FC
K16-372	503.6	4180	4120	4230	1659	860	4176.667	2.076345	8.672203	deformed quartz vein RHY lapilli	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K16-372	504.5	4040	3640	3540	1148	729	3740	2.739857	10.24706	ash dominated lapilli abundant healed fractures weak foliation	FC
K16-372	505.8	4370	4410	4180	1311	827	4320	2.708678	11.70149	ash dominated lapilli abundant healed fractures weak foliation	FC
K16-372	506.5	3780	3790	3820	1466	916	3796.667	2.665455	10.11984	non foliated ash lapilli high silica + Mu	FC
K16-372	508.5	3100	3050	3340	1278	803	2692	2.690526	7.242897	non foliated ash lapilli high silica + Mu	FC
K16-372	510.3	2270	2300	3030	1960	1219	2533.333	2.645074	6.700855	laminated mudstone quartz veins healed fractures	FC
K16-372	516	4900	5210	5080	2241	1421	5063.333	2.732927	13.83772	dark grey, 1mmoderatequartz crystals in tuff 10% biotite no foliation healed fractures	FC
K16-372	517	4930	4870	4690	1705	1074	4830	2.70206	13.05095	dark grey, quartz crystals in tuff minor biotite no foliation healed fractures	FC
K16-372	518	5260	5380	5050	2610	1655	5230	2.732984	14.29351	dark grey, quartz crystals in tuff minor biotite no foliation healed fractures	FC
K16-372	519.7	4750	4920	4870	1834	1155	4846.667	2.701031	13.091	dark grey, 1mmoderatequartz crystals in tuff no foliation healed fractures	FC
K16-372	520.7	4900	4980	4950	2339	1474	3728.6	2.704046	10.08231	dark grey, 1mmoderatequartz crystals in tuff no foliation healed fractures diss. Sulphides	FC
K16-372	521.1	4370	4600	4420	1638	1036	4463.333	2.72093	12.14442	dark grey, 1mmoderatequartz crystals in tuff no foliation healed fractures diss. Sulphides	FC
K16-372	522.1	4760	4660	4920	1219	769	4780	2.708889	12.94849	dark grey, 1mmoderatequartz crystals in tuff no foliation healed fractures	FC
K16-372	523	4810	4870	4950	2159	1359	4876.667	2.69875	13.1609	massive felsic minor biotite crystals no foliation	FC
K16-372	524	4840	4530	4480	2731	1721	4616.667	2.70396	12.48328	volcaniclastic felsic healed fractures	FC
K16-372	525	4720	4560	4760	1316	841	4680	2.770526	12.96606	medium-grey no foliated volcaniclastic 1mmoderatequartz/biotite crystals quartz vein	FC
K16-372	526	3980	4440	4550	1380	874	4323.333	2.727273	11.79091	Felsic dyke healed fractures non foliated	FC
K16-372	527	4730	4560	4890	1827	1165	4726.667	2.759819	13.04474	medium-grey non foliated RHY 20% biotite1mmoderatecrystals healed fractures	FC
K16-372	528	4550	4490	4690	2588	1631	4576.667	2.704284	12.37661	medium-grey non foliated RHY 20% biotite1mmoderatecrystals healed fractures, contact with felsic dyke	FC
K16-372	529	4930	4890	4980	2193	1400	4933.333	2.765448	13.64288	RHY 10% BI, quartz lapilli non foliated	FC
K16-372	530.3	4780	4530	4720	1437	919	4676.667	2.774131	12.97369	RHY 10% BI, quartz lapilli non foliated	FC
K16-372	531.3	4870	5050	4950	1878	1194	4956.667	2.745614	13.60909	RHY 25% biotite quartz lapilli very weak foliation	FC
K16-372	533.2	4590	3970	4420	1497	948	4326.667	2.726776	11.79785	RHY quartz lapilli 15% biotite weak foliation minor/disseminated sulphides	FC
K16-372	533.8	3120	2940	3060	1462	938	3040	2.790076	8.481832	RHY quartz lapilli 15% biotite weak foliation	FC
K16-372	535.4	3680	3660	4000	1976	1252	3780	2.729282	10.31669	RHY abundant quartz lapilli 5% biotite quartz veins weak foliation	FC
K16-372	535.8	4080	5100	4340	2322	1522	4506.667	2.9025	13.0806	pelite calcite veins 5% biotite1mmoderatecrystals chlorite in matrix	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K16-372	536.7	4300	4690	4390	2257	1450	3417.4	2.796778	9.55771	contact between pelite and massive felsic dyke (rye)	FC
K16-372	537.7	4780	4970	4850	1261	835	4866.667	2.960094	14.40579	weak foliation dark pelite calcite phyric & calcite vein	FC
K16-372	538.1	4900	4820	4760	2340	1462	4826.667	2.665148	12.86378	Felsic dyke healed fractures non foliated	FC
K16-372	539	3150	2610	3220	2044	1288	2993.333	2.703704	8.093086	RHY quartz lapilli 10% biotite weak foliation	FC
K16-372	539.9	4600	4570	4690	2476	1578	4620	2.757238	12.73844	abundant quartz lapilli 20%, weak foliation, dark-coloured - pelite?	FC
K16-372	541	4640	4480	3900	2247	1435	4340	2.767241	12.00983	RHY quartz lapilli 5% biotite moderate foliation	FC
K16-372	542	4340	4530	4460	2260	1435	4443.333	2.739394	12.17204	RHY lapilli larger quartz lapilli & biotite crystals, weak foliation	FC
K16-372	543.1	4410	4400	4160	1879	1197	4323.333	2.755132	11.91135	RHY abundant lapilli 10% biotite large crystals weak foliation	FC
K16-372	544	4460	4240	4440	2237	1472	4380	2.924183	12.80792	moderate foliation high biotite pelite, healed fractures, calcite in matrix & veins	FC
K16-372	545	3690	2990	4250	1883	1191	3643.333	2.721098	9.913868	RHY lapilli 5% biotite weak foliation quartz/carbonate bands	FC
K16-372	545.6	4270	4590	4320	1593	1008	4393.333	2.723077	11.96338	RHY lapilli 10% biotite no foliation	FC
K16-372	547	4190	4020	4360	2757	1820	4190	2.942369	12.32853	pelite, calcite/tourmaline veins, 40% BI, minor sulphides weak foliation, healed fractures	FC
K16-372	548	4520	4090	4070	1404	929	4226.667	2.955789	12.49314	pelite, calcite/tourmaline veins, 40% BI, minor sulphides weak foliation, healed fractures	FC
K16-372	548.8	4000	4210	4090	1292	818	4100	2.725738	11.17553	RHY lapilli high silica coarse biotite 20%	FC
K16-372	550	3880	4440	4050	1703	1083	4123.333	2.746774	11.32587	dark grey ash tuff weak foliation	FC
K16-372	551	4040	4000	3960	1465	939	4000	2.785171	11.14068	moderate foliation dark grey pelite calcite veins	FC
K16-372	552	3950	3960	3860	1844	1171	3923.333	2.73997	10.74982	RHY, 4mmoderatequartz lapilli, weak foliation	FC
K16-372	553	2750	2850	2660	2259	1429	2753.333	2.721687	7.493711	felsic dyke contact with pelite, healed fracture	FC
K16-372	555	4520	4640	4550	1607	1020	4570	2.737649	12.51106	felsic dyke contact with pelite, healed fracture	FC
K16-372	556	4750	4760	4730	1749	1115	4746.667	2.758675	13.09451	pelite weak foliation structureless	FC
K16-372	557.1	4460	4620	4550	1567	991	4543.333	2.720486	12.36008	contact felsic dyke and lapilli rhyolite	FC
K16-372	557.9	4360	4410	4460	2203	1390	4410	2.709717	11.94985	rhyolite quartz lapilli 4mmoderate trace sulphide no foliation	FC
K16-372	559.1	3820	3950	3230	2208	1389	3666.667	2.695971	9.885226	RHY lapilli high silica coarse biotite 15% weak foliation high fracture abundance	FC
K16-372	560	3690	3510	3910	2452	1549	3703.333	2.715393	10.05601	RHY lapilli high silica coarse biotite 15% weak foliation high fracture abundance	FC
K16-372	560.8	4000	3510	3440	2825	1790	3650	2.729469	9.96256	RHY lapilli high silica fractured weakfoliation10% BI	FC
K16-372	562.3	4410	4670	4210	1587	1005	4430	2.726804	12.07974	RHY lapilli, carbonate healed fractures down core axis, weak foliation	FC
K16-372	563	4590	4590	4870	2524	1596	4683.333	2.719828	12.73786	RHY lapilli with interlayer of felsic plagioclase-phyric dyke	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K16-372	564	4790	4790	4820	2429	1613	4800	2.976716	14.28824	biotite rich pelite weak foliation	FC
K16-372	566	4730	4970	4790	1907	1213	4830	2.747839	13.27206	contact between BI-rich pelite and massive felsic dyke	FC
K16-372	565	4980	5000	5050	1598	1046	5010	2.894928	14.50359	biotite rich pelite weak foliation quartz vein	FC
K16-372	567	4160	4240	4200	1325	859	4200	2.843348	11.94206	biotite rich pelite healed fractures weak foliation quartz/calcite bands	FC
K16-372	568	3880	4000	3960	1468	952	3946.667	2.844961	11.22811	biotite rich pelite healed fractures weakfoliation1cmoderatethick quartz/calcite vein	FC
K16-372	569	3960	3780	3610	1383	895	3783.333	2.834016	10.72203	pelite quartz/calcite/chlorite vein weak foliation lower biotite content than last few meters	FC
K16-372	569.7	3100	3000	3010	2950	1883	3036.667	2.764761	8.395658	brown pelite healed fracture along core axis moderate foliation, oxidized layer causing brown colour	FC
K16-372	571	3900	3810	3450	1687	1081	3720	2.783828	10.35584	brown pelite healed fracture along core axis moderate foliation, oxidized layer causing brown colour	FC
K16-372	571.8	3810	4140	4200	1569	1024	4050	2.878899	11.65954	biotite rich pelite weak foliation quartz/calcite vein >70% BI	FC
K16-372	573.6	2650	3970	3510	1404	925	3376.667	2.931106	9.89737	biotite rich pelite weak foliation quartz/calcite vein >70% BI	FC
K16-372	576	4070	4180	3740	1559	1029	3996.667	2.941509	11.75623	biotite rich pelite weak foliation quartz/calcite vein >50% BI	FC
K16-372	577	5150	5120	4980	1422	885	5083.333	2.648045	13.46089	felsic vein, massive	FC
K16-372	580.6	4400	4670	4420	2748	1850	4496.667	3.060134	13.7604	RHY, large lapilli 5mmoderateno foliation	FC
K16-372	581	4200	4270	4100	1572	1027	4190	2.884404	12.08565	biotite rich pelite moderate foliation quartz/calcite/tourmaline/sulphide vein	FC
K16-372	582.2	4360	4360	4040	2371	1551	4253.333	2.891463	12.29836	biotite rich pelite intercalated with laminated mudstone moderate foliation disseminated. Sulphides	FC
K16-372	583	3790	3850	3900	2531	1588	3846.667	2.683987	10.3244	rhyolite lapilli, >50% lapilli fragments weak foliation	FC
K16-372	584	4010	4420	4170	2764	1740	4200	2.699219	11.33672	rhyolite lapilli, 30% lapilli fragments no foliation	FC
K16-372	585	4410	4550	4240	2089	1309	4400	2.678205	11.7841	rhyolite lapilli large clasts up to 1cmoderate30% of sample, <5% biotite	FC
K16-372	586	4250	4490	4250	2147	1347	4330	2.68375	11.62064	rhyolite lapilli large clasts 30% of sample, <5% biotite	FC
K16-372	586.9	4290	4520	4620	2341	1469	4476.667	2.684633	12.01821	rhyolite lapilli large clasts 30% of sample, no foliation	FC
K16-372	589	4570	4730	4560	1740	1095	4620	2.697674	12.46326	rhyolite lapilli large clasts 30% of sample, no foliation	FC
K16-372	590	4400	4600	4500	2217	1395	4500	2.69708	12.13686	rhyolite lapilli large clasts 30% of sample, no foliation	FC
K16-372	592	4340	4300	4370	1885	1185	4336.667	2.692857	11.67802	RHY lapilli muscovite-rich interval 8cmoderateand lapilli-rich interval 8cm	FC
K16-372	592.9	3870	3110	4260	1699	1065	3746.667	2.679811	10.04036	RHY lapilli with muscovite layers, contact with felsic dyke containing a tourmaline vein	FC
K16-372	593.8	4640	4410	4600	2261	1426	3467.4	2.707784	9.388972	RHY lapilli with muscovite layers, 25% lapilli	FC
K16-372	596	4320	4410	4270	1849	1163	4333.333	2.695335	11.67979	RHY lapilli with muscovite layers, 25% lapilli	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
	Calibration	2700					2700			end of hole, 16:20	
	Calibration	2700					2700			Start of hole, 16:26	
K16-403	169.8	3730	3640	3160	972	615	3510	2.722689	9.556639	RHY lapilli, fracture along core axis	FC
K16-403	172	2470	2280	2390	822	525	2380	2.767677	6.587071	Volcaniclastic Rhyolite, Quartz vein with Tourmaline trace sulphides	FC
K16-403	173.2	2340	2540	2460	836	530	2446.667	2.732026	6.684357	Weak foliation, volcaniclastic rhyolite	FC
K16-403	176.9	2970	2300	3110	730	460	2793.333	2.703704	7.552346	Weak foliation, trace sulphides, healed fractured along core axis	FC
K16-403	178.1	3140	2850	3160	1005	641	3050	2.760989	8.421016	Moderate foliation, disseminated sulphides, Biotite	FC
K16-403	181.2	4750	4920	4950	1105	700	4873.333	2.728395	13.29638	Weak foliation, sulphides veinlets, trace chlorite	FC
K16-403	182.5	4400	4550	4200	930	592	4383.333	2.751479	12.06065	Weak foliation, sulphides veinlets, trace chlorite	FC
K16-403	183.1	3970	4590	4420	812	527	4326.667	2.849123	12.3272	Rhyolite, ductile deformation, Chlorite + Biotite + disseminated sulphides	FC
K16-403	183.9	4230	4460	4240	966	627	4310	2.849558	12.28159	Muscovite alteration, weak foliation, disseminated sulphides, Quartz/Chlorite/Calcite bands	FC
K16-403	184.9	4250	4730	4460	973	625	4480	2.795977	12.52598	RHY ash tuff, trace sulphides, weak foliation	FC
K16-403	185.4	2610	3240	2750	686	441	2866.667	2.8	8.026667	RHY lapilli, disseminated sulphides, weak foliation	FC
K16-403	165.1	3520	3750	3370	652	409	3546.667	2.683128	9.516159	RHY lapilli, no foliation	FC
K16-403	166	4400	3600	3580	1163	731	3860	2.69213	10.39162	RHY lapilli, no foliation, disseminated sulphides	FC
K16-403	167.1	3690	4810	4810	1106	697	4436.667	2.704156	11.99744	RHY lapilli, weak foliation, Tourmaline, disseminated sulphides	FC
K16-403	168	4070	3350	3390	1313	825	3603.333	2.690574	9.695034	RHY lapilli, disseminated sulphides, no foliation, healed fracture	FC
K16-403	163.3	3860	4270	3660	982	616	3930	2.68306	10.54443	RHY lapilli, no foliation	FC
K16-403	162.2	5100	4920	4790	751	478	4936.667	2.750916	13.58035	RHY lapilli, no foliation, blebby Silica	FC
K16-403	161.1	3830	3950	4170	1195	781	3983.333	2.886473	11.49779	Dark green and black, Calcite matrix, weak foliation	FC
K16-403	160	5140	5340	5470	1349	844	5316.667	2.671287	14.20234	RHY lapilli, purple altered silica w/ disseminated sulphides, no foliation	FC
K16-403	158.9	4730	4490	4750	1387	871	4656.667	2.687984	12.51705	RHY lapilli, disseminated sulphides, no foliation, Calcite vein	FC
K16-403	157.9	5340	5300	5260	1369	859	5300	2.684314	14.22686	RHY lapilli, purple altered silica w/ disseminated sulphides, no foliation	FC
K16-403	157.2	2950	3050	3170	898	567	3056.667	2.712991	8.292709	RHY lapilli, disseminated sulphides, weak foliation, healed fracture	FC
K16-403	155.7	4210	3500	3620	1074	672	3776.667	2.671642	10.0899	Healed fracture, lapilli, disseminated sulphides	FC
K16-403	151.5	4930	4210	5120	692	436	4753.333	2.703125	12.84885	Quartz vein w/ Calcite + tourmaline	FC
K16-403	150.6	2460	2350	2100	719	450	2303.333	2.672862	6.156493	Healed fractures, blebby Silica	FC
	Calibration	2710					2710			End of day 18:00	

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
	Calibration	2750					2750			Start of day 07:58	
K16-403	148.7	4700	4130	4130	955	605	4320	2.728571	11.78743	Disseminated Pyrite, weak foliation, lapilli, healed fractures	FC
K16-403	147.9	2790	2650	2420	1156	728	2620	2.700935	7.076449	Highly fractured, weak foliation, lapilli	FC
K16-403	146.7	3440	3160	3040	816	514	3213.333	2.701987	8.682384	Highly fractured, healed fractures, lapilli	FC
K16-403	145.1	2240	2290	2090	696	433	2206.667	2.646388	5.839696	Highly fractured, healed fractures, lapilli	FC
K16-403	144	4640	4730	4370	671	442	4580	2.930131	13.42	Biotite rich Pelite w/ Chlorite alteration, weak foliation	HC
K16-403	143.3	4490	4480	4390	730	480	4453.333	2.92	13.00373	Biotite rich Pelite w/ Chlorite alteration, weak foliation	FC
K16-403	141.4	5120	5230	4920	939	613	5090	2.880368	14.66107	Vein w/ Tourmaline+Quartz+Calcite and Chlorite+Sericite alteration, no foliation	FC
K16-403	140.4	4970	5340	5300	1035	656	5203.333	2.730871	14.20963	RHY lapilli, Quartz vein, no foliation, Muscovite	FC
K16-403	138.4	4810	4700	4570	857	572	4693.333	3.007018	14.11294	Pelite, minor Calcite bands	FC
K16-403	138	4930	3870	3880	907	603	4226.667	2.983553	12.61048	Pelite, heavy Chlorite alteration, Calcite veins, Biotite	FC
K16-403	137	4640	4630	4600	1064	706	4623.333	2.972067	13.74086	Pelite, heavy Chlorite alteration, Calcite veins, Biotite, weak foliation	FC
K16-403	136.3	4450	3430	4420	767	506	4100	2.938697	12.04866	Pelite, heavy Chlorite alteration, Calcite veins, Biotite, weak foliation	FC
K16-403	135.6	3980	2500	2980	909	595	3153.333	2.894904	9.128599	Increase in Calcite veins & Biotite, Muscovite present	FC
K16-403	132.4	3440	3210	3520	791	495	3390	2.672297	9.059088	RHY lapilli, high Silica, moderate foliation	FC
K16-403	129	4900	5020	4720	896	562	4880	2.682635	13.09126	RHY lapilli, high Silica, minor sulphides, no foliation, fractured	FC
K16-403	128.3	3930	3680	3860	842	556	3823.333	2.944056	11.25611	Quartz/Calcite vein within Biotite rich Pelite, minor sulphides	FC
K16-403	124.4	2950	2620	2600	1118	700	2723.333	2.674641	7.283939	20% lapilli, weak foliation, high Silica	FC
K16-403	123.3	3500	3650	3460	980	614	3536.667	2.677596	9.469763	Large lapilli (1.5cm), 40% of sample	FC
K16-403	122.1	2930	2900	3390	912	573	3073.333	2.690265	8.268083	Large lapilli (1.5cm), 40% of sample	FC
K16-403	121	3920	3500	3690	1001	629	3703.333	2.69086	9.965152	Weak foliation, lapilli w/ Quartz bands, minor Muscovite	FC
K16-403	119.8	3930	3730	3890	1143	719	3850	2.695755	10.37866	Weak foliation, lapilli w/ Quartz bands, minor Muscovite, fractured	FC
K16-403	119.2	3480	3260	3380	1303	813	3373.333	2.659184	8.970313	Coherent RHY, weak foliation, high Silica	FC
K16-403	118.3	4400	3940	4630	757	475	4323.333	2.684397	11.60554	Lapilli (1cm), 40% of sample	FC
K16-403	116.2	2300	2350	2430	729	465	2360	2.761364	6.516818	Pelite w/ Biotite, Calcite veins, weak foliation	FC
K16-403	112.7	4550	3940	4640	672	424	4376.667	2.709677	11.85935	High abundance of healed fractures, RHY w/ high Silica	FC
K16-403	110.8	2440	2820	2800	899	576	2686.667	2.783282	7.47775	Healed fractures, weak foliation, Biotite rich Pelite	FC
K16-403	105.6	3930	3600	3100	849	555	3543.333	2.887755	10.23228	Chlorite+Calcite rich, Quartz vein 10cm long	FC
K16-403	103.7	2870	2700	2840	660	404	2803.333	2.578125	7.227344	RHY, high Silica, highly fractured	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K16-403	98	1190	2060	1600	963	584	1616.667	2.540897	4.107784	Massive RHY, highly fractured	FC
K16-403	93	1930	2650	2430	743	456	2336.667	2.58885	6.04928	Quartz vein w/ globby Quartz/Sericite lense, fractured	FC
K16-403	84.8	4720	4760	5070	654	408	4850	2.658537	12.8939	Siltstone, no foliation, healed fracture	FC
K16-403	83.7	3320	2870	2960	709	449	3050	2.726923	8.317115	Siltstone w/ Biotite Quartz layers, healed fractures, weak foliation	FC
K16-403	82.1	4700	4630	4550	957	605	4626.667	2.71875	12.57875	High Silica, Quartz vein, Biotite	FC
K16-403	81.4	4560	4590	4570	968	610	4573.333	2.703911	12.36588	High Silica, Quartz vein, Biotite	FC
K16-403	77.6	3190	2570	3080	573	360	2946.667	2.690141	7.926948	Strong foliation, high Biotite within Silica	FC
K16-403	76.5	3650	3330	3170	706	446	3383.333	2.715385	9.187051	Siltstone, highly fractured, weak foliation	FC
K16-403	74.9	3620	3400	3580	891	555	3533.333	2.651786	9.369643	Highly fractured, Muscovite+Calcite bands, globby Silica	FC
K16-403	70.7	3270	3330	3540	1020	634	3380	2.642487	8.931606	High Silica, highly fractured, Quartz veins	FC
K16-403	69.7	3750	4560	4660	899	561	4323.333	2.659763	11.49904	RHY, fractured, Quartz vein, no foliation	FC
K16-403	67.9	3960	3040	3380	968	603	3460	2.652055	9.17611	Deformed RHY, Quartz vein, high abundance of healed fractures	FC
K16-403	66.8	3870	4670	4780	796	493	4440	2.627063	11.66416	RHYi, fine-grained Silica, highly fractured (healed), Quartz vein	FC
K16-403	66	3560	3630	3560	1015	632	3583.333	2.650131	9.496301	RHYi, highly fractured, minor maroon Biotite	FC
K16-403	63.8	4790	4750	4690	632	391	4743.333	2.622407	12.43895	RHY, globs of Muscovite, healed fracture	FC
K16-403	63	4850	4890	4640	1266	784	4793.333	2.626556	12.58996	RHY, Quartz vein	FC
K16-403	61.7	5240	5260	5170	917	573	5223.333	2.665698	13.92383	RHY, Quartz veins, healed fracture along core axis	FC
K16-403	58.6	4090	4210	3330	1048	655	3876.667	2.666667	10.33778	RHYi, minor sulphides, no foliation, Biotite	FC
K16-403	57.3	5190	5030	5340	1470	918	5186.667	2.663043	13.81232	RHY, globby Quartz w/ Biotite, healed fractures	FC
K16-403	55.8	4270	4390	4400	825	512	4353.333	2.635783	11.47444	Fractured RHY, Biotite Quartz Tourmaline band	FC
K16-403	55	4250	3940	4660	625	390	4283.333	2.659574	11.39184	Muscovite bands, minor fractures, globby	FC
K16-403	54	4620	4590	4590	1234	775	4600	2.688453	12.36688	Deformed RHY, Quartz vein along core axis, minor fracture	FC
K16-403	51.7	3190	3800	3860	667	416	3616.667	2.657371	9.610823	RHY, orientated fractures (joint system)	FC
K16-403	50.7	3550	3460	3820	1498	932	3610	2.646643	9.554382	Greenish grey RHY w/ Quartz veins, highly fractured	FC
K16-403	48	2990	3540	3350	711	442	3293.333	2.643123	8.704684	RHY, highly fractured, weak foliation w/ Muscovite bands	FC
K16-403	44.3	4550	3390	3370	742	467	3770	2.698182	10.17215	Layered ash, Quartz veins, moderate foliation, Biotite rich layers	FC
K16-403	42.9	2160	1870	2070	641	398	2033.333	2.63786	5.363649	Heavily fractured, Pelite layered, Quartz vein (irregular)	FC
K16-403	42.1	2790	2940	2890	1195	742	2873.333	2.637969	7.579765	Pelite, irregular Quartz vein, Muscovite layering	FC
K16-403	40	2020	1980	1560	1169	739	1853.333	2.718605	5.038481	Pelite, moderate foliation, Quartz+carbonate bands, Biotite rich	FC
K16-403	38.9	3500	3970	3740	806	524	3736.667	2.858156	10.67998	Biotite rich Pelite, weak foliation	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K16-403	33	2950	3160	2960	686	432	3023.333	2.700787	8.165381	chert, moderate foliation, high Silica	FC
K16-403	28	4410	3550	4480	1056	650	4146.667	2.600985	10.78542	Massive felsic dyke between sedimentary units	FC
K16-403	22.7	2090	2170	2450	738	461	2236.667	2.66426	5.959061	Bedded Silica+Biotite w/ Quartz blebs, weak foliation	FC
K16-403	18.3	2330	2390	2280	712	440	2333.333	2.617647	6.107843	High Silica, minor Biotite, healed fractures, weak foliation	FC
K16-403	17.2	4730	4780	4750	1416	889	4753.333	2.686907	12.77176	Ash tuff, minor Biotite, healed fractures	FC
K16-403	16	4370	4170	4080	702	447	4206.667	2.752941	11.58071	Elongated Quartz blebs, weak foliation	FC
K16-403	13.6	2700	2590	2600	726	453	2630	2.659341	6.994066	Maroon Biotite, high Silica, weak foliation, healed fractures	FC
K16-403	10	5140	5050	4720	1358	851	4970	2.678501	13.31215	RHYva, brecciated, weak to no foliation, Biotite bands, blebby Quartz	FC
K16-403	9.3	4210	4410	4140	723	456	4253.333	2.707865	11.51745	RHYva Biotite rich, deformation w/ Quartz	FC
K16-403	8	4970	4930	4920	1117	698	4940	2.665871	13.1694	RHYva	FC
K16-403	6.9	3290	2940	3480	717	447	3236.667	2.655556	8.595148	Tourmaline+Quartz filled fractures in ash tuff	FC
K16-403	6.3	4850	4310	4840	764	458	4666.667	2.496732	11.65142	RHY, weak foliation, blebby Silica	FC
K16-403	Calibration	2700					2700			EOH Calibration 13:30	
K17-447	Calibration	2690					2690			Start 9:30 am	
K17-447	15.9	3240	2310	2300	1723	1116	2616.667	2.83855	7.42754	MAFt, chlorite-sericite-calcite-biotite-quartz, foliated, rare calcite crosscutting veinlets	FC
K17-447	19.8	2130	2420	2210	1889	1220	2253.333	2.823617	6.362551	MAFt, chlorite-calcite-sericite-biotite, calcite banded, biotite crosscutting veinlet, weakly foliated	FC
K17-447	24	3780	4050	3420	1333	862	3750	2.830149	10.61306	MAFt, chlorite-calcite-biotite, biotite porphyroblasts, calcite veinlets, weakly foliated	FC
K17-447	25	3870	4310	3670	2417	1588	3950	2.915561	11.51647	MAFt, chlorite-calcite-biotite porphyroblasts, patchy po, wispy calcite bands and patches, weakly foliated	FC
K17-447	25.8	3710	3680	3550	1290	835	3646.667	2.835165	10.3389	MAFt, chlorite-calcite-biotite-lesser quartz, wispy laminated biotite, biotite porphyroblasts, weakly foliated	FC
K17-447	27	3150	3510	3440	1475	954	3366.667	2.831094	9.53135	MAFt, strongly altered-bleached by quartz veinlet (3 cm wide halo), sericite-chlorite-quartz-biotite ghosts, quartz/quartz-calcite veinlets, texture obscured by alteration	FC
K17-447	30.7	2670	2560	2360	1692	1078	2530	2.7557	6.971922	MAFt, strongly altered-bleached by quartz veinlet (halo), sericite-chlorite-quartz-biotite ghosts, quartz/quartz-calcite veinlets, texture obscured by alteration	FC
K17-447	32.8	3060	3260	2610	1722	1106	2976.667	2.795455	8.321136	MAFt, strongly altered-bleached, sericite-chlorite-lesser quartz-biotite ghosts, quartz-calcite patches, calcite veinlets sets, texture obscured by alteration, moderately fractured	FC
K17-447	33.8	4200	4250	3960	2092	1360	4136.667	2.857923	11.82228	MAFt, chlorite-sericite-biotite-calcite, calcite patches and veinlets, biotite crosscutting veinlet, weakly foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	35	2180	1970	2190	1521	978	2113.333	2.801105	5.919669	MAFt, chlorite-sericite-wispy calcite-biotite-quartz, wispy disseminated po, well foliated	FC
K17-447	36	3700	4350	3810	1737	1133	3953.333	2.875828	11.36911	MAFt, chlorite-biotite-quartz, biotite porphyroblasts, poorly foliated	FC
K17-447	37	3490	3780	3390	1593	1029	3553.333	2.824468	10.03628	MAFt, strongly altered, silicified, quartz-chlorite-bleached biotite, rare wispy calcite, crosscutting biotite veinlets, weakly foliated	FC
K17-447	38.2	3170	3300	3040	1671	1083	3170	2.841837	9.008622	MAFt (?), silicified-bleached, chlorite-quartz-biotite, poorly foliated, fractured (20 degrees to core axis)	FC
K17-447	39.2	3640	3620	3630	1612	1040	3630	2.818182	10.23	MAFt (?), chlorite-quartz-biotite porphyroblasts, wispy calcite and calcite veinlets, poorly foliated	FC
K17-447	40	3400	3160	3230	1579	1021	3263.333	2.829749	9.234415	MAFt (?), chlorite-quartz-biotite porphyroblasts, calcite veinlets, poorly foliated	FC
K17-447	41	3480	3340	3330	2171	1411	3383.333	2.856579	9.664759	MAFt (?), chlorite-quartz-biotite porphyroblasts, calcite veinlets, poorly foliated	FC
K17-447	42	3770	3000	3670	3040	2020	3480	2.980392	10.37176	MAFt (?), chlorite-quartz-biotite porphyroblasts (30%), calcite veinlet sets, weakly foliated	FC
K17-447	43	3780	3650	3680	2384	1557	3703.333	2.882709	10.67563	MAFt (?), chlorite-quartz-biotite porphyroblasts, calcite veinlets and patches, rare disseminated po, weakly foliated	FC
K17-447	44.2	3540	3550	3610	1819	1185	3566.667	2.869085	10.23307	MAFt (?), chlorite-quartz-biotite porphyroblasts, care calcite veinlets, poorly foliated	FC
K17-447	45	3090	3300	3220	1675	1093	3203.333	2.878007	9.219215	MAFt (?), chlorite-quartz-biotite porphyroblasts, calcite veinlets, elongated disseminated po, poorly foliated	FC
K17-447	46.2	3570	3510	3470	2398	1549	3516.667	2.824499	9.932823	MAFt (?), chlorite-sericite-quartz-biotite, calcite-quartz veinlets, biotite veinlets, wispy po, heterogeneous composition and texture, foliated	FC
K17-447	47.2	2690	2650	2700	2011	1311	2680	2.872857	7.699257	MAFt (?), chlorite-quartz-biotite porphyroblasts (strongly biotitic), rare calcite, weakly foliated	FC
K17-447	48.1	2680	2920	2420	1879	1231	2673.333	2.899691	7.751842	MAFt (?), chlorite-quartz-biotite porphyroblasts (strong biotite alteration-overprint), abundant wispy po, poorly foliated	FC
K17-447	53.1	2430	2420	2420	1300	835	1881	2.795699	5.25871	MAFt, chlorite-sericite, rare biotite porphyroblasts, wispy po, rare wispy calcite, poorly foliated	FC
K17-447	54	2670	2740	2770	1438	924	2726.667	2.797665	7.628301	MAFt, chlorite-sericite-patchy calcite, rare biotite porphyroblasts, poorly foliated	FC
K17-447	55	3470	3270	3310	2111	1379	3350	2.88388	9.660997	MAFt (?), chlorite-sericite, rare biotite porphyroblasts patchy and banded, rare po, poorly foliated-irregular	FC
K17-447	Calibration	2720					2720			Stop 12:00	FC
K17-447	Calibration	2730					2730			Start 15:30	FC
K17-447	56.3	4530	4690	4760	3278	2254	4660	3.201172	14.91746	MAFt, chlorite-sericite-lesser quartz, biotite porphyroblasts, abundant wispy po, biotite veinlet, poorly foliated, thin healed fractures set 20 degrees to core axis	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	57	4070	3040	3730	1351	878	3613.333	2.856237	10.32054	MAFt or siltstone, sericite-quartz-chlorite (?), abundant wispy and disseminated po, biotite veinlet crosscutting foliation, foliated	FC
K17-447	58	4920	4500	4790	2295	1489	4736.667	2.847395	13.48716	MAFT, sericite-chlorite-calcite bands crosscutting biotite veinlet, rare biotite porphyroblasts, weakly foliated, rare fracture	FC
K17-447	58.6	4090	3930	4370	1729	1133	4130	2.901007	11.98116	MAFt, sericite-chlorite-lesser quartz-biotite porphyroblasts, abundant wispy po, biotite-po veinlets, calcite patches, weakly foliated	FC
K17-447	59.8	3740	3820	3880	1912	1243	3813.333	2.857997	10.8985	MAFt, sericite-chlorite-silica bands-biotite veinlets-calcite patches, wispy po, foliated	FC
K17-447	61.8	4210	4230	4480	1600	1036	4306.667	2.836879	12.21749	MAFt, sericite-chlorite-silica bands-biotite veinlets-calcite patches, wispy po, foliated	FC
K17-447	63.2	4210	4030	3960	1477	960	4066.667	2.856867	11.61792	MAFt, sericite-chlorite-silica bands-biotite veinlets-calcite patches, wispy po, foliated	FC
K17-447	64.1	3420	3460	3770	1650	1078	3550	2.884615	10.24038	MAFt, sericite-chlorite-silica bands-biotite veinlets-calcite patches, wispy po, foliated	FC
K17-447	65.1	3910	3810	4310	1604	1046	4010	2.874552	11.52695	MAFt, sericite-chlorite-silica bands-biotite veinlets-calcite patches and bands, rare wispy po, foliated	FC
K17-447	66	3850	3820	3860	2760	1802	3843.333	2.881002	11.07265	MAFt, chlorite-quartz-calcite patches and veinlets, biotite porphyroblasts, abundant wispy po, foliated	FC
K17-447	67	4430	3690	4190	1819	1166	4103.333	2.785605	11.43027	MAFt, sericite-chlorite-silica bands-biotite veinlets-calcite veinlet set crosscutting foliation, wispy po, foliated	FC
K17-447	68	4020	3840	3980	3083	2049	3946.667	2.981625	11.76748	MAFt, chlorite-quartz-calcite patches-abundant biotite porphyroblasts, weakly foliated	FC
K17-447	69	4090	4560	4500	2470	1614	4383.333	2.885514	12.64817	MAFt, chlorite-quartz-calcite patches-abundant biotite porphyroblasts, wispy po, poorly foliated	FC
K17-447	Calibration	2720					2720			Calibration 16:30 due to suspicious values	FC
K17-447	70	3940	3820	3960	2536	1680	3906.667	2.962617	11.57396	MAFt, chlorite-quartz-calcite patches-abundant biotite porphyroblasts, wispy po, poorly foliated, quartz veinlet showing strong alteration halo-sericitization, poorly foliated	FC
K17-447	71.1	4370	4240	4140	2920	1950	4250	3.010309	12.79381	MAFt, chlorite-quartz-calcite patches-abundant biotite porphyroblasts, poorly foliated	FC
K17-447	72	3370	3210	2950	1700	1101	3176.667	2.838063	9.015582	MAFt, chlorite-quartz-calcite patches bleaching biotite alteration-abundant biotite porphyroblasts, poorly foliated	FC
K17-447	73	4340	4450	4160	1851	1202	4316.667	2.85208	12.31148	MAFt, chlorite-quartz-calcite patches (weak bleaching)-abundant biotite porphyroblasts, poorly foliated, weakly fractured	FC
K17-447	75	3360	3250	3340	2884	1903	3316.667	2.939857	9.750527	MAFt, chlorite-quartz-calcite patches-abundant biotite porphyroblasts, quartz-calcite veinlet showing alteration halo and cm quartz veinlet offset, poorly foliated	FC
K17-447	76	4420	4590	4720	1388	868	4576.667	2.669231	12.21618	Massive quartz vein, fractured-calcite infill, irregular contact, chlorite patch, rare sulphides in fracture	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	77	4820	4520	4670	1986	1299	4670	2.89083	13.50017	MAFt, chlorite-quartz-calcite veinlet-abundant biotite porphyroblasts, rare wispy po, poorly foliated	FC
K17-447	78	3940	3870	4020	2162	1413	3943.333	2.886515	11.38249	MAFt, chlorite-quartz-calcite veinlet-abundant biotite porphyroblasts, rare wispy po, poorly foliated	FC
K17-447	79	3330	4350	4700	2269	1476	4126.667	2.861286	11.80757	MAFt, chlorite-quartz-rare biotite-wispy laminated calcite, foliated, two open fractures (25 degrees to core axis	FC
K17-447	80.1	3460	3560	3320	1763	1146	3446.667	2.857374	9.848417	MAFt, chlorite-quartz, abundant biotite porphyroblasts, wispy po, foliated to banded	FC
K17-447	81	3930	3620	4140	1456	936	3896.667	2.8	10.91067	MAFt, chlorite-calcite-sericite, rare biotite, well foliated	FC
K17-447	82.1	4250	4240	4630	1252	806	4373.333	2.807175	12.27671	MAFt, chlorite-sericite-quartz-calcite replacing lapilli, rare biotite porphyroblasts, foliated	FC
K17-447	83.1	5230	5080	4840	1422	915	5050	2.804734	14.16391	MAFt, chlorite-sericite-calcite, calcite veinlet and paces, weakly foliated	FC
K17-447	Calibration	2720					2720			Calibration 17:30 due to suspicious values	FC
K17-447	84	4840	4790	4980	1734	1115	4870	2.801292	13.64229	MAFt, chlorite-sericite-calcite, calcite veinlet and paces (lapilli?), foliated	FC
K17-447	85	4020	3970	3990	1729	1111	3993.333	2.797735	11.17229	MAFt, chlorite-sericite-calcite, calcite veinlet and paces (lapilli?), weakly foliated	FC
K17-447	85.9	3780	3390	3250	1936	1247	3473.333	2.809869	9.759613	MAFt, chlorite-sericite-wispy laminated calcite-silica rich bands, well foliated-banded	FC
K17-447	86.9	4370	4460	4660	1274	828	4496.667	2.856502	12.84474	MAFt, chlorite-sericite-quartz-lesser calcite, wispy po-py, weakly foliated, few thin healed fractures/veinlets	FC
K17-447	88	2900	2940	2720	1472	970	2853.333	2.932271	8.366746	MAFt, chlorite-sericite-lesser quartz, abundant po associated with cpy, foliaform quartz-calcite veinlet and patches, foliated	FC
K17-447	89.1	3590	3920	3860	1772	1144	3790	2.821656	10.69408	MAFt, chlorite-sericite-calcite-quartz-biotite porphyroblasts, thin crosscutting calcite veinlets, poorly foliated	FC
K17-447	90	3930	3940	3930	1774	1149	3933.333	2.8384	11.16437	MAFt, chlorite-sericite-wispy calcite-quartz, 10% biotite porphyroblasts, foliated	FC
K17-447	91.1	4460	4760	4640	1959	1266	4620	2.82684	13.06	MAFt, chlorite-quartz-calcite, thin calcite veinlet set, 2% biotite porphyroblasts, thin fracture-calcite infill	FC
K17-447	92.1	3880	3910	4020	1386	896	3936.667	2.828571	11.13514	MAFT, chlorite-sericite-calcite-lesser quartz, foliaform calcite veinlet, weakly foliated	FC
K17-447	93	3660	3980	3500	2134	1385	3713.333	2.849132	10.57978	MAFt containing possibly rhyolite xenolith, chlorite-sericite-calcite-py-po veinlets, felsic pod, deformed foliation, thin fractures	FC
K17-447	94	3590	3410	4000	1333	870	3666.667	2.87905	10.55652	MAFt, chlorite-sericite-quartz-calcite, wispy po, well foliated	FC
K17-447	94.9	4890	5120	5620	1592	1025	5210	2.80776	14.62843	Irregular quartz vein/pod chlorite schist hosted, quartz-calcite-abundant patchy po associated py cpy, weakly fractured	FC
K17-447	Calibration	2720					2720			Stop 18:00	FC
K17-447	Calibration	2740					2740			Start 9:30 am	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	96.2	2070	2030	1870	1462	956	1990	2.889328	5.749763	MAFt, chlorite-sericite-calcite clots, wispy po, well foliated, thin veinlet/fracture-calcite infill	FC
K17-447	96.9	3420	3770	3900	1458	959	3696.667	2.921844	10.80108	MAFt, chlorite-sericite-calcite veinlets and patches-fine grained disseminated biotite, wispy po, weakly foliated, thin fractures	FC
K17-447	98.2	4270	4140	3520	1847	1191	3976.667	2.815549	11.1965	MAFt, chlorite-quartz-wispy calcite, thin crosscutting calcite veinlets, well foliated	FC
K17-447	100.8	2780	2920	3110	1249	806	2936.667	2.819413	8.279676	MDSc, carbonaceous-siliceous, quartz blebs and clots associated with disseminated py,-rare po, locally vuggy, poorly foliated	FC
K17-447	104.3	1850	2070	1930	2197	1412	1950	2.798726	5.457516	MDSc, carbonaceous-siliceous, quartz-calcite bands, wispy po-py, foliated, micro fractured; note: low RQD from 97 m to 110 m.	FC
K17-447	106.9	3550	3720	3550	1570	1002	3606.667	2.764085	9.969131	MDSc, carbonaceous-siliceous, foliaform and crosscutting quartz veinlets, irregular foliation, healed fracture-quartz infill	FC
K17-447	109.8	2480	1880	2010	1287	814	2123.333	2.72093	5.777442	MDSc, carbonaceous-siliceous, poorly foliated, granular texture, healed fractures (moderate to strong intensity)-quartz infill	FC
K17-447	110.4	4180	4750	4370	1510	949	4433.333	2.691622	11.93286	MAFt, strongly quartz-calcite veined, fold nose, healed fracture-quartz-calcite infill	FC
K17-447	111.5	2360	2390	2120	1528	983	2290	2.80367	6.420404	MDSc, carbonaceous-siliceous, wispy py, wavy foliation, locally crenulation cleavage-secondary foliation poorly marked	FC
K17-447	112.3	4150	3630	3930	1251	801	3903.333	2.78	10.85127	MDSc, carbonaceous-calcite in matrix, strongly siliceous, wispy py, discontinuous quartz veinlets and blebs, wavy foliation, locally	FC
K17-447	118.7	2860	3740	3230	1600	1036	3276.667	2.836879	9.295508	MAFt, chlorite-sericite-lesser quartz, bleached (altered), quartz veinlet, well foliated, crosscutting fractures-quartz-calcite infill	FC
K17-447	122.6	1400	1270	1260	1419	911	1310	2.793307	3.659232	MDSc, carbonaceous, strongly siliceous-biotite, patchy py, foliated, strongly fractured-quartz-calcite infill	FC
K17-447	Standard	2740					2740			Calibration 10:30 am	FC
K17-447	124	3500	3750	3340	1604	1044	3530	2.864286	10.11093	MAFt, sericite-chlorite-quartz flooded-wavy deformed quartz veinlets, disseminated po, poorly foliated	FC
K17-447	125.3	2270	2280	2380	1283	820	2310	2.771058	6.401145	MDSc, carbonaceous-siliceous, wispy-patch py-po, well foliated, crosscutting fracture weakly open	FC
K17-447	127	2860	2920	2900	1758	1126	2893.333	2.781646	8.048228	MDSc, carbonaceous-quartz-calcite, wispy po, wispy to patchy calcite, well foliated, fracture-quartz infill	FC
K17-447	127.8	3260	3230	3350	1897	1220	3280	2.802068	9.190783	MDSc, carbonaceous-quartz-calcite, wispy po, wispy to patchy calcite, possibly crosscutting bedding relics locally, well foliated	FC
K17-447	129.6	2610	2580	2520	1809	1164	2570	2.804651	7.207953	MDSc, carbonaceous-strongly siliceous-rare calcite, wispy po, wispy to patchy calcite, well foliated, micro fractures	FC
K17-447	130.3	3470	3580	3540	1488	944	3530	2.735294	9.655588	MDSc, carbonaceous-strongly siliceous, wispy to blebby quartz-po, foliated	FC
K17-447	130.7	2260	2280	2290	1180	738	2276.667	2.669683	6.077979	MDSc-8 cm massive quartz vein-pod, strongly vuggy-mudstone inclusion, wispy py-po in siliceous carbonaceous mudstone-foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	132.1	3550	3560	3610	1212	778	3573.333	2.792627	9.978986	RHYvx, quartz-sericite-rare carbonaceous wispy lamination, abundant rounded blue quartz eyes, well foliated	FC
K17-447	133.3	3640	3550	3530	1586	1009	3573.333	2.7487	9.822022	RHYvx, quartz-sericite-feldspar crystal ankerite altered-rare carbonaceous wispy lamination, abundant rounded blue quartz eyes, well foliated, fracture 35 degrees to core axis	FC
K17-447	135	2880	2780	2760	1781	1126	2806.667	2.719084	7.631562	RHYvx, quartz-sericite-abundant feldspar crystals ankerite altered-rare carbonaceous wispy lamination, rounded blue quartz eyes, disseminated py, well foliated	FC
K17-447	136.5	2300	2270	2360	1623	1022	2310	2.700499	6.238153	RHYvx, quartz-sericite-abundant feldspar crystals ankerite altered, rounded blue quartz eyes, well foliated	FC
K17-447	139.5	2840	3090	2980	1995	1265	2970	2.732877	8.116644	RHYvx, quartz-sericite-abundant feldspar crystals ankerite altered, abundant rounded blue quartz eyes, disseminated py, foliated	FC
K17-447	140.7	2040	1990	2350	1496	942	2126.667	2.700361	5.742768	RHYvx, quartz-sericite-feldspar crystals ankerite altered, abundant rounded blue quartz eyes, disseminated py, weakly foliated, fractured	FC
K17-447	144	2090	1830	2020	1330	842	1980	2.72541	5.396311	RHYvx, weakly muscovite altered, quartz-sericite-rare feldspar, abundant rounded blue quartz eyes, quartz-calcite foliaform veinlet, bleached crosscutting veinlet reactivated as fracture, foliated	FC
K17-447	145.8	2530	2470	2560	2124	1353	2520	2.754864	6.942257	RHYvx, weakly muscovite altered, quartz-sericite-feldspar crystals ankerite altered, rounded blue quartz eyes, weakly foliated, fractured	FC
K17-447	146.8	2650	2000	2660	1533	977	2436.667	2.757194	6.718363	RHYvx, weakly muscovite altered. quartz-sericite-rare feldspar, rounded blue quartz eyes, quartz-calcite foliaform veinlet set, foliated	FC
K17-447	148	1820	1850	1820	2195	1383	1830	2.703202	4.94686	RHYc, weakly muscovite altered, silicic bands, wispy sphalerite-galena, well foliated, fractured	FC
K17-447	Calibration	2710					2710			Stop 12:00	FC
K17-447	Calibration	2710					2710			Start 13:00	FC
K17-447	149.4	2850	3020	2760	1774	1129	2876.667	2.750388	7.911948	MDSc, carbonaceous-siliceous, wispy po, well foliated, crenulation cleavage	FC
K17-447	150	3110	2980	3120	1981	1263	3070	2.759053	8.470292	MDSc, carbonaceous-siliceous, foliaform quartz veinlet, abundant wispy po, well foliated, weakly fractured	FC
K17-447	151.3	3330	3420	3340	2034	1330	3363.333	2.889205	9.717358	SED (?), quartz-sericite-biotite, quartz-calcite veinlet (2 cm wide) and patches, abundant po in foliation, foliated	FC
K17-447	153	3570	3780	3670	1369	871	3673.333	2.748996	10.09798	SLT, quartz-sericite, rounded blue quartz eyes, foliated, weakly fractured	FC
K17-447	155.1	2480	2520	2420	1705	1077	2473.333	2.714968	6.715021	RHYvx, quartz-sericite-biotite, abundant rounded blue quartz eyes, weakly foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	155.9	3150	3250	3020	1521	972	3140	2.770492	8.699344	RHYvx, weakly muscovite altered, quartz-sericite-feldspar crystals ankerite altered, abundant rounded blue quartz eyes, calcite veinlet-weakly vuggy-associated with py, weakly foliated	FC
K17-447	157	2520	2110	2650	1619	989	2426.667	2.569841	6.236148	MAFt, sericite-chlorite-calcite-biotite, vuggy (banded vugs), weakly foliated	FC
K17-447	159.2	4670	4670	4670	1894	1213	4670	2.781204	12.98822	RHYvx, weakly muscovite altered, quartz-sericite-rare feldspar calcite altered, rounded blue quartz eyes, quartz-calcite veinlet (cm wide), wispy po, weakly foliated	FC
K17-447	160	3250	3400	3280	1808	1151	3310	2.751903	9.108798	RHYvx, weakly muscovite altered, quartz-sericite-rare feldspar calcite altered, abundant rounded blue quartz eyes, wispy and banded po, weakly foliated	FC
K17-447	161.3	4320	4210	4490	1826	1163	4340	2.754148	11.953	RHYvx, altered-bleached, quartz-sericite-rare feldspar calcite altered, weakly foliated-banded, weakly fractured-pyrite infill	FC
K17-447	162	4450	4410	4440	2024	1287	4433.333	2.746269	12.17512	RHYvx, quartz-sericite-rare feldspar calcite altered, abundant rounded blue quartz eyes, wispy po, foliated	FC
K17-447	163	4620	4550	4780	2336	1491	4650	2.764497	12.85491	RHYvx, quartz-sericite-rare feldspar calcite altered, abundant rounded blue quartz eyes, wispy po-po veinlets, foliated	FC
K17-447	163.8	3510	3530	3650	1680	1068	3563.333	2.745098	9.781699	RHYvx, quartz-sericite-rare feldspar calcite altered, abundant rounded blue quartz eyes, wispy po-po veinlets, foliated, weakly fractured	FC
K17-447	165	3730	3730	3700	1656	1054	3720	2.750831	10.23309	RHYvx, quartz-sericite-rare feldspar calcite altered, abundant rounded blue quartz eyes, weakly foliated	FC
K17-447	166.2	3500	3800	3540	1328	845	3613.333	2.749482	9.934796	RHYvx, weakly muscovite altered, quartz-sericite, abundant rounded blue quartz eyes, wispy py, calcite-py veinlet, weakly foliated	FC
K17-447	166.8	3380	3150	3320	1390	888	3283.333	2.768924	9.091301	RHYvx, weakly muscovite altered, quartz-sericite-rare feldspar calcite altered, abundant rounded blue quartz eyes, wispy py, weakly foliated	FC
K17-447	168.5	2840	2830	2620	2081	1331	2763.333	2.774667	7.667329	MDSc, carbonaceous-siliceous, wispy and disseminated po, foliated, abundant micro fractures	FC
K17-447	173.7	2790	2680	2300	2422	1585	2590	2.893668	7.4946	SLT, quartz-sericite, bleached, quartz veinlets and patch, disseminated py, poorly foliated, moderately to strongly fractured	FC
K17-447	175.2	3170	3160	3110	1751	1101	3146.667	2.693846	8.476636	MDSc, carbonaceous-siliceous, homogeneous, disseminated py, poorly foliated, thin fracture set	FC
K17-447	176.3	2580	2750	2750	2349	1510	2693.333	2.799762	7.540691	MAFt, sericite-calcite-lesser chlorite-quartz, wispy po, poorly foliated, locally vuggy	FC
K17-447	176.8	2570	2870	2320	1432	913	2586.667	2.759152	7.137007	MAFt, sericite-calcite-lesser chlorite-quartz, vuggy, moderately to strongly fractured	FC
K17-447	180.3	2330	2680	2570	1383	880	2526.667	2.749503	6.947078	MDSc, carbonaceous-siliceous, poorly foliated, strongly fractured (healed) to locally brecciated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	183.7	3050	2470	2280	1463	951	2600	2.857422	7.429297	RHYvl, quartz-sericite, moderately carbonaceous, locally bleached, wispy quartz, foliated, fractured	FC
K17-447	185.3	2100	2300	2280	2005	1282	2226.667	2.773167	6.174919	RHYvl, quartz-sericite, altered-bleached, wispy quartz, foliated, moderately to strongly fractured-clay infill (weak shearing ?)	FC
K17-447	186	2880	2770	2850	1895	1212	2833.333	2.774524	7.861152	RHYvl, quartz-sericite, locally bleached, wispy quartz, foliated, fractured	FC
K17-447	Calibration	2710					2710			Calibration 15:00	FC
K17-447	189	4600	4870	4810	2091	1363	4760	2.872253	13.67192	RHYvl, sericite-quartz-fine grained biotite, bleached, quartz-calcite veinlets wispy to patchy calcite with boudinage, disseminated po, poorly floated, fractured	FC
K17-447	190	5230	5190	5140	1762	1110	5186.667	2.702454	14.01673	RHYvl, quartz-sericite, quartz-calcite veinlet, disseminated po, foliated to silica banded	FC
K17-447	Calibration	2710					2710			Calibration 16:30 due to suspicious values	FC
K17-447	191.2	4660	4370	4780	2302	1495	4603.333	2.85254	13.13119	MAFt, chlorite-quartz-sericite-patchy to banded biotite porphyroblasts-patchy calcite, possibly fold nose, poorly foliated, thin crosscutting fracture	FC
K17-447	192	5000	4970	5080	2326	1505	5016.667	2.83313	14.21287	MAFt, chlorite-quartz-calcite-banded biotite porphyroblasts, calcite patch, possibly rhyolite xenolith, no significant foliation	FC
K17-447	193	5380	5150	5260	2787	1849	5263.333	2.971215	15.6385	MAFt, chlorite-biotite-sericite-lesser quartz, biotite veinlets, calcite-quartz veinlets, possibly fold nose-folded foliation, weakly fractured	FC
K17-447	194.4	3960	4590	4870	2284	1451	4473.333	2.741897	12.26542	MDSc, carbonaceous-siliceous, rare wavy quartz veinlets, disseminated po, possibly primary bedding, weakly foliated, micro fractures	FC
K17-447	195	5070	4950	4980	2081	1343	5000	2.819783	14.09892	MAFt (?)-silica flooded (?), sericite-quartz-biotite, crosscutting wavy quartz-calcite/quartz-biotite enveloped veinlets, possibly secondary foliation marked by biotite, weakly foliated	FC
K17-447	196	4900	4530	4570	1566	1055	4666.667	3.064579	14.30137	MAFt (?)-silica flooded (?), quartz-chlorite-rare biotite porphyroblasts-blebby calcite, disseminated po, poorly foliated (crenulation)	FC
K17-447	197.1	4730	4750	4090	1737	1106	4523.333	2.752773	12.45171	MAFt (?)-silica flooded (?), quartz-biotite-chlorite-blebby calcite, poorly foliated	FC
K17-447	198	4630	4240	4620	1568	1021	4496.667	2.866545	12.8899	MAFt, chlorite-biotite-sericite-lesser quartz-blebby calcite, wavy biotite banded	FC
K17-447	199.2	4040	3910	4356	2202	1412	4102	2.787342	11.43368	MAFt (?)-silica flooded (?), quartz-sericite-chlorite-wispy calcite-biotite, wispy po, banded to well foliated	FC
K17-447	200	3570	4630	3560	1902	1211	3920	2.752533	10.78993	MAFt (?)-silica flooded (?), quartz-chlorite-biotite-calcite, wispy po, possibly secondary foliation marked by biotite, foliated-weak crenulation	FC
K17-447	200.9	4340	4630	4500	1883	1203	4490	2.769118	12.43334	RHYvx, quartz-sericite-chlorite-biotite, rounded blue quartz eyes, strongly siliceous bands, poorly foliated (different rheology between bands)	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	202	4160	4170	4140	2110	1367	4156.667	2.839838	11.80426	RHYvx (?), quartz-sericite-biotite-blebby calcite, wavy calcite veinlets, wispy po associated with calcite, no significant fabric	FC
K17-447	203.2	4120	3850	3960	1547	999	3976.667	2.822993	11.2261	RHYvx (?), sericite-quartz-calcite-biotite, abundant discordant calcite-quartz veinlets, biotite patches, abundant crosscutting fracture showing weakly altered envelop, chaotic, possibly lithic fragments, healed fractures	FC
K17-447	204	4110	4070	4230	1920	1238	4136.667	2.815249	11.64575	RHYvx (?), quartz-sericite-biotite, discordant quartz veinlets set with envelop, possibly strong silicification, calcite in thin irregular fracture, disseminated po, no significant fabric	FC
K17-447	205	3750	3650	3820	1906	1226	3740	2.802941	10.483	RHYvx (?), quartz-sericite-biotite-calcite, discordant quartz veinlet with envelop (alteration halo), possibly strong silicification, wispy to blebby calcite, disseminated po, no significant fabric	FC
K17-447	206.1	4180	3970	4050	1429	924	4066.667	2.829703	11.50746	RHYvx (?), quartz-sericite-biotite-calcite, disseminated po, wispy wavy calcite veinlets, poorly foliated	FC
K17-447	Calibration	2690					2690			Stop 18:00	FC
K17-447	Calibration	2710					2710			Start 9:30 am	FC
K17-447	207	3590	3600	3520	1971	1276	3570	2.835971	10.12442	RHYvx (?), quartz-sericite-biotite-calcite, discordant quartz veinlets set with envelop (alteration halo), possibly strong silicification, disseminated po, wispy calcite and calcite veinlets, poorly foliated	FC
K17-447	208	3690	3490	3720	1820	1169	3633.333	2.795699	10.15771	RHYvx (?), quartz-sericite-biotite-calcite, disseminated po, foliated	FC
K17-447	209.1	4600	4720	4780	1576	1002	4700	2.745645	12.90453	RHYva, quartz-sericite-wispy calcite, poorly foliated	FC
K17-447	210	4950	4820	4920	1483	944	4896.667	2.751391	13.47265	RHYva, quartz-sericite-wispy calcite-disseminated biotite, poorly foliated	FC
K17-447	211.2	4620	4550	4620	2006	1285	4596.667	2.782247	12.78906	RHYva, quartz-sericite-wispy calcite, calcite patches, biotite crosscutting veinlets, poorly foliated	FC
K17-447	211.9	4370	4310	4350	2070	1322	4343.333	2.76738	12.01965	RHYva, quartz-sericite-wispy calcite-disseminated biotite, rare blue quartz eyes, poorly foliated	FC
K17-447	213	4760	4870	4840	1830	1167	4823.333	2.760181	13.31327	RHYvx, quartz-sericite-biotite-calcite, no significant fabric	FC
K17-447	214	2910	2920	2860	1500	955	2896.667	2.752294	7.972477	RHYvx, quartz-sericite-calcite, ankerite-calcite altered, rounded blue quartz eyes, poorly foliated, strongly fractured	FC
K17-447	Calibration	2720					2720			Calibration 10:30 am	FC
K17-447	215.3	4820	4870	4820	1567	1003	4836.667	2.778369	13.43804	RHYvx, quartz-sericite-calcite-disseminated biotite, rounded blue quartz eyes, poorly foliated, fracture quartz infill	FC
K17-447	216	4730	4720	4670	1859	1186	4706.667	2.762259	13.00103	RHYvx, quartz-sericite-calcite-disseminated biotite, rounded blue quartz eyes, poorly foliated	FC
K17-447	217	4250	4170	4210	2511	1611	4210	2.79	11.7459	RHYvx, quartz-sericite-calcite-disseminated biotite, rounded blue quartz eyes, poorly foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	218.9	4320	4130	4190	1392	883	4213.333	2.734774	11.52251	RHYvx, quartz-sericite-calcite-disseminated biotite, rounded blue quartz eyes, poorly foliated	FC
K17-447	220	3680	3800	3760	1312	825	3746.667	2.694045	10.09369	RHYc, quartz-sericite, silicic bands, pseudo fragmental, 2 foliations developed, wispy po, foliated	FC
K17-447	221.2	4080	3960	3860	2286	1487	3966.667	2.861076	11.34894	RHYva, quartz-sericite-disseminated biotite, strongly quartz-calcite veined (wavy veinlet set), poorly foliated	FC
K17-447	222.3	3280	3530	3210	2254	1476	3340	2.897172	9.676555	RHYva, quartz-sericite-disseminated biotite, blebby quartz, abundant patchy po, poorly foliated	FC
K17-447	223	3770	3370	3390	2061	1348	3510	2.890603	10.14602	RHYva, quartz-sericite-disseminated biotite-wispy calcite, wavy calcite veinlets, wispy to patchy po, poorly foliated	FC
K17-447	224.2	3040	2770	3000	2597	1696	2936.667	2.882353	8.46451	RHYvx, quartz-sericite-disseminated biotite-chlorite, quartz-calcite bleb, quartz clots, rounded blue quartz eyes, foliated	FC
K17-447	224.8	3950	2980	3020	1564	1010	3316.667	2.823105	9.363297	RHYvx, quartz-sericite-disseminated biotite-chlorite, rounded blue quartz eyes, weakly foliated, healed fractures	FC
K17-447	226	4050	4030	3770	1943	1251	3950	2.807803	11.09082	RHYvx, quartz-sericite-disseminated biotite-chlorite, abundant rounded blue quartz eyes, quartz-calcite veinlet, chloritic bands associated with wispy po, weakly foliated	FC
K17-447	227.2	4390	4300	4310	2416	1554	4345	2.275607	9.887513	RHYvx, quartz-sericite-disseminated biotite, weakly altered, abundant rounded blue quartz eyes, weakly foliated	FC
K17-447	228	3160	3270	3420	2099	1366	3283.333	2.863574	9.402069	RHYvx, chlorite-sericite-quartz-disseminated biotite, calcite veinlets, wispy po, foliated	FC
K17-447	229	2750	2910	2880	2055	1335	2846.667	2.854167	8.124861	RHYvx, quartz-sericite-disseminated biotite, abundant rounded blue quartz eyes, quartz-calcite veinlet/patches, poorly foliated	FC
K17-447	230	2520	2460	2550	1724	1108	2510	2.798701	7.02474	RHYvx, quartz-sericite, muscovite-sericite altered, calcite paces, abundant wispy po, weakly foliated, weakly fractured (clay-sericite infill)	FC
K17-447	231	2770	2950	2990	2043	1311	2903.333	2.790984	8.103156	RHYvx, quartz-sericite, muscovite-sericite altered, abundant quartz calcite paces, wispy po, weakly foliated	FC
K17-447	232	2900	2940	2940	1597	1019	2926.667	2.762976	8.086309	RHYvx, quartz-sericite-disseminated biotite, quartz-calcite patches, rounded blue quartz eyes, poorly foliated	FC
K17-447	233.3	1990	2050	2040	1883	1198	2026.667	2.748905	5.571114	RHYvx, quartz-sericite-disseminated biotite, quartz-calcite patches, rounded blue quartz eyes, poorly foliated	FC
K17-447	234	2690	2540	2570	1790	1148	2600	2.788162	7.249221	RHYvx, quartz-sericite, banded, secondary foliation developed, rounded blue quartz eyes in quartz rich bands-possibly xenolith, poorly irregularly foliated	FC
K17-447	235	2740	2680	2850	1491	953	2756.667	2.771375	7.639758	RHYvx, quartz-sericite, banded, secondary foliation developed, irregularly foliated possibly due to rheology change	FC
K17-447	236.1	2230	2160	2070	1244	793	2153.333	2.758315	5.939571	MDSc, carbonaceous-siliceous, quartz-po blebs (pressure shadow), foliated	FC
K17-447	236.9	2180	2200	2270	1681	1073	2216.667	2.764803	6.128646	MDSc, carbonaceous-siliceous, quartz blebs, secondary foliation-locally crenulation cleavage	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	238	2560	2540	2430	1859	1186	2510	2.762259	6.933269	MDSc, carbonaceous-siliceous, quartz blebs, wispy po, foliated, weakly fractured	FC
K17-447	239.1	2620	2670	2600	1477	945	2630	2.776316	7.301711	MDSc, carbonaceous-siliceous, quartz-po blebs, weak secondary foliation-locally crenulation cleavage	FC
K17-447	240	2580	2490	2400	1917	1213	2490	2.723011	6.780298	MDSc, carbonaceous-siliceous, quartz blebs, disseminated po, wavy quartz discontinuous veinlets, foliated	FC
K17-447	Calibration	2700					2700			Stop 12:00	FC
K17-447	Calibration	2710					2710			Start 13:00	FC
K17-447	241	2400	2310	2440	1614	1027	2383.333	2.749574	6.553152	MDSc, carbonaceous-siliceous, calcite-quartz blebs, quartz veinlet, wispy po, secondary foliation-crenulation cleavage	FC
K17-447	242.2	4570	4730	4720	1709	1064	4673.333	2.649612	12.38252	Massive quartz vein, calcite patch and in fracture, rare muscovite patches, moderately fractured in carbonaceous mudstone	FC
K17-447	243	2560	2780	2670	1755	1106	2670	2.70416	7.220108	MDSc, carbonaceous-siliceous, wispy calcite-quartz, quartz veinlet, wispy po, secondary foliation-crenulation cleavage	FC
K17-447	244	3860	4270	3290	1996	1291	3806.667	2.831206	10.77746	MAFta, sericite-muscovite-calcite, calcite bands and foliaform veinlets, abundant wispy po, foliated	FC
K17-447	244.9	3210	3290	3300	2110	1352	3266.667	2.783641	9.093228	MDSc, carbonaceous, sericite-lesser quartz, wispy to blebby quartz-calcite, disseminated po, foliated	FC
K17-447	246	3050	2850	3240	2080	1330	3046.667	2.773333	8.449422	MDSc, carbonaceous, sericite-lesser quartz, wispy to blebby quartz-calcite, disseminated po, foliated	FC
K17-447	247	3300	3650	3860	1492	954	3603.333	2.773234	9.992887	MDSc, carbonaceous, sericite-lesser quartz, quartz-calcite pods, disseminated-wispy po, foliated	FC
K17-447	248.2	3660	4110	4090	1831	1176	3953.333	2.79542	11.05123	MDSc, carbonaceous, sericite-lesser quartz, wispy to blebby quartz-calcite, disseminated po, foliated	FC
K17-447	249	3610	4040	3740	2179	1401	3796.667	2.800771	10.63359	MDSc, carbonaceous, sericite-lesser quartz, wispy to blebby quartz-calcite, wispy po, disseminated po, weakly foliated-secondary foliation poorly developed	FC
K17-447	250	3300	3210	3160	1956	1255	3223.333	2.7903	8.994066	MDSc, carbonaceous, sericite-lesser quartz, wispy to blebby quartz-calcite, disseminated po, secondary foliation-crenulation cleavage	FC
K17-447	252.3	2970	2940	2940	1502	956	2950	2.750916	8.115201	MDSc, carbonaceous, sericite-lesser quartz, wispy quartz-calcite, disseminated po, foliated	FC
K17-447	235.1	3650	4120	2950	1485	950	3573.333	2.775701	9.918505	MDSc, carbonaceous, sericite-quartz, wispy to blebby quartz-calcite, quartz-po blebs, foliated	FC
K17-447	253.8	3150	3240	3040	1835	1136	3143.333	2.625179	8.251812	MDSc, carbonaceous, sericite-quartz, wispy calcite, quartz-po-trace cpy blebs, foliated	FC
K17-447	255.2	2990	2980	2970	1316	840	2980	2.764706	8.238824	MDSc, carbonaceous, sericite-quartz-wispy calcite, quartz-po blebs, foliated	FC
K17-447	256	3110	2880	2940	1613	1032	2976.667	2.776248	8.263964	MAFta, sericite-muscovite-chlorite-calcite-quartz, wispy calcite, locally sericite alteration patch, abundant wispy po, foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	256.9	3130	3080	3070	1607	1032	3093.333	2.794783	8.645194	MDSc, carbonaceous, sericite-quartz, wispy to blebby quartz-calcite, wispy po, foliated-crenulation cleavage	FC
K17-447	258	2690	2660	2700	1559	999	2683.333	2.783929	7.470208	MDSc, carbonaceous, sericite-quartz, wispy to blebby quartz-calcite, abundant quartz-po blebs, foliated, thin fracture along the core axis	FC
K17-447	259.2	2830	2770	2440	1650	1031	2680	2.66559	7.14378	MDSc, carbonaceous, sericite-quartz, abundant wavy quartz-calcite veinlets, wispy to blebby po, sawtooth contact with mafic tuff, foliated-secondary foliation poorly developed	FC
K17-447	260.2	4260	3850	4260	1486	951	4123.333	2.77757	11.45285	MDSc, carbonaceous, sericite-quartz-rare wispy calcite, wispy po, foliated	FC
K17-447	261	3320	3660	3030	1617	1034	3336.667	2.773585	9.254528	MDSc, carbonaceous, sericite-quartz, abundant wavy quartz-calcite discontinuous veinlets, wispy po, foliated	FC
K17-447	262	3040	2990	2980	1558	997	3003.333	2.777184	8.340808	MDSc, carbonaceous, quartz-sericite, quartz-calcite veinlet, wispy po, well foliated	FC
K17-447	262.8	2650	2480	2630	1559	1000	2586.667	2.788909	7.213977	MDSc, carbonaceous, quartz-sericite, quartz-calcite-po blebs, disseminated po, wispy calcite, foliated	FC
K17-447	264	3140	3010	2850	1759	1127	3000	2.783228	8.349684	MDSc, carbonaceous, quartz-sericite, wispy po, foliated-secondary foliation poorly developed	FC
K17-447	265	3970	3940	3900	1776	1142	3936.667	2.801262	11.02763	MAFta, chlorite-sericite-quartz-fine grained biotite, abundant blebby quartz-calcite, quartz-calcite veinlet, poorly foliated, micro fractured	FC
K17-447	267	3020	2860	3200	1624	1035	3026.667	2.757216	8.345173	MDSc, carbonaceous, quartz-sericite, quartz-calcite blebs, foliated-secondary foliation poorly developed	FC
K17-447	268	4360	3990	4030	1601	1023	4126.667	2.769896	11.43044	MDSc, carbonaceous, quartz-sericite-calcite, quartz-po blebs, weakly foliated-secondary foliation poorly developed	FC
K17-447	Calibration	2710					2710			Calibration 14:30 due to suspicious values	FC
K17-447	269.1	2560	2600	2700	1676	1070	2620	2.765677	7.246073	MDSc, carbonaceous, quartz-sericite-calcite (moderate to strong), calcite-quartz-po blebs, weakly foliated-secondary foliation weakly developed	FC
K17-447	269.8	3520	3460	3330	1662	1059	3436.667	2.756219	9.472206	MDSc, carbonaceous, quartz-sericite-calcite (moderate to strong), weakly foliated-secondary foliation poorly developed	FC
K17-447	271	2660	2770	2960	1695	1099	2796.667	2.84396	7.953607	MDSc, carbonaceous, quartz-sericite-calcite, quartz-calcite blebs, abundant late po, wavy foliation-secondary foliation poorly developed-boudinage	FC
K17-447	272.3	1850	2040	1750	1293	829	1880	2.786638	5.238879	MDSc, carbonaceous, quartz-sericite, cm wide quartz-calcite bands, wispy po, foliated, micro fractured	FC
K17-447	273	3190	3870	2720	1492	946	3260	2.732601	8.908278	MDSc, carbonaceous, quartz-sericite, 10 cm wide quartz-calcite pod-possibly fold nose, wispy po weakly foliated	FC
K17-447	274	3070	3010	3040	1997	1276	3040	2.769764	8.420083	MDSc, carbonaceous, quartz-sericite, wispy to cm wide quartz-calcite discontinuous veinlet, foliated, fracture set 30 degrees to core axis-moderately to strongly fractured	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	274.8	3830	4320	3650	1413	895	3933.333	2.727799	10.72934	MDSc and quartz-calcite-po pods/massive vein, quartz weakly fractured,	FC
K17-447	276	3330	3210	3120	2066	1324	3220	2.784367	8.96566	MDSc, carbonaceous, quartz-sericite, quartz-po blebs, wavy quartz veinlet, wispy po, foliated, thin fracture along the core axis	FC
K17-447	277	4630	4460	4760	2189	1408	4616.667	2.802817	12.93967	MDSc, carbonaceous, quartz-sericite, quartz-po blebs, wispy po, foliated	FC
K17-447	278.2	3780	3550	3610	1550	998	3646.667	2.807971	10.23973	MDSc, carbonaceous, quartz-sericite, quartz-po blebs, wispy po, foliated	FC
K17-447	279	3390	3420	3180	1943	1247	3330	2.791667	9.29625	MDSc, carbonaceous, quartz-sericite, quartz-po blebs, wispy po, foliated	FC
K17-447	280.2	2912	3030	2970	2212	1423	2970.667	2.803549	8.328409	MDSc, carbonaceous, quartz-sericite, quartz-po blebs, wispy po, foliaform thin quartz veinlets, foliated, weakly fractured-locally vuggy	FC
K17-447	Calibration	2720					2720			Calibration 15:30	FC
K17-447	281.1	3520	3530	3690	1903	1198	3580	2.699291	9.663461	RHYc, quartz-sericite-weakly wispy carbonaceous, conglomeritic texture, well foliated, thin fractures 20 degrees to core axis	FC
K17-447	282	3200	3190	3300	1820	1165	3230	2.778626	8.974962	MDSc, quartz-sericite, weakly carbonaceous, disseminated po, foliated, weakly fractured	FC
K17-447	283	3450	3340	3490	1723	1106	3426.667	2.792545	9.569119	MDSc, sericite-quartz, weakly carbonaceous, disseminated po, foliated-secondary foliation poorly developed	FC
K17-447	284.2	3670	3710	3870	1752	1126	3750	2.798722	10.49521	MDSc, quartz-sericite, weakly carbonaceous, disseminated po, weakly foliated, weakly micro fractured	FC
K17-447	285	3160	3390	3370	1713	1100	3306.667	2.794454	9.240326	MDSc, quartz-sericite, weakly carbonaceous, disseminated po, py-quartz crosscutting veinlet, weakly foliated-secondary foliation poorly developed,	FC
K17-447	286	3330	3180	3130	1801	1159	3213.333	2.805296	9.014351	Contact between MDSc and MAFta-sericitized-chlorite, quartz-calcite veinlets, wispy po, thin foliation marked by alteration, weakly micro fractured	FC
K17-447	287.9	2690	2580	2690	1212	763	2653.333	2.699332	7.162227	SED, conglomerate, siliceous-carbonaceous 2-3 cm clasts-clast supported, sericite matrix, well foliated	FC
K17-447	289	2940	2860	2730	2083	1330	2843.333	2.766268	7.865423	SED, silicic bands-sericite-lesser calcite, wavy foliation-secondary foliation, thin fracture set perpendicular to core axis	FC
K17-447	290.1	2790	2880	2810	1812	1165	2826.667	2.800618	7.916414	RHYv, sericite-quartz-disseminated biotite porphyroblasts-calcite clots, wispy po, foliated, thin fracture set 20-40 degrees to core axis	FC
K17-447	291	3530	2690	3530	1685	1081	3250	2.789735	9.066639	RHYv, sericite-quartz-disseminated biotite porphyroblasts-calcite clots, wispy po, foliated, weakly micro fractured	FC
K17-447	292	3980	3520	3890	1865	1199	3796.667	2.8003	10.63181	RHYv, sericite-quartz-disseminated biotite porphyroblasts-calcite clots, disseminated po, weakly foliated, weakly micro fractured	FC
K17-447	293.2	4870	4760	5070	1823	1177	4900	2.821981	13.82771	RHYv, sericite-quartz-disseminated biotite porphyroblasts, calcite flooded (20%), disseminated po, weakly foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	294	5340	5560	5340	2274	1467	5413.333	2.817844	15.25393	RHYv, sericite-quartz-calcite blebs/veinlets/clots-disseminated biotite porphyroblasts, poorly foliated	FC
K17-447	295	5340	5490	5450	1681	1082	5426.667	2.806344	15.22909	RHYv, sericite-quartz-calcite blebs/veinlets-disseminated biotite porphyroblasts and bands, wispy po, weakly foliated	FC
K17-447	295.8	4490	4500	4480	1400	895	4490	2.772277	12.44752	RHYv, sericite-quartz-disseminated biotite porphyroblasts, weakly foliated-possibly secondary foliation, weakly micro fractured	FC
K17-447	297	3280	3560	3180	1843	1156	3340	2.682678	8.960146	RHYi, quartz-disseminated py, aphanitic-glassy, 10 cm quartz vein, poorly foliated, fractured	FC
K17-447	298	3000	4000	3710	1755	1141	3570	2.858306	10.20415	RHYv, sericite-quartz-wispy wavy banded calcite-biotite porphyroblasts, weakly foliated	FC
K17-447	299.1	4000	3960	4070	1990	1261	4010	2.729767	10.94636	RHYv, sericite-quartz-rare biotite porphyroblasts, discordant wavy quartz-lesser calcite veinlets, quartz veinlets spider web texture (silica flooded (?), irregular foliation	FC
K17-447	300	3670	3370	3360	1887	1190	3466.667	2.707317	9.385366	RHYv-silica flooded (strongly siliceous), crackled texture along quartz-calcite veinlet-alteration envelop, healed fracture-shearing	FC
K17-447	301.1	2210	2290	2190	1279	827	2230	2.829646	6.310111	RHYv, sericite-quartz-rare biotite porphyroblasts, quartz-calcite wavy-deformed blebs, secondary foliation poorly developed, micro fractured	FC
K17-447	303.1	2780	2690	2450	1282	820	2640	2.774892	7.325714	MDSc, moderately carbonaceous, sericite-calcite (strongly calcareous)-quartz-rare biotite porphyroblasts, blebby po, well foliated	FC
K17-447	304	3090	3170	3090	1650	1058	3116.667	2.787162	8.686655	MDSc, moderately carbonaceous, sericite-calcite-quartz, disseminated po, foliated-wavy foliation within calcareous patch (rheology change ?)	FC
K17-447	305.2	2170	2680	2760	1974	1263	2536.667	2.776371	7.042729	MDSc, carbonaceous, quartz-calcite banded, weakly calcareous, blebby po, strongly foliated-locally deformed foliation	FC
K17-447	306	2970	2260	4080	1949	1174	3103.333	2.514839	7.804383	MDSc, carbonaceous, calcite-quartz, moderately calcareous, quartz veinlets, blebby po, foliated, open fracture and micro fracture	FC
K17-447	307	3720	3610	3280	1806	1143	3536.667	2.723982	9.633816	MAFt, quartz-chlorite-sericite, possibly silicified, calcite veinlet (deformed and non deformed) crosscutting foliation, weakly foliated, silica veinlet ghosts-possibly healed fractured	FC
K17-447	308.1	2420	2390	2430	1542	998	2413.333	2.834559	6.840735	MDSc, carbonaceous-siliceous, wispy calcite, disseminated to blebby po, well foliated	FC
K17-447	309	2010	2050	2500	1748	1131	2186.667	2.833063	6.194965	MDSc, sericite-calcite-biotite-quartz, moderately to strongly calcite altered, calcite veinlet/blebs/clots, biotite porphyroblasts, abundant disseminated po, weakly foliated, healed fracture with alteration envelop 35 degrees to core axis	FC
K17-447	310	3680	3530	3540	2241	1427	3583.333	2.753071	9.865172	MDSc, abundant quartz pods-calcite-dolomite-lesser sericite in carbonaceous mudstone, chaotic texture, strongly deformed	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	311	3830	3250	2920	1616	1005	3333.333	2.644845	8.816148	Quartz-dolomite massive vein, talc inclusion, strongly fractured (horse tail), multiphase	FC
K17-447	312	2960	2590	2330	1238	779	2626.667	2.697168	7.084561	RHYvx, quartz-sericite, weakly bleached, poorly foliated, healed fracture-py infill	FC
K17-447	313	3390	3370	3310	2419	1567	3356.667	2.839202	9.530254	RHYvx, quartz-sericite-lesser wispy calcite, weakly foliated	FC
K17-447	314.2	2570	2710	2900	1447	913	2726.667	2.709738	7.388552	RHYvx, quartz-sericite-lesser wispy calcite/blebs, possibly silicified, poorly foliated	FC
K17-447	315.9	2760	2490	2680	1562	1000	2643.333	2.779359	7.346773	RHYvl, possibly lapillitic, sericite-quartz-biotite-chlorite, well foliated, healed quartz infill fracture along the core axis	FC
K17-447	317	4950	4760	4250	2616	1692	4653.333	2.831169	13.17437	Dirty quartz-calcite-chlorite-late tourmaline massive vein, fractured, alteration halo, sericite schist hosted	FC
K17-447	319	3280	2590	3060	1616	1014	2976.667	2.684385	7.99052	RHYvl, quartz-sericite, well foliated, open fracture-weak alteration envelop	FC
K17-447	319.8	3540	3450	3430	1927	1231	3473.333	2.768678	9.616542	RHYvl, quartz-sericite-biotite, lapilli, well foliated	FC
K17-447	Calibration	2720					2720			Stop 18:00	FC
K17-447	Calibration	2710					2710			Start 9:00 am	FC
K17-447	312	4320	4670	4660	1720	1099	4550	2.769726	12.60225	RHYvl, sericite-quartz-chlorite-biotite-wispy calcite, lapilli, disseminated po, foliated, thin healed fractures-quartz infill	FC
K17-447	322.1	4480	4340	4390	2106	1341	4403.333	2.752941	12.12212	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, disseminated po, well foliated	FC
K17-447	323	5030	4440	4310	2100	1339	4593.333	2.759527	12.67543	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, rare calcite-chlorite blebs, disseminated po, well foliated	FC
K17-447	324	4970	4620	4310	2267	1443	4633.333	2.751214	12.74729	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, disseminated po, well foliated, weakly fractured	FC
K17-447	325	4660	4730	4810	2574	1655	4733.333	2.800871	13.25745	RHYvl, sericite-chlorite-calcite-biotite-quartz, blebby to patchy calcite-chlorite (unconsolidated sediment?), weakly foliated	FC
K17-447	325.9	4660	4640	4780	2072	1317	4693.333	2.744371	12.88025	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, disseminated po, well foliated	FC
K17-447	327	4640	4690	4480	2148	1371	4603.333	2.764479	12.72582	RHYvl, sericite-quartz-chlorite-biotite, rare calcite-chlorite blebs, disseminated po, foliated, healed fracture-calcite-chlorite infill	FC
K17-447	328	4690	4850	4640	1933	1234	4726.667	2.765379	13.07103	RHYvl, sericite-chlorite-biotite-quartz-trace calcite, lapilli, disseminated po, weak sericite alteration along foliation, foliated, fractured, micro fractured	FC
K17-447	329	4500	4450	4430	2524	1653	4460	2.897819	12.92427	RHYc, quartz-sericite, silicic bands, ankerite-dolomite alteration, tourmaline veinlet-selvage penetrating foliation, foliated	FC
K17-447	330.3	3880	3560	3590	1544	977	3676.667	2.723104	10.01195	RHYc, quartz-sericite-dolomite, silicic bands, muscovite altered, well foliated, healed fracture along the core axis-quartz infill, moderately fractured	FC
K17-447	331	4480	4440	4620	2765	1788	4513.333	2.830092	12.77315	RHYvl, sericite-quartz-chlorite-biotite, wispy calcite-chlorite, late sericite alteration along the foliation (weak), well foliated, micro fractured	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	332.1	4660	4440	4320	1607	1030	4473.333	2.785095	12.45866	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, disseminated po, well foliated, micro fractured	FC
K17-447	333	5120	5560	5600	2397	1530	5426.667	2.764706	15.00314	Dirty massive quartz vein sericite schist hosted, calcite-chlorite-biotite inclusion, silicic bands at contact, fractured	FC
K17-447	334	3420	3370	2770	2007	1285	3186.667	2.779778	8.858227	RHYvl, quartz-sericite-biotite-calcite, calcite-chlorite band, chlorite replacing lapilli, quartz veinlet-trace galena, well foliated, healed fracture 20 degrees to core axis	FC
K17-447	334.9	4050	4130	4170	2496	1611	4116.667	2.820339	11.6104	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, late sericite alteration along the foliation, well foliated, weakly fractured-micro fractured	FC
K17-447	Calibration	2700					2700			Calibration 10:30 am	FC
K17-447	336.2	4320	4050	4320	1599	1026	4230	2.790576	11.80414	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, late sericite alteration along the foliation, well foliated, fractured-quart-calcite infill	FC
K17-447	337	3890	4050	4090	1856	1188	4010	2.778443	11.14156	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, late sericite alteration along the foliation, well foliated, weakly fractured-micro fractured	FC
K17-447	338	4410	4500	4420	2238	1436	4443.333	2.790524	12.39923	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, late sericite alteration along the foliation, well foliated, weakly fractured-micro fractured	FC
K17-447	339	3880	3590	3690	2038	1312	3720	2.807163	10.44264	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, late sericite alteration along the foliation, well foliated, weakly fractured-micro fractured	FC
K17-447	339.8	4390	4370	4300	1851	1177	4353.333	2.746291	11.95552	RHYcf, quartz-sericite-subhedral feldspar calcite altered (possibly crystal fragments), poorly sorted, weakly vesicular-vuggy, discordant irregular tourmaline veinlet, weakly foliated, healed fracture	FC
K17-447	341	2380	2220	2150	1496	953	2250	2.755064	6.198895	RHYcf, sericite-subhedral feldspar calcite altered (possibly crystal fragments)-quartz, poorly sorted, vesicular-vuggy, weakly foliated, fractured	FC
K17-447	342	2420	2010	2540	1690	1067	2323.333	2.712681	6.302461	RHYcf, sericite-subhedral feldspar calcite altered (possibly crystal fragments)-quartz, poorly sorted, disseminated py, vesicular-vuggy, weakly foliated, weakly fractured	FC
K17-447	343	3250	3010	3070	1692	1091	3110	2.815308	8.755607	RHYcf, sericite-subhedral feldspar calcite altered (possibly crystal fragments)-quartz, poorly sorted, weakly vesicular-vuggy, 8 cm wide quartz-calcite tourmaline vein-brecciated, quartz veinlet, , weakly foliated	FC
K17-447	344.1	3640	3520	3570	1640	1043	3576.667	2.747069	9.825349	RHYcf, quartz-sericite-subhedral feldspar calcite altered (possibly crystal fragments-lapilli), poorly sorted, well foliated	FC
K17-447	345	4370	3860	4420	1820	1158	4216.667	2.749245	11.59265	RHYcf, quartz-sericite-subhedral feldspar calcite altered (possibly crystal fragments-lapilli), poorly sorted, well foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	346	3550	3570	3420	1950	1235	3513.333	2.727273	9.581818	RHYcf, sericite-subhedral feldspar calcite altered (possibly crystal fragments-lapilli)-quartz, poorly sorted, well foliated	FC
K17-447	347.1	2770	2940	2870	1299	812	2860	2.667351	7.628624	RHYc, quartz-sericite-dolomite, silicic bands, muscovite altered, well foliated, healed fractures quartz infill, moderately fractured	FC
K17-447	348.3	3340	3160	3190	1742	1100	3230	2.713396	8.764268	RHYva, sericite-quartz-dolomite altered, silicic bands, bleached texture, possibly clay alteration, banded, strongly fractured	FC
K17-447	350.1	1800	2440	2650	1459	921	2296.667	2.711896	6.228321	RHYcf, quartz-sericite-subhedral feldspar dolomite altered (possibly crystal fragments-lapilli), poorly sorted, foliated, strongly fractured-clay infill	FC
K17-447	350.8	3500	3530	2460	2003	1264	3163.333	2.710419	8.57396	RHYcf, quartz-sericite-subhedral feldspar dolomite altered (possibly crystal fragments-lapilli), poorly sorted, weakly foliated, fractured-clay infill	FC
K17-447	352	2960	3940	3920	1770	1124	3606.667	2.739938	9.882043	RHYcf, quartz-sericite-subhedral feldspar dolomite altered (possibly crystal fragments-lapilli), poorly sorted, well foliated	FC
K17-447	353.1	2980	2920	2940	2127	1358	2946.667	2.76593	8.150273	RHYcf, quartz-sericite-subhedral feldspar dolomite altered (possibly crystal fragments-lapilli), possibly silicified, poorly sorted, well foliated	FC
K17-447	354	3480	3590	3690	2152	1370	3586.667	2.751918	9.870213	RHYcf, quartz-sericite-rare subhedral feldspar dolomite altered (possibly crystal fragments-lapilli), possibly silicified, poorly sorted, foliated, weakly fractured-quartz infill	FC
K17-447	355	3320	3210	3360	1995	1270	3296.667	2.751724	9.071517	RHYcf, quartz-sericite-subhedral feldspar dolomite altered (possibly crystal fragments-lapilli), strongly strained, possibly silicified, poorly sorted, well foliated	FC
K17-447	356.1	4240	4160	4200	1864	1192	4200	2.77381	11.65	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, disseminated po, weakly foliated	FC
K17-447	357	3950	3910	4120	1881	1207	3993.333	2.790801	11.1446	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, disseminated po, weakly foliated, micro fractured	FC
K17-447	358	4200	4370	4300	1693	1085	4290	2.784539	11.94567	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli, disseminated po, weakly foliated, fracture-bleached alteration halo	FC
K17-447	359.1	4250	4340	4230	1416	905	4273.333	2.771037	11.84157	RHYvl, sericite-quartz-chlorite-biotite-trace calcite (wispy), lapilli, disseminated po, weakly foliated	FC
K17-447	360	3550	3390	3500	1788	1137	3480	2.746544	9.557972	RHYvl, sericite-quartz-chlorite-biotite-trace calcite (wispy), lapilli (?), disseminated po, weakly foliated	FC
K17-447	361	3080	3760	3700	2029	1296	3513.333	2.768076	9.725175	RHYvl, sericite-quartz-chlorite-trace calcite, lapilli, weakly sericite altered, rare disseminated po, weakly foliated, healed fractures-chlorite infill	FC
K17-447	362	3630	3810	3000	1660	1057	3480	2.752902	9.5801	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, lapilli chlorite altered, disseminated po, weakly foliated	FC
K17-447	364	3820	4020	3960	2277	1449	3933.333	2.75	10.81667	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, blebby quartz, lapilli chlorite altered, disseminated po, poorly foliated, weakly fractured-sericite-clay infill	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	Calibration	2700					2700			Stop 12:00	FC
K17-447	Calibration	2690					2690	1	2.69	Start 13:00	FC
K17-447	365.1	4220	4270	3960	1813	1161	3084.8	2.780675	8.577826	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, blebby quartz, lapilli chlorite altered, disseminated po, poorly foliated	FC
K17-447	366	4260	4270	4350	1787	1144	4293.333	2.77916	11.93186	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, blebby quartz, lapilli chlorite altered, disseminated po, poorly foliated	FC
K17-447	367.2	4360	4360	4560	1926	1231	4426.667	2.771223	12.26728	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, blebby quartz, lapilli chlorite altered, disseminated po, poorly foliated, weakly fractured	FC
K17-447	368.1	4140	4370	4320	1380	888	4276.667	2.804878	11.99553	RHYvl, sericite-quartz-chlorite-biotite-trace calcite, blebby quartz, lapilli chlorite altered, disseminated po, poorly foliated	FC
K17-447	369	4420	3330	3700	1752	1117	3816.667	2.759055	10.53039	MDSc (?) SLT, quartz-sericite-weakly carbonaceous blebby quartz, weakly foliated, blue rounded quarts eyes, weakly fractured-sericite-clay infill	FC
K17-447	370	4490	4690	4640	1514	960	4606.667	2.732852	12.58934	MDSc (?) SLT, quartz-sericite-weakly carbonaceous, blebby quartz, blue rounded quartz eyes, weakly foliated, weakly fractured-sericite-clay infill	FC
K17-447	370.8	3790	4010	4010	1230	779	3936.667	2.727273	10.73636	MDSc/SLT, quartz-sericite-weakly carbonaceous, blebby to banded quartz-calcite, blue rounded quartz eyes, weakly foliated, weakly fractured-sericite-clay infill	FC
K17-447	371.8	3890	3730	3930	1483	936	3850	2.711152	10.43793	MDSc/RHYvx, quartz-sericite-feldspar or lapilli ankerite altered, weakly carbonaceous (wispy), abundant rounded blue quartz eyes, weakly foliated, weakly fractured	FC
K17-447	373.1	2980	3210	3160	1390	877	3116.667	2.709552	8.444769	MDSc/RHYvx, quartz-sericite-feldspar or lapilli ankerite altered, weakly carbonaceous (wispy), abundant rounded blue quartz eyes, foliated	FC
K17-447	374.2	2860	2990	2750	1886	1205	2866.667	2.769457	7.939109	MDSc, carbonaceous-siliceous, wispy to blebby po, foliated, fractured-micro fracture-quartz infill	FC
K17-447	376	3090	3690	3220	2332	1480	3333.333	2.737089	9.123631	MDSc, carbonaceous-strongly siliceous, wispy to blebby po, rare quartz veinlets, well foliated, healed thin fractures-quartz infill	FC
K17-447	377	4620	4460	3670	2511	1609	4250	2.783814	11.83121	MDSc, carbonaceous-strongly siliceous, wispy to blebby po, calcite rich band, well foliated (thin planar)	FC
K17-447	378	3200	3190	3140	1748	1114	3176.667	2.757098	8.758381	MDSc, carbonaceous-siliceous, wispy to blebby po, well foliated	FC
K17-447	379	2820	2950	2990	2409	1526	2920	2.728199	7.966342	MDSc, carbonaceous-siliceous, wispy to blebby po, conglomeritic texture-rubble sized-matrix supported (sandy), well foliated, healed fractures-quartz-dolomite infill	FC
K17-447	380.1	2340	2450	2310	1509	958	2366.667	2.738657	6.481488	MDSc, carbonaceous-siliceous, wispy to blebby po, conglomeritic texture-rubble sized-matrix supported (sandy), well foliated, healed fractures (set)-quartz-dolomite infill	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	381	2270	2310	2330	2138	1347	2303.333	2.702908	6.225697	MDSc, carbonaceous-siliceous, wispy to blebby po, conglomeritic texture-rubble sized-matrix supported (sandy), well foliated, healed fractures (set)-quartz-dolomite infill	FC
K17-447	382	3190	4170	3420	2301	1456	3593.333	2.723077	9.784923	MDSc, carbonaceous-siliceous, wispy to blebby po, conglomeritic texture-rubble to pebble sized-matrix supported (sandy), well foliated, strongly fractured along the core axis, healed-quartz-dolomite infill, weakly brecciated	FC
K17-447	383	2890	3050	2870	1321	847	2936.667	2.78692	8.184255	MDSc, carbonaceous-weakly siliceous-wispy calcite, wispy to blebby po, foliated	FC
K17-447	384	2660	2650	2700	1921	1209	2670	2.698034	7.20375	MDSc, carbonaceous-siliceous-trace calcite, wispy to blebby po, conglomeritic texture-rubble to pebble sized, well foliated	FC
K17-447	385.1	2350	2680	2370	1303	823	2466.667	2.714583	6.695972	MDSc, carbonaceous-siliceous, wispy to blebby po, conglomeritic texture-rubble to pebble sized, well foliated	FC
K17-447	386.1	2460	2440	2420	1860	1172	2440	2.703488	6.596512	MDSc, carbonaceous-siliceous-trace calcite, wispy to blebby po, conglomeritic texture-rubble sized, foliated, weakly fracture	FC
K17-447	387	2680	2630	2630	2099	1316	2646.667	2.680715	7.09496	MDSc, carbonaceous-siliceous-trace calcite, wispy to blebby po, conglomeritic texture-rubble sized, poorly foliated, fractured along the core axis, healed-to open	FC
K17-447	388	2420	2330	2460	1840	1159	2403.333	2.701909	6.493588	MDSc, carbonaceous-siliceous-trace calcite, wispy to blebby po, conglomeritic texture-rubble sized, weakly brecciated, foliated, open fracture 20 degrees to crore axis	FC
K17-447	389.2	3160	3160	3100	2333	1486	3140	2.754427	8.648902	MDSc, carbonaceous-siliceous, disseminated po, rubble patch, poorly foliated, weakly fractured	FC
K17-447	390.2	2660	2650	2760	1709	1102	2690	2.815486	7.573657	MAFta, chlorite-quartz-biotite-wispy quartz-calcite, wispy po, foliated	FC
K17-447	391	3280	2940	2070	2248	1428	2763.333	2.741463	7.575577	MAFta, chlorite-quartz-biotite, quartz-calcite veinlet set, wispy po, possibly silicified, foliated	FC
K17-447	392.1	2740	2670	2610	1277	810	2673.333	2.734475	7.310164	MAFta, chlorite-quartz-biotite, quartz-calcite veinlet set and blebs, wispy po, possibly silicified, weakly foliated	FC
K17-447	393	2580	2450	2610	2505	1590	2546.667	2.737705	6.972022	MAFta, chlorite-quartz-biotite, quartz-calcite veinlet set (abundant), wispy po, silicified, foliated	FC
K17-447	394	3230	3300	3020	1812	1155	3183.333	2.757991	8.779604	MDSc, carbonaceous-calcite-quartz-sericite, calcite banded, quartz-calcite 2 cm wide veinlet, irregular foliation (bands)	FC
K17-447	395.2	3540	3210	3020	1449	930	3256.667	2.791908	9.092312	Quartz-calcite vein/pod carbonaceous mudstone hosted, mixed with mafic tuff material, chaotic, biotite-po patch, deformed foliation	FC
K17-447	396	4200	3890	3770	1975	1242	3953.333	2.694407	10.65189	MDSc, carbonaceous-strongly siliceous, blebby quartz-calcite, secondary foliation, pseudo fragmental texture to crenulation cleavage, weakly foliated	FC
K17-447	397	4160	4200	4290	2007	1262	4216.667	2.69396	11.35953	MDSc, carbonaceous-strongly siliceous-calcite, lithic fragment patch, well to weakly foliated (blebby)	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	398.5	2440	2410	2330	2253	1449	2393.333	2.802239	6.706692	MDSc, carbonaceous-strongly siliceous, wispy quartz, foliated, thin fractures-healed-weak boudinage	FC
K17-447	399	3980	4160	3800	2051	1325	3980	2.825069	11.24377	MDSc, carbonaceous-siliceous, rare blebby quartz-calcite, weakly foliated-undulated-weak boudinage, thin-micro fractures	FC
K17-447	399.9	3640	3250	3650	1654	1057	3513.333	2.770519	9.733758	MDSc, carbonaceous-quartz-calcite veinlets and calcite bands, wispy po, irregular foliation	FC
K17-447	401	2340	2870	2840	1591	1016	2683.333	2.766957	7.424667	MDSc, carbonaceous-quartz-wispy to patchy calcite, wispy po, foliated, weakly fractured	FC
K17-447	402.3	4980	5000	5850	1611	1039	5276.667	2.816434	14.86138	MDSc, carbonaceous-lesser quartz-wispy to patchy calcite, wispy to blebby po, foliated, healed thin fracture-calcite infill	FC
K17-447	Calibration	2720					2720			Calibration 15:30	
K17-447	403.1	3760	3920	4130	1308	849	3936.667	2.849673	11.21821	MAFt, carbonaceous-sericite-blebby calcite-biotite, weakly foliated, moderately thinly fractured	FC
K17-447	404	5380	5260	5280	1287	833	5306.667	2.834802	15.04335	MAFt, carbonaceous-sericite-biotite, poorly foliated, moderately thinly fractured	FC
K17-447	407.1	3640	2810	2860	1881	1199	3103.333	2.758065	8.559194	MDSc, carbonaceous-siliceous, disseminated biotite, patchy to banded calcite, wispy po, foliated-undulated	FC
K17-447	408	3690	3760	3920	1779	1139	3790	2.779688	10.53502	MDSc, carbonaceous-siliceous, disseminated biotite, blebby to patchy calcite, wispy po. poorly foliated	FC
K17-447	409	3170	3250	3180	1938	1237	3200	2.764622	8.84679	MDSc, carbonaceous-siliceous, disseminated biotite, blebby to patchy calcite, wispy po, foliated	FC
K17-447	410.1	2840	2840	2710	2523	1610	2796.667	2.763417	7.728357	MDSc, carbonaceous-siliceous, disseminated biotite, blebby to patchy calcite, quartz-calcite patches, lithic fragments (calcareous), wispy to blebby po, irregular foliation-chaotic	FC
K17-447	411	2840	2940	2960	1696	1081	2913.333	2.757724	8.034168	MDSc, carbonaceous-siliceous, disseminated biotite, abundant wispy to patchy calcite, wispy po, foliated, thin fracture 20 degrees to core axis	FC
K17-447	412	2960	2640	3140	1323	846	2913.333	2.773585	8.080377	MDSc, carbonaceous-sericite-quartz-wispy to banded calcite-disseminated biotite, wispy po, secondary foliation weakly developed-crenulation cleavage	FC
K17-447	413.2	2070	2820	2860	1472	945	2583.333	2.793169	7.215686	MDSc, carbonaceous-sericite-quartz-wispy to blebby calcite-disseminated biotite, wispy po, secondary foliation weakly developed-undulated-crenulation cleavage poorly developed	FC
K17-447	414	3780	3660	3130	1830	1174	3523.333	2.789634	9.828811	MDSc, carbonaceous-sericite-quartz-wispy to blebby calcite-disseminated biotite, wispy po, well foliated	FC
K17-447	415	3690	3530	4080	1844	1183	3766.667	2.789713	10.50792	MDSc, carbonaceous-sericite-quartz-abundant blebby to banded calcite-disseminated biotite, wispy po, possibly calcareous lithic fragments, secondary foliation poorly developed-crenulated	FC
K17-447	416.2	3570	3210	3420	1388	887	3400	2.770459	9.419561	MDSc, carbonaceous-sericite-quartz-abundant blebby to banded calcite-disseminated biotite, wispy po, possibly calcareous lithic fragments, weakly foliated-locally crenulation cleavage poorly developed, thin healed fracture	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	417	3410	3370	3360	1875	888	3380	1.899696	6.420973	MDSc, moderately carbonaceous-quartz-strong to intense calcite alteration-disseminated biotite, well foliated	FC
K17-447	418.1	3110	3450	3760	1442	921	3440	2.767754	9.521075	MDSc, carbonaceous-lesser quartz-abundant wispy to patchy quartz-calcite crosscutting foliation, wispy po, irregular foliation, poorly developed crenulation cleavage	FC
K17-447	419.2	3150	3170	3420	1965	1255	3246.667	2.767606	8.985493	MDSc, carbonaceous-quartz-wispy quartz-calcite, quartz-calcite veinlets, abundant wispy po, wavy-undulated foliation, poorly developed crenulation cleavage	FC
K17-447	421	3660	3890	3910	1586	1015	3820	2.777583	10.61037	MDSc, carbonaceous-quartz-wispy quartz-calcite, quartz-calcite veinlets, wispy po, wavy-undulated foliation	FC
K17-447	421.8	4350	4300	4010	1497	960	4220	2.787709	11.76413	MDSc, carbonaceous-siliceous-calcareous, abundant wispy to patchy quartz-calcite, wispy po, foliated	FC
K17-447	423	4370	4550	4250	1555	998	4390	2.791741	12.25575	MDSc/MAFta weakly carbonaceous-calcareous-quartz-sericite-lesser chlorite, blebby quartz-calcite crosscutting foliation, poorly foliated-possibly secondary foliation	FC
K17-447	424	3400	3550	3210	2047	1312	3386.667	2.785034	9.431982	MDSc, carbonaceous-calcareous, abundant blebby quartz-calcite, wavy-undulated foliation-secondary foliation locally developed-crenulation cleavage	FC
K17-447	425.1	2730	2770	2440	1795	1145	2646.667	2.761538	7.308872	MDSc, carbonaceous-siliceous, abundant blebby quartz-calcite, wavy-undulated foliation-secondary foliation locally developed-crenulation cleavage	FC
K17-447	426	2680	2690	2770	1416	899	2713.333	2.738878	7.431489	MDSc, carbonaceous-siliceous, wispy quartz-calcite, lithic fragments, wispy po, well foliated, healed fracture-quartz infill-weak boudinage	FC
K17-447	427.3	3250	3030	2550	1339	876	2943.333	2.892009	8.512145	MDSc/MAFt (contact), carbonaceous-siliceous, moderately to strongly calcite altered, wispy po, weakly foliated; mafic tuff: chlorite-biotite porphyroblasts, poorly foliated	FC
K17-447	428.1	5300	5660	5340	1834	1145	5433.333	2.661829	14.4626	MDSc/MAFt (sawtooth contact) carbonaceous, abundant calcite-po patches, foliated; mafic tuff: chlorite-biotite-calcite altered, weakly foliated, weakly marked healed fracture-quartz infill	FC
K17-447	428.9	2830	2840	2750	1495	982	2806.667	2.91423	8.179272	MDSc, carbonaceous-calcareous-sericite-chlorite-lesser quartz-biotite, strongly calcite altered, calcite veinlet, foliated	FC
K17-447	430	5120	4950	5300	2050	1341	5123.333	2.891396	14.81359	MDSc, carbonaceous-calcareous-chlorite-sericite-lesser quartz-biotite, strongly calcite altered, wispy po, foliated-locally deformed-weak secondary foliation	FC
K17-447	431.1	5190	5000	4930	2183	1420	5040	2.861075	14.41982	MAFt, chlorite-calcite-sericite-peppery biotite porphyroblasts, strongly calcite altered, weakly foliated-secondary foliation locally weakly developed	FC
K17-447	432	5490	5730	5660	1780	1141	5626.667	2.785603	15.67366	MAFt, calcite-sericite-peppery biotite porphyroblasts, strong to intense calcite alteration, calcite-quartz bands, foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	433	3670	3700	3790	2153	1398	3720	2.851656	10.60816	MAFt, weakly carbonaceous-chlorite-sericite-calcite veinlet-banded biotite porphyroblasts, abundant wispy po, foliated to banded	FC
K17-447	434.1	3370	3280	3250	1637	1052	3300	2.798291	9.234359	MAFt, weakly carbonaceous-chlorite-sericite-calcite veinlet, abundant wispy po, foliated, healed fracture/discontinuous veinlet crosscutting foliation-quartz-calcite infill	FC
K17-447	435	4840	4690	4340	2306	1496	4623.333	2.846914	13.16223	MAFt, weakly carbonaceous-chlorite-sericite-calcite veinlet set, abundant wispy po associated with calcite, foliated to banded	FC
K17-447	436	4290	4630	4810	1939	1265	4576.667	2.876855	13.1664	MDSc/MAFt, weakly carbonaceous-calcareous-chlorite-sericite-lesser quartz-disseminated biotite, strongly calcite altered, wispy po, foliated-locally deformed	FC
K17-447	437.1	4920	5260	4900	2088	1356	5026.667	2.852459	14.33836	MAFt, poorly carbonaceous-chlorite-sericite-disseminated biotite, quartz-calcite veinlets and blebs, foliated	FC
K17-447	438	4370	4560	4500	2299	1502	4476.667	2.884567	12.91325	MAFt, sericite-chlorite-wispy calcite-peppery biotite-quartz, quartz-calcite patch, foliated	FC
K17-447	439.1	4440	4110	4200	1976	1295	4250	2.901615	12.33186	MAFt, sericite-chlorite-wispy calcite-peppery biotite-quartz, quartz-calcite patch, wispy po, weakly foliated	FC
K17-447	440.1	4100	3910	4240	2281	1476	4083.333	2.83354	11.57029	MAFt, sericite-calcite-chlorite-peppery biotite-quartz, strong calcite alteration, abundant quartz-calcite patch, foliated, weak shearing along the core axis (cm offset)	FC
K17-447	441	3270	2920	3640	2129	1356	3276.667	2.754204	9.02461	MAFt, sericite-calcite-chlorite-peppery biotite-quartz, strong calcite alteration, abundant quartz-calcite patch, crosscutting calcite veinlets, wispy po, foliated, shearing/healed fractures-calcite infill-along the core axis (offset)	FC
K17-447	442	4810	4870	4660	1661	1080	4780	2.858864	13.66537	MAFt, chlorite-calcite-sericite-peppery biotite-quartz, strong calcite alteration, wispy po, foliated	FC
K17-447	443.2	1800	1510	1890	1307	847	1733.333	2.841304	4.924928	MAFt, chlorite-sericite-wispy calcite-peppery biotite-quartz, strong calcite alteration, wispy po, foliated	FC
K17-447	444	4560	4620	4750	2152	1395	4643.333	2.842801	13.20007	MAFt, chlorite-calcite-sericite-peppery biotite-quartz, strong calcite alteration, wispy po, foliated	FC
K17-447	445	4840	4920	5030	2350	1537	4930	2.890529	14.25031	MAFt, chlorite-calcite-sericite-peppery biotite-quartz, strong calcite alteration, wispy po, foliated	FC
K17-447	446.1	3510	3700	3570	1663	1077	3593.333	2.837884	10.19746	MAFt, chlorite-sericite-wispy calcite-peppery biotite-quartz, biotite along the foliation, wispy po, foliated	FC
K17-447	447	5340	5140	5380	1854	1206	5286.667	2.861111	15.12574	MAFt, chlorite-calcite-sericite-peppery biotite-quartz, strong calcite alteration, wispy po, foliated	FC
K17-447	448	5470	5380	5560	2353	1536	5470	2.880049	15.75387	MAFt, chlorite-calcite-sericite-peppery biotite-quartz, strong calcite alteration, wispy po, foliated	FC
K17-447	449.1	4640	4390	4970	1729	1117	4666.667	2.825163	13.1841	MAFt, chlorite-calcite-sericite-peppery biotite-quartz, strong calcite alteration, quartz-calcite veinlet, wispy po, foliated, weakly fractured	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-447	450	5510	5490	5380	1667	1087	5460	2.874138	15.69279	MAFt, chlorite-calcite-sericite-peppery biotite-quartz, strong calcite alteration, wispy po, weakly foliated	FC
K17-447	451	5230	5230	5170	1668	1086	5210	2.865979	14.93175	MAFt, chlorite-calcite-sericite-peppery biotite-quartz, strong calcite alteration, quartz-calcite veinlet, foliated, thin fracture 20 degrees to core axis	FC
K17-447	451.9	4120	4370	4350	1316	865	4280	2.91796	12.48887	MAFt, chlorite-calcite-sericite-peppery biotite-quartz, wispy calcite, biotite along the foliation, contact with carbonaceous mudstone interval, foliated	FC
K17-447	Calibration	2700					2700			Stop 18:00-452.00 m E.O.H.	
K17-449	Calibration	2720					2720				
K17-449	9.1	3250	3330	3280	1884	1207	2590.2	2.782866	7.208178	Chloritic sed w/ calcite veins (MAFt) w fol	FC
K17-449	9.9	3520	3740	3700	1265	806	3653.333	2.755991	10.06855	Chloritic sed w/ calcite veins (MAFt) w fol	FC
K17-449	11.1	3610	3690	3790	1414	904	3696.667	2.772549	10.24919	Chloritic sed w/ minor calcite veins (MAFt) w fol	FC
K17-449	12.1	2890	2740	2740	1372	880	2790	2.788618	7.780244	Chloritic sed qz-ca veins, w fol, (MAFt)	FC
K17-449	14.2	2150	2840	1960	1991	1260	2316.667	2.723666	6.309827	Chloritic sed, minor qz-calcite veins, w fol	FC
K17-449	15.2	3320	3170	3050	2155	1391	3180	2.820681	8.969764	Chloritic sed, qz-ca veins, w fol	FC
K17-449	16.2	3650	4020	3530	1963	1261	3733.333	2.796296	10.43951	Chloritic sed with large (5 cm) qz-ca veins, w fol	FC
K17-449	16.8	2560	2760	2410	1401	899	2576.667	2.790837	7.191056	Light grey-sed, sericite alteration, w fol, diss sulphides	FC
K17-449	18.9	3040	3120	3120	1564	979	3093.333	2.673504	8.27004	Laminated carbonaceous mudstone, irregular fractured ca veins	FC
K17-449	20.2	3230	3090	3250	1259	792	3190	2.695931	8.600021	Laminated carbonaceous mudstone, irregular fractured ca veins (up to 3cm)	FC
K17-449	21.3	3500	3670	3660	1593	1020	3610	2.780105	10.03618	Chloritic fine-grained sed, weak foliation	FC
K17-449	21.9	3530	3660	3590	2183	1403	3593.333	2.798718	10.05673	Chloritic fine-grained sed, weak foliation	FC
K17-449	22.8	3460	4560	3700	1790	1135	3906.667	2.732824	10.67623	Chloritic fine-grained sed contact with massive quartz vein	FC
K17-449	23.8	3330	3390	3290	2088	1342	3336.667	2.798928	9.339088	Chloritic fine-grained sed, w fol, qz-ca blebs	FC
K17-449	25	2510	2490	2480	1262	805	2493.333	2.761488	6.88531	Chloritic fine-grained sed, w fol, qz-ca blebs	FC
K17-449	26.3	4030	3900	4230	2551	1655	4053.333	2.847098	11.54024	Chloritic fine-grained sed, w fol, ca veins	FC
K17-449	31.4	3580	3070	3250	1694	1053	3300	2.642746	8.721061	Massive qz-ca vein, minorly fractured	FC
K17-449	33	4520	4570	4900	1940	1206	4663.333	2.643052	12.32543	Massive qz-ca vein, minorly fractured	FC
K17-449	34.2	2300	2460	2430	1417	893	2396.667	2.704198	6.481062	Carbonaceous mudstone with disseminated pyrite, m fol	FC
K17-449	34.8	2720	2710	2860	2741	1719	2763.333	2.681996	7.411249	Carbonaceous mudstone with disseminated pyrite, m fol	FC
K17-449	36.2	3200	3030	3060	1681	1078	3096.667	2.787728	8.632664	Chloritic fine-grained sed with 3 cm qz-ca veins	FC
K17-449	37.2	2120	2150	1990	1459	936	2086.667	2.789675	5.821122	Laminated mudstone with carbonaceous and CA bands	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	37.9	2800	2790	3110	1323	835	2900	2.711066	7.86209	Contact laminated mudstone & irregular massive qz-ca vein	FC
K17-449	39.2	2160	2400	2400	1555	992	1901.4	2.761989	5.251647	Carbonaceous mudstone with disseminated pyrite, m fol	FC
K17-449	40	2680	2310	2750	1393	883	2580	2.731373	7.046941	Irregular massive qz-ca vein in carbonaceous mudstone	FC
K17-449	41.1	4120	3730	4090	1581	1000	3980	2.72117	10.83026	Irregular massive qz-ca vein in chloritic fine-grained sed	FC
K17-449	42	2670	2530	2590	1198	758	2596.667	2.722727	7.070015	Carbonaceous mudstone with disseminated pyrite, m fol, calcite bands	FC
K17-449	43.2	2500	2390	2420	1549	991	2436.667	2.775986	6.764152	Laminated carbonaceous mudstone, concordant calcite + pyrite bands	FC
K17-449	43.9	3250	3470	3250	2348	1488	3323.333	2.730233	9.073473	Laminated carbonaceous mudstone, concordant calcite + pyrite bands	FC
K17-449	45	3430	2680	2710	2339	1485	2940	2.738876	8.052295	Laminated carbonaceous mudstone, concordant calcite + pyrite bands	FC
K17-449	Calibration	2710					2710			Afternoon, 13:30	
K17-449	45.9	2900	2940	2960	1875	1187	2933.333	2.725291	7.994186	Laminated carbonaceous mudstone, concordant & discordant calcite + pyrite bands	FC
K17-449	47.2	3160	3130	3060	2660	1659	3116.667	2.657343	8.282051	Laminated carbonaceous mudstone, concordant & discordant calcite + pyrite bands	FC
K17-449	48	2940	2790	2910	2245	1430	2880	2.754601	7.933252	Laminated mudstone with abundant irregular qz-ca veining 0.1 to 2 cm	FC
K17-449	49	3950	3520	4150	2384	1515	3873.333	2.743383	10.62604	Laminated mudstone, dominated by irregular qz-ca veining	FC
K17-449	50.1	3760	3760	3500	2011	1282	3673.333	2.758573	10.13316	Laminated mudstone, m fol, < 1 cm calcite bands	FC
K17-449	51	3440	3490	3550	1773	1131	3493.333	2.761682	9.647477	Laminated mudstone, m fol, < 0.5 cm calcite + pyrite bands	FC
K17-449	52.1	3580	3360	3510	1435	914	3483.333	2.754319	9.59421	Laminated mudstone, m fol, < 0.5 cm calcite + pyrite bands	FC
K17-449	53.2	2740	2660	2780	1701	1079	2726.667	2.734727	7.456688	Laminated mudstone, m fol, < 0.5 cm calcite + pyrite bands	FC
K17-449	53.8	2820	2820	2880	1872	1207	2840	2.815038	7.994707	Chloritic fine-grained sed with calcite bands, bed within mudstone	FC
K17-449	55	2700	2840	2860	1861	1188	2800	2.76523	7.742645	Laminated mudstone, m fol, minor calcite banding	FC
K17-449	56.1	2900	3070	3140	1921	1226	3036.667	2.764029	8.393434	Laminated carbonaceous mudstone, m fol, minor calcite banding	FC
K17-449	57.2	3040	3420	2920	1491	955	3126.667	2.781716	8.6975	Laminated mudstone, irregular discordant calcite banding	FC
K17-449	58.1	2880	2830	3020	1424	902	2910	2.727969	7.938391	Black highly carbonaceous mudstone, m fol, diss pyrite	FC
K17-449	58.9	3030	2930	3030	2066	1309	2996.667	2.729194	8.178485	Black highly carbonaceous mudstone, m fol, diss pyrite	FC
K17-449	60	2760	2820	2850	2578	1639	2810	2.745474	7.714782	Laminated mudstone, discordant qz+ca	FC
K17-449	61	2900	2780	2790	1953	1239	2823.333	2.735294	7.722647	Laminated carbonaceous mudstone, m fol, calcite + pyrite banding < 1 cm	FC
K17-449	62.2	3730	3460	3560	1464	921	3583.333	2.696133	9.661142	Laminated carbonaceous mudstone, m fol, calcite + pyrite banding < 1 cm, minor healed fractures	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	63.1	3890	3930	3710	1450	913	3843.333	2.700186	10.37772	Black highly carbonaceous mudstone, m fol, diss pyrite	FC
K17-449	64.1	3790	3840	3390	1137	720	3673.333	2.726619	10.01578	Black highly carbonaceous mudstone, m fol, diss pyrite	FC
K17-449	65.2	3170	3140	3250	1312	826	3186.667	2.699588	8.602689	Black highly carbonaceous mudstone, m fol, irregular qz-ca vein (< 1 cm), diss pyrite	FC
K17-449	66.3	2640	2530	2530	2194	1365	2566.667	2.646562	6.792843	Black highly carbonaceous mudstone, m fol, discordant pyrite + calcite veinlets	FC
K17-449	67.9	2850	2710	2760	1363	880	2773.333	2.821946	7.826197	Laminated mudstone, irregular discordant calcite + pyrite bands	FC
K17-449	69.2	3590	3500	3560	1514	964	3550	2.752727	9.772182	Deformed laminated mudstone with calcite bands up to 1 cm (folded)	FC
K17-449	Calibration	2720					2720			Afternoon, 15:30	
K17-449	70.1	3050	3040	3040	1632	1040	3043.333	2.756757	8.38973	Laminated mudstone with discordant calcite-pyrite veins	FC
K17-449	70.9	3200	3230	3040	1870	1191	3156.667	2.75405	8.693618	Laminated mudstone with discordant calcite-pyrite veins	FC
K17-449	72	2710	2800	2750	2374	1512	2753.333	2.75406	7.582846	Laminated mudstone with deformed calcite bands	FC
K17-449	73.1	3430	3390	3440	1217	777	3420	2.765909	9.459409	Laminated mudstone with deformed calcite bands	FC
K17-449	74.1	3670	3610	3800	1578	1011	2733.8	2.783069	7.608353	Laminated mudstone with deformed calcite bands	FC
K17-449	75	3690	3800	3780	1937	1236	3756.667	2.763195	10.3804	Laminated mudstone with deformed calcite bands	FC
K17-449	75.9	3750	3730	3790	1457	929	3756.667	2.75947	10.36641	Laminated mudstone with deformed calcite bands	FC
K17-449	77.1	3820	3950	3700	1232	790	3823.333	2.78733	10.65689	Laminated mudstone with deformed calcite bands	FC
K17-449	78	4000	4190	4530	1927	1236	4240	2.788712	11.82414	Laminated mudstone with deformed calcite bands	FC
K17-449	79	4520	4500	4500	1857	1191	4506.667	2.788288	12.56589	Laminated mudstone with deformed calcite bands	FC
K17-449	80.1	3440	3600	3550	1301	837	3530	2.803879	9.897694	Laminated mudstone with deformed calcite bands, healed fracture	FC
K17-449	82.2	3550	3560	3780	2376	1523	3630	2.785463	10.11123	Chloritic fine-grained sed, irregular discordant qz-ca veins, biotite	FC
K17-449	83.2	3760	3900	4160	1794	1152	3940	2.794393	11.00991	Chloritic fine-grained sed, large (up to 7 cm) irregular discordant qz-ca veins, biotite	FC
K17-449	84	3960	4010	4050	2075	1361	4006.667	2.906162	11.64402	Deformed chloritic fine-grained sed with biotite fracture infill. Disseminated Pyrrhotite ~2%	FC
K17-449	85	4130	4090	4440	1503	969	4220	2.814607	11.87764	Laminated mudstone with chloritic sed component, m fol, irregular calcite bands	FC
K17-449	86.2	3360	3420	3350	1784	1163	2615.4	2.872786	7.513484	Chloritic fine-grained sed, w fol, calcite blobs	FC
K17-449	86.8	3630	3900	3850	1846	1163	3793.333	2.702782	10.25255	Laminated mudstone with abundant irregular qz-ca veining < 1 cm	FC
K17-449	87.9	3130	3160	3100	2235	1432	3130	2.783313	8.711768	Black high carbonaceous mudstone with silty (med-grey/beige) bed, 1% pyrite, deformed calcite blebs	FC
K17-449	88.9	2270	2870	3070	1545	972	2736.667	2.696335	7.37897	Black high carbonaceous mudstone with silty (med-grey/beige) bed, 1% pyrite, deformed calcite blebs	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	89.9	4500	4310	4790	1779	1159	4533.333	2.869355	13.00774	Chloritic fine-grained sed, w fol, irregular qz-ca veins < 0.5 cm	FC
K17-449	91.1	4070	4260	4200	1304	827	4176.667	2.733753	11.41797	Chloritic fine-grained sed with massive irregular discordant qz-ca vein	FC
K17-449	92.1	4270	4200	4160	1744	1126	4210	2.822006	11.88065	Chloritic fine-grained sed, w fol, minor calcite blobs/crystals < 0.5cm	FC
K17-449	93	4720	4730	4850	1747	1123	4766.667	2.799679	13.34514	Chloritic fine-grained sed, no fol, 3% individual calcite crystals/clasts	FC
K17-449	93.9	4690	4700	4840	1967	1267	4743.333	2.81	13.32877	Chloritic fine-grained sed, no fol, 3% individual calcite crystals/clasts	FC
K17-449	95.1	3130	2550	2550	1390	904	2743.333	2.860082	7.846159	10 cm steep dipping Quartz-Tourmaline-Calcite-Pyrite vein in chloritic sed	FC
K17-449	96.2	3650	3610	3840	1363	870	3700	2.764706	10.22941	Black highly carbonaceous mudstone, deformed with small (< 4 mm) qz-ca veins concordant or discordant with m fol, diss pyrite associated w/ calcite (1% of mode)	FC
K17-449	97.1	4170	4290	4070	1510	939	4176.667	2.644483	11.04513	Black highly carbonaceous mudstone, deformed with small (< 4 mm) qz-ca blebs concordant or discordant with m fol, diss pyrite associated w/ calcite (1% of mode)	FC
K17-449	97.8	4260	4010	4190	1284	803	4153.333	2.669439	11.08707	Black highly carbonaceous mudstone, deformed with small (< 4 mm) qz-ca blebs concordant or discordant with m fol, diss pyrite associated w/ calcite (2% of mode)	FC
K17-449	99.1	4440	4210	4560	2490	1552	4403.333	2.654584	11.68902	Black highly carbonaceous mudstone, m fol with concordant elongated pyrrhotite 2% of mode	FC
K17-449	100	4660	4390	4400	1700	1060	4483.333	2.65625	11.90885	Black highly carbonaceous mudstone, m fol with deformed calcite bands < 4 mm, diss pyrrhotite 1%	FC
K17-449	101.1	3200	3200	2990	1446	923	3130	2.764818	8.653881	Black highly carbonaceous mudstone, m fol with deformed calcite bands < 4 mm, diss pyrrhotite 1%	FC
K17-449	102	3390	3400	3260	2243	1437	3350	2.782878	9.322643	Black highly carbonaceous mudstone, deformed with calcite blebs, pyrrhotite 1%	FC
K17-449	103.1	3050	3070	2910	2040	1295	3010	2.738255	8.242148	Black highly carbonaceous mudstone, deformed with calcite blebs, pyrrhotite 1%	FC
K17-449	103.9	3770	3620	3630	2201	1421	3673.333	2.821795	10.36539	Black highly carbonaceous mudstone, deformed with calcite blebs, pyrrhotite 3%	FC
K17-449	105.1	3390	3420	3420	1463	931	3410	2.75	9.3775	Black highly carbonaceous mudstone, deformed with calcite blebs, pyrrhotite 2%	FC
K17-449	106	3960	3960	3880	1981	1263	3933.333	2.759053	10.85227	Carbonaceous mudstone, irregular calcite bands, pyrrhotite 2%	FC
K17-449	107.2	3300	3360	3300	2555	1623	3320	2.741416	9.101502	Carbonaceous mudstone, irregular calcite bands, pyrrhotite 2%	FC
K17-449	108.2	2130	2360	2330	1537	985	2273.333	2.78442	6.329915	Laminated carbonaceous mudstone, 1 cm qz-ca vein concordant to laminations, steep dipping healed fractures	FC
K17-449	108.9	2630	2630	2760	1531	975	2673.333	2.753597	7.361283	Laminated carbonaceous mudstone with strong calcite banding concordant	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	110	3140	3130	3150	2080	1341	3140	2.814614	8.837889	Black highly carbonaceous mudstone with large irregular & discordant calcite-pyrrhotite (20-80) bands	FC
K17-449	111.3	2350	2500	2350	1729	1101	2400	2.753185	6.607643	Laminated carbonaceous mudstone with deformed calcite banding and disseminated pyrrhotite	FC
K17-449	111.8	2310	2300	2260	1617	1037	2290	2.787931	6.384362	Laminated carbonaceous mudstone with deformed calcite banding and disseminated pyrrhotite, healed fracture	FC
K17-449	112.8	4140	3750	3790	1335	854	3893.333	2.775468	10.80582	Laminated carbonaceous mudstone with concordant calcite+pyrrhotite bands	FC
K17-449	113.8	2990	3270	3300	2082	1347	3186.667	2.832653	9.026721	Chloritic fine-grained sed, no fol, irregular qz-ca veins	FC
K17-449	115.1	3620	3910	3810	1574	1009	3780	2.785841	10.53048	Chloritic sed, cm scale clasts replaced with calcite, biotite 2%, m fol	FC
K17-449	115.7	2960	3210	3030	1614	1032	3066.667	2.773196	8.504467	Chloritic sed, m fol, 1 cm qz-ca veins concordant with foliation	FC
K17-449	117.2	3940	4310	3940	2235	1433	4063.333	2.786783	11.32363	Weakly chloritic fine-grained, deformed with large calcite band (10 cm)	FC
K17-449	118	3300	3470	3190	2414	1547	3320	2.784314	9.243922	Weakly chloritic fine-grained, deformed calcite bands, m fol	FC
K17-449	118.9	3960	4040	3220	1572	1009	3740	2.792185	10.44277	Deformed laminated mudstone with calcite bands up to 2 cm (folded)	FC
K17-449	119.8	3860	3630	3870	2160	1382	3786.667	2.77635	10.51311	Strongly deformed laminated mudstone with concordant and discordant calcite bands/veins	FC
K17-449	121.1	3360	3550	3330	2027	1295	3413.333	2.769126	9.451949	Strongly deformed laminated mudstone with concordant and discordant calcite bands/veins	FC
K17-449	121.8	4300	4340	4480	1663	1068	4373.333	2.794958	12.22328	Laminated mudstone, m fol with calcite bands. Disseminated sulphide 1.5%	FC
K17-449	123	4020	3740	4100	1512	968	3953.333	2.779412	10.98794	Strongly deformed laminated mudstone with concordant and discordant calcite bands/veins	FC
K17-449	124.2	2950	3020	2950	1791	1139	2973.333	2.746933	8.167546	Laminated carbonaceous mudstone with minor deformed calcite banding and disseminated pyrrhotite	FC
K17-449	125.1	4500	4260	4670	1429	911	4476.667	2.758687	12.34972	Black highly carbonaceous mudstone, w fol, diss pyrite 2% & discontinuous deformed calcite bands	FC
K17-449	126.2	4780	4820	4900	2408	1526	4833.333	2.730159	13.19577	Black highly carbonaceous mudstone, w fol, diss pyrite 2% & discontinuous deformed calcite bands	FC
K17-449	127	4370	4350	4560	2229	1421	4426.667	2.758663	12.21168	Deformed carbonaceous mudstone, diss pyrite 1%	FC
K17-449	128.1	4750	4600	4640	1916	1257	4663.333	2.907436	13.55834	Medium grey fine-grained sed with disseminated pyrite 2%, chlorite in matrix/groundmass, weak foliation	FC
K17-449	129	5000	4820	5020	1449	937	4946.667	2.830078	13.99945	Weakly chloritic fine-grained sed with 1 mm biotite + calcite crystals, disseminated pyrite 1%, chlorite in matrix/groundmass, no fol	FC
K17-449	130	5420	5560	5450	1828	1179	5476.667	2.816641	15.4258	Weakly chloritic fine-grained sed with 1 mm biotite + calcite crystals, disseminated pyrite 1%, chlorite in matrix/groundmass, no fol	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	Calibration	2710					2710			End of day, 17:30	
K17-449	Calibration	2680					2680			Start of day, 9:30	
K17-449	131.2	3300	3840	3590	1265	812	3576.667	2.792494	9.987822	Laminated mudstone, calcite bands, concordant pyrite wisps	FC
K17-449	132	3880	3740	3950	1648	1048	3856.667	2.746667	10.59298	Carbonaceous mudstone, discontinuous calcite bands with pyrite	FC
K17-449	133.1	3850	4000	4300	1439	913	4050	2.735741	11.07975	Black carbonaceous mudstone, m fol, deformed, diss pyrite in minor calcite bands	FC
K17-449	134.1	4550	4570	4480	1912	1218	4533.333	2.755043	12.48953	Black carbonaceous mudstone, m fol, deformed, diss pyrite in minor calcite bands	FC
K17-449	134.9	2920	2950	2900	1302	827	2923.333	2.741053	8.013011	Black carbonaceous mudstone, m fol, deformed, diss pyrite in minor calcite bands	FC
K17-449	136.1	2910	2920	2850	1286	818	2893.333	2.747863	7.950484	Black carbonaceous mudstone, m fol, deformed, diss pyrite in minor calcite bands	FC
K17-449	137.1	2760	2750	2700	1504	956	2736.667	2.744526	7.510852	Laminated mudstone, m fol, calcite bands, concordant pyrite wisps	FC
K17-449	138.1	4410	4190	4190	2127	1330	4263.333	2.668758	11.3778	Massive quartz vein	FC
K17-449	139	4810	4040	4600	2544	1631	4483.333	2.786418	12.49244	Indistinguishable unit, large irregular quartz veins mixed with irregular muscovite bands (alteration), no fol	FC
K17-449	140.1	4760	4790	4820	1561	1006	4790	2.812613	13.47241	Strongly foliated chloritic fine-grained sed with calcite and biotite bands, steeply dipping	FC
K17-449	141.2	4850	4460	4130	1731	1124	4480	2.85173	12.77575	Fine grained chloritic unit with large irregular qz-ca-tml veins, no fol	FC
K17-449	141.8	4190	4240	4400	2473	1614	4276.667	2.878929	12.31222	Fine grained chloritic unit with large irregular qz-ca-tml veins, no fol	FC
K17-449	143.1	4440	4250	4600	1815	1159	4430	2.766768	12.25678	Black carbonaceous mudstone, m fol, deformed, diss pyrite	FC
K17-449	144	4600	4630	4730	1930	1238	4653.333	2.789017	12.97823	Black carbonaceous mudstone, large Ca-Po bands, m fol	FC
K17-449	145.2	4370	4570	4400	2380	1531	4446.667	2.803298	12.46533	Carbonaceous mudstone, m fol, deformed & discontinuous calcite bands associated w/ pyrrhotite	FC
K17-449	146.3	4170	4390	3920	1288	823	4160	2.769892	11.52275	Carbonaceous mudstone, m fol, deformed & discontinuous calcite bands associated w/ pyrrhotite	FC
K17-449	147.1	4660	4700	4760	1627	1038	4706.667	2.762309	13.00127	Carbonaceous mudstone, m fol, deformed & discontinuous calcite bands associated w/ pyrrhotite	FC
K17-449	148.1	4460	4300	4530	2404	1530	4430	2.750572	12.18503	Laminated carbonaceous mudstone, abundant calcite veining/banding, m fol, deformed	FC
K17-449	149.1	4630	4370	4600	1696	1080	4533.333	2.753247	12.48139	Laminated mudstone, m fol, calcite banding	FC
K17-449	150	3750	4310	3800	1962	1253	3953.333	2.767278	10.93997	Laminated mudstone, m fol, calcite bands, deformed calcite veins	FC
K17-449	152.9	4200	4210	4130	1763	1126	4180	2.767661	11.56882	Chloritic sed, 1 mm biotite crystals 5%, minor discontinuous calcite bands, w fol	FC
K17-449	154.1	3500	4300	3560	2192	1422	3786.667	2.846753	10.77971	Chloritic sed with irregular qz-ca veins, w fol	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	155.9	2880	2870	2780	1546	977	2843.333	2.717047	7.725472	Laminated carbonaceous mudstone with calcite banding, concordant qz-ca vein, m fol, diss. Pyrrhotite	FC
K17-449	157	4410	4400	4250	1491	940	4353.333	2.705989	11.78007	Laminated carbonaceous mudstone with calcite banding, m fol, diss. Pyrrhotite	FC
K17-449	159.1	2430	2840	2530	1194	751	2600	2.69526	7.007675	Laminated carbonaceous mudstone with calcite banding, concordant qz-ca vein, minor deformation, w fol, diss. Pyrrhotite	FC
K17-449	160.1	3430	3240	3390	1824	1150	3353.333	2.706231	9.074896	Laminated carbonaceous mudstone with calcite banding, concordant qz-ca vein, minor deformation, w fol, diss. Pyrrhotite	FC
K17-449	160.9	2650	2630	2920	1863	1174	2733.333	2.703919	7.390711	Laminated carbonaceous mudstone with calcite banding, deformation, w fol, diss. Pyrrhotite, fracture along core axis	FC
K17-449	161.7	2740	2730	2950	1393	882	2806.667	2.726027	7.65105	Carbonaceous laminated mudstone irregular calcite + pyrite bands concordant, m fol	FC
K17-449	163	2960	2960	3050	1596	1008	2990	2.714286	8.115714	Carbonaceous laminated mudstone irregular calcite + pyrite bands concordant, m fol	FC
K17-449	163.8	2840	2640	2960	1358	863	2813.333	2.743434	7.718195	Laminated mudstone with 3-5 cm chloritic fine-grained beds. Fractured along core axis. Banded calcite + pyrite	FC
K17-449	165	2590	2570	2590	1447	923	2583.333	2.76145	7.133747	Carbonaceous mudstone with irregular calcite bands, deformed, m fol, diss pyrite	FC
K17-449	166	2560	2570	2870	1788	1139	2666.667	2.755008	7.346687	Carbonaceous mudstone with irregular calcite bands, deformed, m fol, diss pyrite	FC
K17-449	166.7	3820	3760	3700	1988	1276	3760	2.792135	10.49843	Chloritic fine-grained sed, deformed, calcite bands, speckled biotite 2%	FC
K17-449	167.8	3930	3880	3910	3010	1943	3906.667	2.820993	11.02068	Chloritic fine-grained sed, m fol with calcite bands and biotite 2%	FC
K17-449	169.1	3520	3150	3170	1810	1149	3280	2.738275	8.981543	Laminated carbonaceous mudstone, concordant 2 mm calcite bands concordant or discordant, m fol	FC
K17-449	169.9	4040	3890	3880	1340	850	3936.667	2.734694	10.76558	Laminated carbonaceous mudstone, minor calcite banding concordant, no deformation, m fol	FC
K17-449	171	4320	4520	4240	2436	1553	4360	2.758777	12.02827	Laminated carbonaceous mudstone, minor calcite qz-ca veining discordant, contains pyrite (1%), no deformation, w fol	FC
K17-449	172	4290	4260	4120	2036	1307	4223.333	2.792867	11.79521	Laminated mudstone, discordant qz-ca veining (< 5 mm), m fol	FC
K17-449	173.2	3270	3530	3500	1188	756	3433.333	2.75	9.441667	Laminated mudstone, discordant qz-ca veining (< 5 mm), deformed	FC
K17-449	173.9	3990	3750	3650	1227	782	3796.667	2.757303	10.46856	Mudstone with 4 mm silty beds (banded appearance) evenly spaced (5-10mm) concordant. M fol	FC
K17-449	175.2	2810	2500	2150	1247	794	2486.667	2.752759	6.845195	Mudstone with calcite bands 0.5 to 5 cm concordant with m fol	FC
K17-449	176.1	4200	4230	4120	1316	848	4183.333	2.811966	11.76339	Mudstone with concordant silty beds (banded appearance), m fol	FC
K17-449	176.9	4370	3980	3450	1802	1155	3933.333	2.785162	10.95497	Laminated mudstone, discontinuous calcite bands and pyrrhotite bands. M fol	FC
K17-449	178.1	3280	3450	3550	1393	901	3426.667	2.831301	9.701924	Fine grained chloritic unit with large irregular qz-ca-tml veins, no fol, 2% biotite	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	179.1	2760	3140	3120	1618	1028	3006.667	2.742373	8.245401	Mudstone with concordant silty beds (banded appearance), banded calcite < 3 mm, m fol	FC
K17-449	180.1	3560	4240	3920	1723	1100	3906.667	2.76565	10.80447	Mudstone with concordant silty beds (banded) 0.5 to 2 cm	FC
K17-449	180.9	4670	4970	4590	1454	931	4743.333	2.780115	13.18701	Mudstone with concordant silty beds (banded) 0.5 to 2 cm, discordant qz-ca veinlets	FC
K17-449	182.1	3240	3340	3310	1227	785	3296.667	2.776018	9.151606	Mudstone with concordant silty beds, concordant calcite bands	FC
K17-449	183.1	4160	3700	3920	1933	1237	3926.667	2.777299	10.90553	Mudstone with concordant silty beds, discordant calcite bands	FC
K17-449	184.2	4780	4670	4790	2601	1668	4746.667	2.787781	13.23267	Deformed mudstone with silty beds and folded qz-ca veins & veinlets	FC
K17-449	185.1	4700	5230	4930	1899	1220	4953.333	2.79676	13.85328	Laminated carbonaceous mudstone with minorly deformed calcite-pyrite bands	FC
K17-449	186.1	4240	4020	4240	1507	970	4166.667	2.806331	11.69305	Chloritic fine-grained sed, no fol, 1 mm calcite crystals 10%	FC
K17-449	187	3250	3580	3960	1524	981	3596.667	2.80663	10.09451	Chloritic fine-grained sed, irregular qz-ca veins, no fol	FC
K17-449	188.9	2750	2960	2910	1389	886	2873.333	2.761431	7.934513	Laminated mudstone, concordant & deformed qz-ca veins and ca banding, m fol	FC
K17-449	189.8	4500	4460	4560	1385	904	4506.667	2.879418	12.97658	Laminated mudstone, m fol, 1 mm calcite crystals overprinting 6% of the mode	FC
K17-449	Calibration	2700					2700			12:00	
K17-449	Calibration	2720					2720			13:00	
K17-449	191.4	3920	3960	3570	1965	1263	3816.667	2.799145	10.6834	Chloritic fine-grained sed, w fol, deformed qz-ca vein 1 cm	FC
K17-449	192.2	4080	4170	4080	1761	1135	4110	2.813099	11.56184	Chloritic pale green fine-grained sed, calcite banding concordant to m fol, biotite	FC
K17-449	193.2	4870	4760	4820	2041	1319	4816.667	2.82687	13.61609	Chloritic pale green fine-grained sed, calcite banding concordant to m fol, biotite	FC
K17-449	194.1	4100	4020	4040	1631	1051	4053.333	2.812069	11.39825	Laminated mudstone with calcite banding, discordant qz-ca veins, m fol	FC
K17-449	194.9	3790	3740	3770	1675	1083	3766.667	2.829392	10.65738	Weakly chloritic fine-grained sed, m fol, 1 mm biotite 1%, irregular & discordant qz-ca veins/veinlets	FC
K17-449	196.9	3400	3700	3700	1397	914	3600	2.89234	10.41242	Chloritic fine-grained sed, qz-ca vein 6 cm, biotite crystals	FC
K17-449	198.3	3360	3570	3320	1513	966	3416.667	2.765996	9.450488	Laminated carbonaceous mudstone with concordant calcite bands	FC
K17-449	198.8	3570	3750	3550	2122	1369	3623.333	2.818061	10.21077	Laminated carbonaceous mudstone with chloritic silty beds containing pyrite	FC
K17-449	199.9	3700	3840	3610	1932	1247	3716.667	2.820438	10.48263	Laminated carbonaceous mudstone with chloritic silty beds containing pyrite	FC
K17-449	201.1	3830	3840	3780	1601	1046	3816.667	2.884685	11.00988	Chloritic fine-grained sed with 4 cm mudstone bed. Biotite overprint 2%	FC
K17-449	203.4	4120	4410	4420	1851	1208	4316.667	2.878694	12.42636	Laminated silty-mudstone, w fol, elongated pyrite blebs	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	204.1	3430	3360	3560	2010	1284	3450	2.768595	9.551653	Chloritic sed with large calcite band (10 cm) and fractures filled by sulphides.	FC
K17-449	204.9	2670	3110	2710	1869	1194	2830	2.768889	7.835956	Chloritic fine-grained sed with 1 mm calcite and qz-ca veins, no fol	FC
K17-449	206.1	3070	2910	3240	1449	947	3073.333	2.886454	8.871036	Deformed laminated mudstone with folded calcite bands and qz-ca veins	FC
K17-449	207.1	4090	3410	4130	2288	1464	3876.667	2.776699	10.76434	Laminated mudstone with abundant calcite in bands and in matrix, minor deformation, m fol	FC
K17-449	207.8	3270	3510	3040	1700	1094	3273.333	2.805281	9.182618	Laminated mudstone with abundant calcite in bands and in matrix, minor deformation, m fol	FC
K17-449	209.8	3150	3140	3130	2546	1640	3140	2.810155	8.823885	Laminated mudstone with silty beds, equivalent size to mud beds (~1 cm)	FC
K17-449	211.3	3250	3010	3190	1357	872	3150	2.797938	8.813505	Chloritic fine-grained sed, no fol, qz-ca veins in various orientations	FC
K17-449	211.9	2920	3250	2880	1318	854	3016.667	2.840517	8.568894	Laminated mudstone with silty beds, discordant qz-ca veins < 5 mm	FC
K17-449	213.1	3710	3460	3040	1524	986	3403.333	2.832714	9.640669	Laminated mudstone, calcite bands containing biotite crystals	FC
K17-449	213.8	3310	4160	3150	1591	1031	3540	2.841071	10.05739	Laminated mudstone, calcite bands containing biotite crystals	FC
K17-449	214.8	4400	4110	4660	1944	1262	4390	2.85044	12.51343	Laminated mudstone, calcite bands containing biotite crystals	FC
K17-449	216	3720	4350	3690	1565	1021	3920	2.876838	11.27721	Chloritic fine-grained sed interbedded with mudstone, discordant qz-ca veins up to 3 cm	FC
K17-449	217.2	3820	3330	3940	1372	900	3696.667	2.90678	10.7454	Chloritic fine-grained sed, w fol, biotite, qz-calcite veins < 5mm	FC
K17-449	218.1	4190	3610	3850	1953	1262	3883.333	2.826339	10.97562	Banded chloritic fine-grained sed and mudstone with minor calcite banding & discordant (high angle) qz-ca veins	FC
K17-449	219.1	4010	4210	4310	2325	1512	4176.667	2.859779	11.94434	Intermixed chloritic sed (predominant) with mudstone, irregular discordant qz-ca veins	FC
K17-449	222	5050	5210	4950	2089	1360	5070	2.865569	14.52844	Chloritic fine-grained sed, w fol with off-setted qz-ca veins. Biotite porphyroblasts up to 3 mm 10%	FC
K17-449	223	4410	4420	4290	1518	987	4373.333	2.858757	12.5023	Chloritic fine-grained sed, w fol with off-setted qz-ca veins. Biotite porphyroblasts up to 3 mm 5%	FC
K17-449	224.8	4180	4250	4250	2130	1364	4226.667	2.780679	11.753	Chloritic fine-grained sed, irregular qz-ca veins, biotite porphyroblasts 2 mm 5%	FC
K17-449	226.8	3900	3820	3870	2707	1771	3863.333	2.892094	11.17312	Structureless chloritic unit, mafic intrusion potentially?	FC
K17-449	228	4190	4450	4460	2759	1792	4366.667	2.853154	12.45877	Chloritic fine-grained/aphanitic unit with ~20% biotite, structureless	FC
K17-449	228.9	4370	4490	4720	1421	930	4526.667	2.894094	13.1006	Chloritic fine-grained/aphanitic unit with ~15% biotite, structureless	FC
K17-449	229.8	4600	4620	4720	1219	797	4646.667	2.888626	13.42248	Chloritic fine-grained/aphanitic unit with ~15% biotite, structureless	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	231.1	4300	3740	3840	1568	1014	3960	2.830325	11.20809	Chloritic fine-grained/aphanitic unit with ~15% biotite, no fol, healed fracture along core axis	FC
K17-449	232	4480	4530	4490	2144	1396	4500	2.86631	12.8984	Chloritic fine-grained/aphanitic unit with ~15% biotite, structureless	FC
K17-449	233.2	5050	5070	5020	1792	1163	5046.667	2.848967	14.37778	Chloritic fine-grained/aphanitic unit with ~20% biotite, unorientated ca veins < 5mm	FC
K17-449	237.3	2310	2530	2350	1862	1208	2396.667	2.847095	6.823537	Fine-grained sed, light brown-med grey colour, qz-ca veins concordant to w fol, fracture-filled pyrite crosscutting fol	FC
K17-449	238	4630	4980	4840	1418	894	4816.667	2.706107	13.03441	Laminated carbonaceous mudstone with banded ca and biotite	FC
K17-449	239.2	3940	3340	3940	1891	1193	3740	2.709169	10.13229	Laminated carbonaceous mudstone, deformed with calcite in matrix	FC
K17-449	Calibration	2710					2710			End of day, 14:30	
K17-449	Calibration	2700					2700			16:00	
K17-449	241.2	5020	3790	4300	1755	1094	4370	2.655068	11.60265	Silicified mudstone, fractured, one cm discordant wavy quartz vein	FC
K17-449	242.6	4840	5380	5600	2253	1430	5273.333	2.737546	14.43599	Quartz-calcite vein, weakly fractured, mudstone hosted containing pyrrhotite	FC
K17-449	243.1	2340	2250	2570	1678	1087	2386.667	2.839255	6.776356	Graphitic mudstone-tourmaline rich, well foliated,, pyrrhotite along the foliation (5%)	FC
K17-449	243.9	2850	2750	2330	1975	1253	2643.333	2.735457	7.230725	Graphitic mudstone-tourmaline rich, well foliated, wispy calcite along the foliation and quartz blebs, trace po disseminated	FC
K17-449	246.3	3300	3740	3430	2224	1419	3490	2.762733	9.641938	Carbonaceous mudstone-tourmaline rich, well foliated, wispy calcite along the foliation, weakly fractured	FC
K17-449	247	4010	3510	3740	1955	1253	3753.333	2.7849	10.45266	Carbonaceous mudstone, possibly containing tourmaline, py disseminated, foliated, locally folded	FC
K17-449	248.2	4140	3330	3150	1523	969	3540	2.749097	9.731805	Carbonaceous mudstone containing tourmaline, foliated, trace pyrite	FC
K17-449	249.2	4600	4950	4790	2855	1770	4780	2.631336	12.57779	Graphitic mudstone, quartz-calcite patches containing pyrite, tourmaline vein, fold nose, weakly fractured	FC
K17-449	250	2320	1690	2250	1439	892	2086.667	2.630713	5.489421	quartz-calcite vein, strongly fractured, mudstone hosted,	FC
K17-449	250.7	2650	2540	2540	1352	863	2576.667	2.764826	7.124035	Graphitic mudstone, well foliated, wispy calcite, biotite porphyroblasts,	FC
K17-449	252.2	4890	5000	3770	1313	850	4553.333	2.835853	12.91258	Silicified mudstone, fractured, quartz-calcite veinlet,, weakly foliated	FC
K17-449	252.8	4350	3690	3620	1519	942	3886.667	2.632582	10.23197	Calcite-quartz-biotite, well foliated, calcite veining, carbonate replacing porphyry ?	FC
K17-449	253.7	2870	2610	2980	1405	870	2820	2.626168	7.405794	Silica rich mudstone, quartz-biotite-strongly fractured (spider wed texture), quartz vein/pods, py trace in fracture	FC
K17-449	255.3	3530	2900	3220	2588	1603	3216.667	2.627411	8.451506	Strongly silicified mudstone, intense fracturation, calcite in fracture, quartz vein envelop	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	256.2	4120	4350	4290	2349	1450	4253.333	2.612903	11.11355	Brecciated quartz-calcite vein, silicified mudstone clasts, intense fracturation, clasts from 0.5 cm to 4 cm	FC
K17-449	261.2	2680	2960	2020	1352	849	2553.333	2.687873	6.863035	Strongly graphitic mudstone, quartz-calcite clasts and wispy, weakly foliated, pyrite blebs, thin fracture along the core axis	FC
K17-449	262	2890	2920	2980	2109	1330	2930	2.707317	7.932439	Graphitic mudstone, silica rich, disseminated and wispy pyrite, trace calcite, foliated	FC
K17-449	263.1	3690	3550	3600	1913	1204	3613.333	2.698166	9.749375	Graphitic mudstone, silica rich, disseminated and wispy pyrrhotite, weakly foliated locally crenulated	FC
K17-449	264	2930	2950	2950	2519	1596	2943.333	2.729144	8.032781	Graphitic mudstone, silica rich, abundant patchy and wispy pyrrhotite, disseminated pyrite, poorly foliated-deformed, , quartz blebs	FC
K17-449	265	2970	3070	3020	2586	1641	3020	2.736508	8.264254	Graphitic mudstone, silica rich, abundant pyrrhotite in deformed quartz veinlet, poorly foliated-deformed, late fine grain pyrite veinlet along the foliation	FC
K17-449	265.8	4460	4290	4350	1612	1017	4366.667	2.709244	11.83036	Graphitic mudstone, silica rich, abundant disseminated and wispy pyrrhotite associated with calcite-quartz veining, fine grain pyrite veinlet along the core axis, deformed thin foliation	FC
K17-449	267	4200	4000	3980	2112	1332	4060	2.707692	10.99323	Graphitic mudstone, silica rich, abundant pyrrhotite associated with calcite-biotite porphyroblasts patches, well foliated, wispy calcite along the foliation	FC
K17-449	268.2	2740	2820	2970	2374	1503	2843.333	2.725603	7.749797	Graphitic mudstone, silica rich, blebby disseminated pyrrhotite, wispy-weakly folded quartz-calcite, poorly foliated	FC
K17-449	268.8	3410	3500	3230	1920	1213	3380	2.7157	9.179066	Graphitic mudstone, silica rich, tourmaline-biotite, blebby disseminated pyrrhotite, wispy-weakly folded quartz-calcite, poorly foliated	FC
K17-449	270	4820	4750	4840	2146	1358	4803.333	2.72335	13.08116	Graphitic mudstone, silica rich, biotite, blebby disseminated pyrrhotite, poorly foliated	FC
K17-449	271.1	4410	4120	4460	2106	1336	4330	2.735065	11.84283	Graphitic mudstone, silica rich, biotite, blebby disseminated pyrrhotite, poorly foliated-weakly deformed	FC
K17-449	272.1	4370	3990	4040	1690	1069	4133.333	2.721417	11.24852	Graphitic mudstone, silica rich, biotite, blebby disseminated pyrrhotite, poorly foliated-weakly deformed	FC
K17-449	272.9	4040	4010	3550	2746	1740	3866.667	2.729622	10.55454	Graphitic mudstone, silica rich, biotite, blebby disseminated pyrrhotite, poorly foliated-weakly deformed and deformed quartz veinlets (locally crenulated foliation)	FC
K17-449	274	3430	3450	3250	1459	922	3376.667	2.716946	9.174221	Graphitic mudstone, silica rich, biotite, blebby disseminated pyrrhotite, poorly foliated-weakly deformed and deformed quartz veinlets (locally crenulated foliation)	FC
K17-449	274.9	3330	3620	3570	1252	792	3506.667	2.721739	9.544232	Silicified carbonaceous mudstone, silica banded, trace wispy calcite, patchy fine grained pyrrhotite	FC
K17-449	276	4870	4790	4560	1892	1186	4740	2.679887	12.70266	Massive bull quartz vein, fractured along core axis, glassy, pyrrhotite patch at contact with silicified,-silica-tourmaline banded mudstone	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	277	5140	5260	5300	2383	1504	5233.333	2.711035	14.18775	Massive bull quartz vein, gassy, fractured (calcite infill), chlorite-biotite porphyroblasts inclusion, pyrrhotite patch at contact	FC
K17-449	277.8	4450	4230	4670	1628	1040	4450	2.768707	12.32075	Massive quartz-calcite vein-pod, chlorite-sericite-fine grained biotite schist hosted, biotite porphyroblasts,	FC
K17-449	Calibration	2700					2700			End of day, 18:00	
K17-449	Calibration	2700					2700			10:30	
K17-449	279	5050	5020	4930	1720	1135	5000	2.940171	14.70085	Fine grained chlorite-calcite-fine grained biotite, rare biotite porphyroblasts; pyrrhotite veinlets-wispy associated with quartz-calcite	FC
K17-449	280	4810	4550	4460	1829	1185	4606.667	2.840062	13.08322	Fine grained chlorite-biotite-calcite (wispy and disseminated), pyrite patches-disseminated pyrrhotite, biotite veinlet and biotite porphyroblasts	FC
K17-449	281.1	4620	4660	4700	1339	850	3233.8	2.738241	8.854925	Calcite-quartz vein, chlorite inclusion, biotite in selvage, pyrrhotite patch	FC
K17-449	282	4370	4080	4180	1892	1232	4210	2.866667	12.06867	Fine grained chlorite, quartz-calcite pods-biotite in selvage, patchy chlorite alteration, pyrrhotite patch associated with calcite	FC
K17-449	283	4400	4110	4170	2495	1601	4226.667	2.790828	11.7959	Chlorite-sericite (?)-calcite-quartz flooded sediments, biotite trains, dirty tourmaline veinlet. Possibly metasomatic alteration	FC
K17-449	283.9	4290	4210	4290	1708	1101	4263.333	2.813839	11.99633	Altered chloritic sediment, sericite-biotite, quartz-calcite flooded, wispy wavy calcite, trace pyrite	FC
K17-449	285	4590	4340	4260	1421	931	4396.667	2.9	12.75033	Foliated chlorite-sericite (?)-biotite schist, patchy and wispy calcite, wispy pyrrhotite along the foliation	FC
K17-449	285.9	4530	4420	4340	2019	1328	4430	2.921852	12.94381	Foliated to banded chlorite, calcite-biotite-sericite (?), disseminated pyrrhotite	FC
K17-449	287.1	4820	4790	4760	1841	1210	3484.2	2.917591	10.16547	Weakly foliated chlorite-calcite-biotite schist, abundant pyrrhotite disseminated	FC
K17-449	288	4780	4820	4870	2251	1450	4823.333	2.810237	13.55471	Chlorite-sericite-quartz-biotite-calcite, poorly foliated, abundant pyrrhotite disseminated	FC
K17-449	289.1	4850	4900	5100	1969	1263	4950	2.788952	13.80531	Chlorite-sericite-quartz-biotite, patchy calcite, trace pyrrhotite	FC
K17-449	289.8	4640	4820	4700	1903	1214	4720	2.761974	13.03652	Graphitic mudstone, siliceous, tourmaline (alteration?), biotite-quartz-calcite, wavy-crenulated foliation, pyrrhotite patches	FC
K17-449	291	3340	3360	3250	1620	1024	3316.667	2.718121	9.015101	Poorly foliated graphitic mudstone, quartz-biotite-calcite; wispy disseminated pyrite-pyrrhotite	FC
K17-449	292	3690	3770	3740	2554	1617	3733.333	2.72572	10.17602	carbonaceous-graphitic mudstone, quartz-biotite-rare calcite, wispy pyrrhotite, poorly foliated	FC
K17-449	293.1	4600	4500	4180	2601	1644	4426.667	2.717868	12.0311	Carbonaceous mudstone, siliceous, biotite-wavy calcite bands, abundant disseminated -wispy pyrrhotite	FC
K17-449	294	4210	3850	3810	1831	1157	3956.667	2.716617	10.74875	Foliated graphitic-siliceous mudstone, tourmaline (alteration?), wispy foliaform calcite, trace pyrrhotite, biotite porphyroblasts	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	295	4860	4660	4780	2359	1500	4766.667	2.746217	13.0903	Graphitic mudstone, siliceous, tourmaline (alteration?), biotite-quartz-calcite (wavy bands associated with pyrrhotite, poorly foliated	FC
K17-449	296.1	4100	3750	3580	1716	1127	3810	2.913413	11.1001	Foliated graphitic mudstone, biotite-calcite-tourmaline (?), foliated, abundant disseminated to wispy pyrrhotite	FC
K17-449	297.1	4310	4550	4490	2070	1327	4450	2.786003	12.39771	Foliated graphitic mudstone, biotite-calcite-tourmaline (?), foliated, abundant disseminated to wispy pyrrhotite	FC
K17-449	298	4460	4350	4520	1991	1277	4443.333	2.788515	12.3903	Foliated graphitic mudstone, biotite-calcite, biotite porphyroblasts, foliated, abundant disseminated pyrrhotite	FC
K17-449	299.1	4810	4810	4760	1812	1165	4793.333	2.800618	13.4243	Foliated graphitic mudstone, biotite-lesser quartz, rare calcite and ankerite specks, biotite porphyroblasts, abundant patchy pyrrhotite	FC
K17-449	300.2	4460	4200	4400	2268	1463	4353.333	2.817391	12.26504	Poorly foliated graphitic mudstone, biotite-quartz-rare calcite, biotite porphyroblasts, abundant patchy pyrrhotite, fine grained pyrite veinlet crosscutting foliation	FC
K17-449	301	5080	5140	5190	2807	1802	5136.667	2.793035	14.34689	Poorly foliated graphitic siliceous mudstone, biotite-quartz-biotite porphyroblasts, abundant patchy pyrrhotite, fine grained pyrite veinlet crosscutting foliation, fracture coating associated with calcite	FC
K17-449	302.1	4210	4490	4590	1321	852	4430	2.816631	12.47768	Poorly foliated graphitic siliceous mudstone, biotite-quartz-biotite porphyroblasts, abundant patchy pyrrhotite	FC
K17-449	303.4	4340	4600	4460	1315	818	4466.667	2.645875	11.81824	Poorly sorted clastic-brecciated or porphyritic, sericite-quartz-feldspar (?), biotite porphyroblasts, weakly fractured, heterogeneous; py disseminated pyrite	FC
K17-449	304	5230	5360	5380	1858	1176	5323.333	2.72434	14.50257	Quartz-sericite-lesser chlorite, poorly foliated, biotite porphyroblasts, disseminated pyrrhotite	FC
K17-449	Calibration	2720								12:20	
K17-449	Calibration	2710					2710			13:16	
K17-449	305.1	3550	4310	4420	1864	1220	4093.333	2.89441	11.84778	Chlorite-calcite-biotite-mica, calcite late ankerite, patches and blebs, poorly foliated	FC
K17-449	306	4120	4460	4160	1525	1000	4246.667	2.904762	12.33556	Chlorite-calcite-biotite-mica, calcite late ankerite, patches and blebs, poorly foliated	FC
K17-449	307.3	4560	4620	4810	2792	1833	4663.333	2.911366	13.57667	Chlorite-calcite-biotite-mica, calcite late ankerite, patches and blebs, poorly foliated	FC
K17-449	308.1	4410	4560	4700	2240	1457	4556.667	2.860792	13.03567	Chloritic carbonaceous mudstone, wispy calcite-lesser quartz, foliated to banded, biotite porphyroblasts	FC
K17-449	309	5080	5100	5120	2754	1789	5100	2.853886	14.55482	Interbedded chloritic siltstone and carbonaceous mudstone, calcite blebs and patches, wispy pyrrhotite within the carbonaceous beds	FC
K17-449	309.9	5020	5020	4980	2906	1877	5006.667	2.824101	14.13933	Interbedded chloritic siltstone and carbonaceous mudstone, calcite blebs and patches, wispy pyrrhotite within the carbonaceous beds	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	312	3980	3660	3890	2362	1542	3843.333	2.880488	11.07067	Carbonaceous siltstone, sericite-chlorite-biotite, patchy calcite, weakly foliated, pyrrhotite disseminated	FC
K17-449	313	3710	3460	3540	1915	1247	3570	2.866766	10.23436	chloritic siltstone, calcite banded, biotite porphyroblasts, possibly ankerite, foliated to banded, abundant calcite	FC
K17-449	314.4	3380	3920	3680	1938	1230	3660	2.737288	10.01847	Bleached, altered chloritic siltstone, silica flooded, quartz-calcite spiderweb veinlets, trace pyrite, fracture cm offset	FC
K17-449	315	2340	1820	2210	1718	1104	2123.333	2.798046	5.941183	Chlorite-calcite-biotite-mica, calcite, patches and blebs, poorly foliated; wispy pyrite and fine grain pyrite in thin veinlets crosscutting foliation	FC
K17-449	316.9	4300	4300	4480	1829	1173	4360	2.78811	12.15616	Carbonaceous mudstone, siliceous, (silica flooded, biotite-quartz, possibly feldspar, wispy pyrrhotite, trace chalcopyrite	FC
K17-449	318	4050	3960	4000	1389	909	4003.333	2.89375	11.58465	Interbedded chloritic and carbonaceous mudstone, wispy quartz-calcite bands, pyrrhotite disseminated, well foliated	FC
K17-449	319	4750	4570	4720	3036	1987	4680	2.894185	13.54479	Chloritic and carbonaceous mudstone, quartz-calcite bands, abundant disseminated pyrrhotite, fine grained pyrite veinlets, biotite porphyroblasts trains	FC
K17-449	319.8	3610	3930	4040	1434	936	3860	2.879518	11.11494	Foliated carbonaceous and chloritic mudstone, wispy pyrite-pyrrhotite	FC
K17-449	320.9	3210	3480	3330	1430	914	3340	2.771318	9.256202	Well foliated carbonaceous and chloritic mudstone, calcite banded	FC
K17-449	322	4730	4670	4750	2576	1677	4716.667	2.865406	13.51516	Well foliated carbonaceous and chloritic mudstone, calcite banded, late biotite veinlets	FC
K17-449	323.1	4270	4120	4320	2618	1703	4236.667	2.861202	12.12196	Well foliated carbonaceous and chloritic mudstone, calcite banded, late biotite veinlets, wispy pyrrhotite, trace chalcopyrite	FC
K17-449	324	2910	2800	3050	2105	1369	2920	2.860054	8.351359	Well foliated carbonaceous and chloritic mudstone, calcite banded, late fine grained pyrite veinlets	FC
K17-449	324.8	3610	3500	3400	1460	955	3503.333	2.891089	10.12845	Foliated carbonaceous and chloritic mudstone, calcite banded, wispy pyrrhotite, trace chalcopyrite	FC
K17-449	325.9	3280	3370	3360	1996	1276	3336.667	2.772222	9.249981	Foliated carbonaceous and chloritic mudstone, calcite banded offsetting the dominant foliation, wispy pyrrhotite, trace chalcopyrite	FC
K17-449	327	2770	3010	2850	1593	1016	2876.667	2.760832	7.941993	Graphitic mudstone, strongly calcite-quartz banded, pyrrhotite patch, late veinlet pyrite infill	FC
K17-449	327.9	3740	3260	3230	1404	897	3410	2.769231	9.443077	Graphitic mudstone, calcite-quartz banded, biotite within the foliation, abundant pyrrhotite, wispy pyrite	FC
K17-449	328.7	3250	3220	3530	1969	1291	3333.333	2.90413	9.680433	Graphitic mudstone, calcite-quartz banded, biotite within the foliation, abundant pyrrhotite, wispy pyrite, trace chalcopyrite	FC
K17-449	330.2	3420	3750	3490	1691	1073	3553.333	2.736246	9.722794	Carbonaceous mudstone, weakly foliation, biotite-chlorite, wispy pyrrhotite	FC
K17-449	331.2	3650	4000	3690	2152	1371	3780	2.755442	10.41557	Carbonaceous mudstone, weakly chloritic, wispy calcite banded, foliated, weakly crenulated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	331.9	3850	3590	3730	2048	1303	3723.333	2.748993	10.23542	Carbonaceous mudstone, foliated, wispy calcite, calcite veinlet crosscutting the foliation, trace pyrite	FC
K17-449	333	3810	4000	3880	1531	972	3896.667	2.738819	10.67227	Carbonaceous mudstone, foliated, wispy calcite, trace pyrite	FC
K17-449	334	4440	4530	4750	2570	1641	4573.333	2.766416	12.65174	Carbonaceous mudstone, well foliated, wispy calcite, wispy pyrrhotite and pyrite along the foliation	FC
K17-449	335.1	4290	3990	3870	1794	1134	4050	2.718182	11.00864	Massive calcite-quartz vein carbonaceous mudstone hosted	FC
K17-449	336	3930	4140	4240	1392	900	4103.333	2.829268	11.60943	Carbonaceous mudstone, quartz-calcite blebs ad pods, deformed foliation, wispy to patchy pyrrhotite, chalcopyrite trace	FC
K17-449	337	4840	4790	4480	2366	1518	4703.333	2.790094	13.12274	Carbonaceous mudstone, poorly foliated, abundant wispy to patchy pyrrhotite, weakly chloritic	FC
K17-449	338.1	4450	4720	4760	2744	1759	4643.333	2.785787	12.93534	Carbonaceous mudstone, poorly foliated abundant wispy pyrrhotite, wavy quartz blebs, chalcopyrite trace	FC
K17-449	339	4660	4050	4160	3160	2017	4290	2.764654	11.86037	Quartz-calcite pod mineralized pyrrhotite (patch) carbonaceous mudstone hosted, deformed foliation, abundant pyrrhotite, chalcopyrite trace	FC
K17-449	340	3360	4020	3590	1552	997	3656.667	2.796396	10.22549	Carbonaceous mudstone, sericite-biotite-graphite, biotite porphyroblasts, quartz-calcite vein, biotite in selvage, disseminated pyrrhotite	FC
K17-449	341.1	3590	3420	3820	1196	752	3610	2.693694	9.724234	Massive calcite-quartz vein, large chlorite inclusion. Wispy pyrrhotite, chalcopyrite. Trace biotite.	FC
K17-449	342	3690	3820	4030	1566	1003	3846.667	2.781528	10.69961	Chloritic mudstone, well foliated, common wispy pyrrhotite along foliation. Abundant biotite porphyroblasts. Wispy calcite.	FC
K17-449	343	3300	3920	4020	2234	1431	3746.667	2.782067	10.42348	Chloritic, calcific mudstone, well foliated. Patchy to wispy pyrrhotite. Abundant biotite porphyroblasts.	FC
K17-449	343.9	2590	2560	2820	1283	815	2656.667	2.741453	7.283127	Calcitic mudstone, well foliated. Trace pyrrhotite. Chlorite alteration. Abundant biotite porphyroblasts.	FC
K17-449	344.7	3490	4020	4070	1747	1121	3860	2.790735	10.77224	Heavily chloritized mudstone. Trace wispy pyrrhotite calcite. Rare fine grained pyrite. Moderate biotite porphyroblasts	FC
K17-449	346.8	2640	2570	2510	1458	926	2573.333	2.740602	7.052481	Blebby calcite, heavy chlorite alteration. Well foliated. Trace pyrrhotite. Abundant biotite porphyroblasts.	FC
K17-449	348	3410	3460	3150	1302	827	3340	2.741053	9.155116	Blebby calcite, heavy chlorite alteration. Moderate foliation. Trace wispy pyrrhotite, chalcopyrite.	FC
K17-449	348.7	2050	2080	2150	1091	693	2093.333	2.741206	5.738258	Blebby calcite, heavy chlorite alteration. Moderate foliation. Abundant patchy and wispy pyrrhotite.	FC
K17-449	350.1	3330	3060	3200	1244	795	3196.667	2.770601	8.856689	Foliated chlorite, with calcite occurring in fractures and veins. Trace wispy pyrrhotite and biotite.	FC
K17-449	352.1	4840	5050	4950	2316	1506	4946.667	2.859259	14.1438	Foliated carbonaceous chlorite. Blebby texture. Trace pyrrhotite, biotite.	FC
K17-449	353.1	4370	4850	4920	2156	1402	4713.333	2.859416	13.47738	Blebby calcite, heavy chlorite alteration. Moderate foliation. Crosscutting calcite veins.	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	354	3560	3980	4350	2099	1354	3963.333	2.81745	11.16649	Blebby calcite, heavily chloritized. Fine grained pyrrhotite, biotite along grain boundaries. Larger, crosscutting calcite veins.	FC
K17-449	355.3	4310	4190	4260	2208	1414	4253.333	2.780856	11.82791	Predominantly chlorite with blebby calcite throughout. Fine grained qtz associated with calcite. Fine grained pyrrhotite, biotite along grain boundaries.	FC
K17-449	356.1	4490	4920	4640	1753	1120	4683.333	2.769352	12.9698	Blebby calcite, heavily chloritized, . Moderate foliation. Abundant fine grained pyrrhotite, biotite along grain boundaries.. Trace fine grained pyrite and chalcopyrite.	FC
K17-449	357.1	5030	5000	5560	2857	1856	5196.667	2.854146	14.83204	Chlorite with blebby calcite and fine grained qtz throughout. Moderate foliation. Trace chalcopyrite. Abundant fine grained pyrrhotite, biotite.	FC
K17-449	358.1	4420	5190	4340	2843	1833	4650	2.814851	13.08906	Fine grain chlorite with biotite porphyroblasts. Calcite in matrix. Late crosscutting calcite pyrite vein.	FC
K17-449	359.3	4000	4020	3650	2762	1779	3890	2.809766	10.92999	Chlorite-biotite-calcite-lesser quartz SED, po disseminated, qtz-calcite veinlets, weakly foliated	FC
K17-449	360	2510	2600	2550	1929	1245	2553.333	2.820175	7.200848	Chlorite-biotite-calcite-lesser quartz SED, po disseminated, qtz-calcite blebs, weakly foliated	FC
K17-449	361	3570	3590	4480	1797	1161	3880	2.825472	10.96283	Chlorite-biotite-calcite-lesser quartz SED, po disseminated, qtz-calcite veinlet and bands, weakly foliated	FC
K17-449	362.1	3700	3250	3670	1311	847	3540	2.825431	10.00203	Chlorite-biotite-calcite-lesser quartz SED, po disseminated, qtz-calcite veinlet and bands, foliated, thin py veinlet crosscutting foliation	FC
K17-449	363	3610	3670	3510	1955	1247	3596.667	2.761299	9.931474	Sericite-chlorite--biotite-calcite SED, wispy calcite and biotite veinlet, well foliated	FC
K17-449	363.9	3770	4120	3940	2200	1412	3943.333	2.791878	11.00931	Sericite-chlorite--biotite-calcite SED, 2 foliations observed, wispy calcite and biotite veinlet, well foliated	FC
K17-449	365.1	3920	4320	3930	2587	1620	4056.667	2.675284	10.85274	Massive quartz vein, chloritic inclusion, fractured, calcite infill, clastic or porphyritic rhyolite hosted RHY, massive	FC
K17-449	365.9	3420	3020	3300	1932	1206	3246.667	2.661157	8.63989	Sericite-quartz-feldspar porphyry RHYcf, medium strained, foliated, poorly sorted, tourmaline crosscutting vein, quartz vein along the core axis, fractured and weakly sheared	FC
K17-449	367	4900	4530	4850	1519	969	4760	2.761818	13.14625	Sericite-quartz-feldspar porphyry RHYcf at contact with chlorite-biotite SED, foliated, weakly fractured	FC
K17-449	368.1	4530	4370	4700	1912	1252	4533.333	2.89697	13.13293	Chlorite-biotite-calcite-lesser quartz SED, po disseminated, qtz-calcite veinlet and bands, foliated	FC
K17-449	369.1	4040	4040	4360	2014	1316	4146.667	2.885387	11.96474	Chlorite-biotite-calcite-lesser quartz SED, po disseminated, qtz-calcite veinlet and bands, foliated	FC
K17-449	370	4080	3910	3640	1664	1067	3876.667	2.78727	10.80532	Sericite-chlorite--biotite-quartz-lesser calcite SED, wispy calcite and disseminated biotite porphyroblasts, foliated	FC
K17-449	371.1	3350	3020	3040	2552	1637	3136.667	2.789071	8.748386	Sericite--biotite-quartz-lesser calcite-chlorite SED, wispy calcite and disseminated biotite porphyroblasts, late pyrite veinlet crosscutting foliation, micro fractures calcite infill, foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	372	2730	2120	2630	1297	835	2493.333	2.807359	6.999683	Sericite--biotite-quartz-calcite-lesser chlorite SED, wispy calcite and disseminated biotite porphyroblasts, wispy laminated po, secondary foliation	FC
K17-449	372.8	3280	3870	3830	2495	1598	3660	2.781494	10.18027	Sericite--biotite-quartz-calcite-lesser chlorite SED, wispy calcite and disseminated biotite porphyroblasts, wispy laminated po, fractured, weakly foliated	FC
K17-449	374.1	3150	3330	3350	1894	1187	3276.667	2.678925	8.777944	Quartz-sericite porphyritic or clastic RHY, strongly fractured, locally talc infill, py crosscutting veinlet and in fracture, wispy py-po, foliated	FC
K17-449	375	3160	3250	3220	1895	1191	3210	2.691761	8.640554	Quartz-sericite-feldspar porphyry RHYcf, medium strained, strongly fractured, py crosscutting veinlet and in fracture, wispy py-po, well foliated	FC
K17-449	375.9	3410	3900	4440	2180	1381	3916.667	2.728411	10.68627	Quartz-sericite-feldspar porphyry RHYcf, medium strained, poorly sorted, strongly fractured, late py veinlet and in fracture and tourmaline veinlet with envelop crosscutting foliation, well foliated	FC
K17-449	377.1	3980	3420	3640	1371	884	3680	2.815195	10.35992	Biotite calcite banded PEL or mafic dyke, well foliated	FC
K17-449	378	3690	3590	3600	2097	1365	3626.667	2.864754	10.38951	Chlorite-calcite-biotite SED, wispy to banded calcite, foliated	FC
K17-449	379.1	4020	4750	4400	1808	1186	4390	2.906752	12.76064	Chlorite-sericite-calcite-biotite SED, wispy to patchy calcite, wispy po, weakly foliated	FC
K17-449	380.1	4600	4140	4160	1547	1014	4300	2.902439	12.48049	Chlorite-sericite-calcite-biotite SED, wispy calcite, wispy po, weakly foliated	FC
K17-449	382	3580	4080	4360	1422	932	4006.667	2.902041	11.62751	Chlorite-sericite-biotite-lesser calcite SED, quartz-possibly potassium rich feldspar bands, wispy po, foliated	FC
K17-449	382.9	4500	4200	4480	1485	968	4393.333	2.87234	12.61915	Chlorite-sericite-biotite SED, quartz-possibly potassium rich feldspar bands, wispy po, foliated	FC
K17-449	384	4400	4020	4400	2271	1484	4273.333	2.885642	12.33131	Chlorite-sericite-biotite SED, quartz-possibly potassium rich feldspar bands, calcite bands, wispy po, foliated	FC
K17-449	Calibration	2710							0	18:00	
K17-449	Calibration	2730							0	9:30	
K17-449	385.1	3450	3320	3420	2132	1391	3396.667	2.877193	9.772865	Chlorite-sericite-calcite-biotite SED, wispy po, qtz. py stringers, foliated	FC
K17-449	386.1	1940	2040	2220	1297	837	2066.667	2.819565	5.827101	Chlorite-sericite-calcite-qtz-biotite-py SED, wispy po, moderate foliation, open fracture	FC
K17-449	387.1	2980	2420	2710	1515	976	2703.333	2.810761	7.598423	Chlorite-calcite-quartz-biotite SED, wispy po, trace py, weak foliation	FC
K17-449	388	2680	2060	2630	1852	1203	2456.667	2.853621	7.010395	Chlorite-calcite-quartz-biotite SED, wispy po, trace py, weak foliation, trace healed fractures	FC
K17-449	389.1	2430	2330	2460	2576	1667	2406.667	2.833883	6.820213	Chlorite-sericite-calcite-quartz-biotite. SED. Trace po, py. Moderate foliation.	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	390	1630	1650	1630	1137	741	1636.667	2.871212	4.699217	Chlorite-sericite-calcite-quartz-biotite. SED. Trace po, py. Moderate foliation.	FC
K17-449	391.1	3090	2870	2420	1646	1079	2793.333	2.902998	8.109042	Chlorite-sericite-calcite-quartz-biotite. SED. Trace po, py. Moderate foliation. Late py veinlet	FC
K17-449	393	3700	3550	3780	1779	1149	3676.667	2.82381	10.38221	Chlorite-sericite-calcite-quartz-biotite. SED. Trace po, py. Weak foliation. Abundant bt.	FC
K17-449	394	4200	4520	3780	1848	1232	4166.667	3	12.5	Massive fine grained chlorite, moderate bt, trace po, py.	FC
K17-449	395.1	2390	2210	1500	1334	856	2033.333	2.790795	5.674616	Chlorite-sericite-calcite-quartz-biotite. SED. Trace po, py. Weak foliation. Abundant bt.	FC
K17-449	396.1	4570	3900	3380	1399	929	3950	2.976596	11.75755	Chlorite-sericite-biotite. SED. Po, py stringers. Weak foliation. Abundant bt.	FC
K17-449	396.8	4230	3860	3890	2024	1342	3993.333	2.967742	11.85118	Chlorite-sericite-calcite-quartz-biotite. SED. Trace po, py. Moderate foliation.	FC
K17-449	399.3	2980	2990	2950	1694	1057	2973.333	2.659341	7.907106	Feldspar-quartz-sericite-biotite. RHYcf. Poor foliation.	FC
K17-449	400	3130	3150	3110	2011	1258	3130	2.670651	8.359137	Feldspar-quartz-sericite-biotite. RHYcf. Poor foliation.	FC
K17-449	401.1	4390	4080	4360	1451	940	4276.667	2.83953	12.14372	Chlorite-sericite-calcite-quartz-biotite. SED. Trace po, py. Moderate foliation.	FC
K17-449	402.1	3580	3550	3720	2041	1329	3616.667	2.866573	10.36744	Chlorite-sericite-calcite-quartz-biotite. SED. Trace po, py. Moderate foliation.	FC
K17-449	402.8	3680	3730	3760	1698	1064	3723.333	2.678233	9.971956	Chlorite-sericite-calcite-quartz-biotite. SED. Trace po, py. Moderate foliation.	FC
K17-449	403.8	3620	3790	3690	2038	1304	3700	2.776567	10.2733	Chlorite-sericite-calcite-quartz-biotite. SED. Moderate foliation.	FC
K17-449	405	2860	3110	2840	1824	1184	2936.667	2.85	8.3695	Chlorite-sericite-quartz-biotite. SED. Trace po. Moderate foliation. Large calcite vein	FC
K17-449	406	4310	4320	4320	2117	1178	4316.667	2.254526	9.732038	Chlorite-sericite-quartz-biotite. SED. Trace po. Moderate foliation. Calcite veins	FC
K17-449	408	2820	2900	2860	2076	1306	2860	2.696104	7.710857	Feldspar-quartz-sericite-biotite. RHYcf. Poor foliation. Trace py	FC
K17-449	409	3330	3390	3330	1848	1160	3350	2.686047	8.998256	Feldspar-quartz-sericite-biotite. RHYcf. Poor foliation. Trace py + po	FC
K17-449	409.8	3690	3390	3690	2258	1417	3590	2.684899	9.638787	Feldspar-quartz-sericite-biotite. RHYcf. Poor foliation. Trace py	FC
K17-449	411	3770	3550	4720	1691	1069	4013.333	2.71865	10.91085	Feldspar-quartz-sericite-biotite-epidote. RHYcf. Poor foliation. Trace py. Calcite veining	FC
K17-449	412	3060	3020	3500	1250	790	3193.333	2.717391	8.677536	Feldspar-quartz-sericite-biotite-epidote. RHYcf. Poor foliation. Trace po	FC
K17-449	413.1	3340	2870	3940	1395	885	3383.333	2.735294	9.254412	Feldspar-quartz-sericite-biotite-epidote. RHYcf. Poor foliation. Trace po	FC
K17-449	416.2	5050	5150	5230	1588	1029	5143.333	2.840787	14.61112	Chlorite-sericite-quartz-biotite. SED. Trace po. Moderate foliation. Calcite veins	FC
K17-449	417.3	3960	3940	4050	1627	1050	3983.333	2.819757	11.23203	Chlorite-sericite-quartz-biotite. SED. Trace wispy po. Moderate foliation. Calcite veins	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	417.8	4390	4250	4350	2106	1359	4330	2.819277	12.20747	Chlorite-sericite-quartz-biotite-calcite. SED. Trace po. Strong foliation. Calcite veins	FC
K17-449	419.1	4050	3380	4320	1542	996	3916.667	2.824176	11.06136	Chlorite-sericite-quartz-biotite. SED. Trace po. strong foliation. Higher strain	FC
K17-449	419.9	2850	2640	2920	1230	784	2803.333	2.757848	7.731166	Chlorite-sericite-quartz-biotite. SED. Trace po. Moderate foliation. Calcite veins	FC
K17-449	420.9	5260	5240	5230	1953	1275	5243.333	2.880531	15.10358	Chlorite-sericite-quartz-biotite. SED. Trace po. Moderate foliation. Minor calcite veins	FC
K17-449	422.2	2810	2980	3070	2489	1606	2953.333	2.8188	8.324855	Chlorite-sericite-quartz-biotite. SED. Trace po, py. Moderate foliation. Abundant calcite veins. Contact b/t two facies	FC
K17-449	422.8	3410	3040	3080	1811	1166	3176.667	2.807752	8.919292	Chlorite-sericite-quartz-biotite. SED. Trace po. Moderate foliation. Abundant calcite/py veinlets.	FC
K17-449	423.9	3510	3740	3570	2332	1529	3606.667	2.90411	10.47416	Chlorite-sericite-quartz-biotite. SED. Trace po. Moderate foliation. Abundant calcite/py veinlets.	FC
K17-449	425.2	4300	4040	3610	1561	1017	3983.333	2.869485	11.43012	Chlorite-sericite-quartz-biotite. SED. Trace po. Strong foliation. Abundant calcite veinlets	FC
K17-449	427	4400	4410	4420	2953	1935	4410	2.900786	12.79247	Chlorite-sericite-quartz-biotite. SED. Trace po, py. Moderate foliation. Abundant calcite veinlets	FC
K17-449	427.8	4400	4390	4420	2258	1471	4403.333	2.869123	12.63371	Chlorite-sericite-quartz-biotite. SED. Trace po, py. Moderate foliation. Abundant calcite veinlets	FC
K17-449	429	4350	4570	4600	2592	1687	4506.667	2.864088	12.90749	Chlorite-sericite-quartz-biotite. SED. Trace po, py. Moderate foliation. Abundant calcite veinlets	FC
K17-449	429.9	3600	4040	3620	2348	1523	3753.333	2.846061	10.68221	Chlorite-sericite-quartz-biotite. SED. Trace po, py. Moderate foliation. Abundant calcite veinlets	FC
K17-449	432	3870	3950	3870	1453	954	3896.667	2.911824	11.34641	Chlorite-sericite-quartz-biotite. SED. Trace wispy po. Moderate foliation. Abundant calcite veinlets	FC
K17-449	433	4600	4620	4590	1796	1181	4603.333	2.920325	13.44323	Chlorite-sericite-quartz-biotite-pyrrhotite. SED. Moderate foliation. Rare calcite veinlets	FC
K17-449	433.7	5030	5100	5080	2611	1688	5070	2.828819	14.34211	Chlorite-sericite-quartz-biotite. SED. Moderate foliation. Abundant calcite veinlets	FC
K17-449	435	4100	4030	4040	1815	1187	4056.667	2.890127	11.72428	Chlorite-sericite-quartz-biotite-pyrrhotite. SED. Moderate foliation. Rare calcite veinlets	FC
K17-449	436.1	4190	4210	3990	1907	1236	4130	2.842027	11.73757	Chlorite-sericite-quartz-biotite-pyrrhotite-py. SED. Moderate foliation. Calcite veinlets	FC
K17-449	437.2	3100	3310	3280	1787	1156	3230	2.832013	9.147401	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. SED. Moderate foliation. Calcite veinlets	FC
K17-449	438.1	3550	3130	3490	2474	1626	3390	2.917453	9.890165	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. SED. Moderate foliation. Calcite veinlets	FC
K17-449	439	3700	3300	3490	2591	1703	3496.667	2.917793	10.20255	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. SED. Moderate foliation. Calcite veinlets	FC
K17-449	439.8	3980	4020	4000	1762	1153	4000	2.893268	11.57307	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. SED. Moderate foliation. Calcite veinlets	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	440.9	4410	4350	4350	2139	1380	4370	2.818182	12.31545	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. SED. Moderate foliation. Calcite veinlets	FC
K17-449	442	4250	3790	4190	2395	1546	4076.667	2.820966	11.50014	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. SED. Moderate foliation. Calcite veinlets	FC
K17-449	442.7	3940	3750	3940	1641	1063	3876.667	2.8391	11.00625	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. SED. Moderate foliation. Calcite veinlets	FC
K17-449	444.1	2790	3420	2670	1632	1056	2960	2.833333	8.386667	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. SED. Moderate foliation. Calcite veinlets	FC
K17-449	445.4	3120	2890	3030	1452	944	3013.333	2.858268	8.612913	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Large, cross cutting calcite veinlets	FC
K17-449	446.2	4260	3500	4350	2709	1722	4036.667	2.744681	11.07936	MAFi, abundant calcite veins, moderate healed fractured, infilled with py, cal. No foliation	FC
K17-449	447.3	3020	3360	3380	2060	1307	3253.333	2.735724	8.900221	MAFi, abundant calcite veins, moderate healed fractured, infilled with py, cal. No foliation	FC
K17-449	448	3970	2950	3960	1504	956	3626.667	2.744526	9.953479	MAFi, abundant calcite veins, moderate healed fractured, infilled with py, cal. No foliation	FC
K17-449	449.1	4310	3650	4350	1536	974	4103.333	2.733096	11.2148	MAFi, abundant calcite veins, moderate healed fractured, infilled with py, cal. No foliation	FC
K17-449	450	2950	3170	3120	2415	1540	3080	2.76	8.5008	MAFi, abundant calcite veins, moderate healed fractured, infilled with py, cal. No foliation	FC
K17-449	451	3280	3250	3330	1937	1223	3286.667	2.712885	8.916349	MAFi, abundant calcite veins, moderate healed fractured, infilled with py, cal. No foliation	FC
K17-449	452.1	3080	3620	3190	2227	1417	3296.667	2.749383	9.063798	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Abundant cross cutting calcite + py veinlets	FC
K17-449	453	2900	3040	2940	1900	1215	2960	2.773723	8.210219	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Abundant cross cutting calcite + py veinlets	FC
K17-449	454	2620	2780	2630	2307	1466	2676.667	2.743163	7.342533	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Abundant cross cutting calcite + py veinlets	FC
K17-449	455.5	3280	3210	3420	1806	1153	3303.333	2.765697	9.136018	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	456	2820	2210	2710	1244	796	2580	2.776786	7.164107	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	457	4720	4760	4660	1846	1185	4713.333	2.792738	13.16311	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	458.1	4160	4000	4080	2208	1405	4080	2.749689	11.21873	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	459.1	4110	4300	4210	1538	988	4206.667	2.796364	11.76337	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	460	4080	4240	3790	1552	988	4036.667	2.751773	11.10799	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	460.8	4520	4480	4530	2252	1457	4510	2.832704	12.7755	Chlorite-amphibole-sericite-quartz-biotite. weak foliation. Trace py+po. Large cross cutting calcite veins. Half weak, half moderate foliation	FC
K17-449	462.2	3280	2980	3260	1655	1069	3173.333	2.824232	8.96223	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. Moderate foliation. Po is abundent	FC
K17-449	463	3460	3410	3600	1429	923	3490	2.824111	9.856146	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	463.9	2970	2990	2960	1660	1072	2973.333	2.823129	8.394104	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	465.1	3270	3090	3300	2665	1739	3220	2.87797	9.267063	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	466	4290	4350	4260	1595	1045	4300	2.9	12.47	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	466.8	3910	3850	4100	1688	1110	3953.333	2.920415	11.54537	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	468	2660	2980	3140	2258	1462	2926.667	2.836683	8.302027	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. moderate foliation. Moderate cross cutting calcite	FC
K17-449	469.1	3980	3640	3810	1946	1260	3810	2.836735	10.80796	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. Strong foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	470.1	3910	3730	3890	1914	1272	3843.333	2.981308	11.45816	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite-calcite. weak foliation.	FC
K17-449	471	5640	5450	5580	2275	1529	5556.667	3.049598	16.9456	Chlorite-sericite-calcite-quartz-biotite-pyrite. weak foliation. Abundant py, trace po	FC
K17-449	472.2	4240	4320	3840	1473	965	4133.333	2.899606	11.98504	Chlorite-sericite-quartz-biotite-pyrite. weak foliation. More qtz + bt,less chl. Abundant py	FC
K17-449	473.3	4700	5000	4950	2001	1328	4883.333	2.973254	14.51939	Chlorite-sericite-quartz-biotite-pyrite. weak foliation. More qtz + bt,less chl. Several crosscutting veins	FC
K17-449	474	5240	4730	5300	1923	1280	5090	2.990669	15.2225	Chlorite-sericite-quartz-biotite-pyrite. weak foliation. More qtz + bt,less chl. Abundant py. Several calcite veins	FC
K17-449	475	4890	5030	4890	2197	1451	4936.667	2.94504	14.53868	Chlorite-sericite-quartz-biotite-pyrite. moderate foliation. Abundant py and po.	FC
K17-449	475.9	5190	5380	5030	1709	1068	5200	2.666147	13.86396	Qtz and calcite vein	FC
K17-449	477.1	4900	4980	4930	2081	1376	4936.667	2.951773	14.57192	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite + py veinlets	FC
K17-449	478	4390	4000	4480	1517	1003	4290	2.951362	12.66134	Chlorite-sericite-quartz-biotite-pyrrhotite-pyrite. weak foliation. Moderate cross cutting calcite veinlets	FC
K17-449	479.1	3830	3760	3850	2387	1574	3813.333	2.936039	11.1961	Chlorite-sericite-quartz-biotite. weak foliation. Trace py, po	FC
K17-449	480	3710	3890	3830	1835	1216	3810	2.964459	11.29459	Chlorite-sericite-quartz-biotite. weak foliation. Trace py, po. Crosscutting qtz veinlets	FC
K17-449	481	3500	3220	3220	1555	1030	3313.333	2.961905	9.813778	Chlorite-sericite-quartz-biotite. weak foliation. Trace py, po. Crosscutting cal veinlets	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	482.1	3450	3450	3520	1806	1192	3473.333	2.941368	10.21635	Chlorite-sericite-quartz-biotite. weak foliation. Trace py, po. Crosscutting cal veinlets	FC
K17-449	483	3780	3960	3590	1558	1022	3776.667	2.906716	10.9777	Chlorite-sericite-quartz-biotite. weak foliation. Trace py, po. Crosscutting cal veinlets. Calcite in mtrx	FC
K17-449	483.8	2500	2940	2730	1551	1028	2723.333	2.965583	8.076272	Chlorite-sericite-quartz-calcite-biotite. weak foliation. Trace py, po. Large crosscutting chloritic mud veins	FC
K17-449	485.1	4370	3680	3960	1750	1155	4003.333	2.941176	11.77451	Chlorite-sericite-quartz-biotite+. weak foliation. Trace py, po. Calcite in mtrx. Cross curring calcite vein. Quartz occurs as blades	FC
K17-449	485.9	3180	3270	3540	2218	1467	3330	2.953395	9.834807	Chlorite-sericite-quartz-biotite+. weak foliation. Trace py, po. Calcite in mtrx. Cross curring calcite vein. Quartz occurs as blades	FC
K17-449	487	4090	4140	4040	2086	1377	4090	2.942172	12.03348	Chlorite-sericite-quartz-biotite-pyrite. moderate foliation. Abundant py and po.	FC
K17-449	487.9	5430	5300	5470	2441	1593	5400	2.878538	15.5441	Chlorite-sericite-quartz-biotite-pyrite-pyrrhotite. moderate foliation. Abundent crosscutting calcite veinlets	FC
K17-449	489	4160	4040	3790	2221	1437	3996.667	2.832908	11.32219	Chlorite-sericite-quartz-biotite-pyrite-pyrrhotite. moderate foliation. Abundent crosscutting calcite veinlets	FC
K17-449	491.1	2590	2090	2540	1458	949	2406.667	2.86444	6.893752	Chlorite-sericite-quartz-biotite-pyrite-pyrrhotite. moderate foliation. Abundent crosscutting calcite + py veinlets	FC
K17-449	492.7	4700	4240	4750	2010	1281	4563.333	2.757202	12.58203	Quartz-chlorite-sericite-biotite-pyrite-pyrrhotite. Strong foliation. More qtz, less chl then other samples	FC
K17-449	495.1	4490	4550	4810	1296	820	4616.667	2.722689	12.56975	Quartz-chlorite-sericite-biotite-calcite-pyrite-pyrrhotite. Strong foliation. More qtz, less chl then other samples	FC
K17-449	496	5400	5210	5450	2520	1606	5353.333	2.757112	14.75974	Quartz-feldspar-chlorite-sericite-biotite-calcite-pyrite-pyrrhotite. moderate foliation.	FC
K17-449	497.1	5640	5790	5860	1565	1032	5763.333	2.93621	16.92236	Chlorite-quartz-sericite-biotite-pyrite-pyrrhotite. moderate foliation. Abundent crosscutting calcite + bt +py veins	FC
K17-449	497.9	3740	4210	3840	2426	1587	3930	2.891538	11.36374	Chlorite-quartz-sericite-biotite-pyrite-pyrrhotite. Poor foliation. V. large fractures, infilled with cal, and bt along boundary	FC
K17-449	498.9	4160	4570	4320	1680	1115	4350	2.973451	12.93451	Chlorite-quartz-sericite-biotite-pyrite-pyrrhotite. Well foliated, unfractured	FC
K17-449	500.1	3810	3810	3810	2617	1722	3810	2.924022	11.14053	Chlorite-quartz-sericite-biotite-pyrite-pyrrhotite. Well foliated, crosscutting calcite veins	FC
K17-449	501.1	5600	5340	5380	1991	1317	5440	2.954006	16.06979	Chlorite-quartz-sericite-biotite-calcite-pyrite-pyrrhotite. Well foliated. Abundant blebby calcite	FC
K17-449	502	3630	3240	3650	1616	1027	3506.667	2.743633	9.621007	Quartz-chlorite-sericite-calcite-biotite-pyrite-pyrrhotite. Strong foliation. More qtz, less chl then other samples.	FC
K17-449	503.1	3860	3820	3870	1811	1149	3850	2.73565	10.53225	Quartz-chlorite-sericite-calcite-biotite-pyrite-pyrrhotite. Strong foliation.	FC
K17-449	504.1	1220	1220	1270	1597	1020	1236.667	2.767764	3.422802	Quartz-chlorite-sericite-calcite-biotite-pyrite-pyrrhotite. Strong foliation. Highly fractured	FC
K17-449	505.3	2800	2570	2770	1583	1013	2713.333	2.777193	7.53545	Quartz-chlorite-sericite-calcite-epidote-biotite-pyrite-pyrrhotite. Strong foliation. Several open fractures.	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	506.3	5190	5080	5080	2287	1475	5116.667	2.816502	14.4111	Chlorite-quartz-sericite-biotite-calcite-pyrite-pyrrhotite. Moderate foliation	FC
K17-449	507.2	3840	4290	3880	1502	969	4003.333	2.818011	11.28144	Chlorite-quartz-sericite-biotite-calcite-pyrite-pyrrhotite. Moderate foliation	FC
K17-449	508.5	3780	3680	3620	1592	1029	3693.333	2.827709	10.44367	Chlorite-quartz-sericite-biotite-calcite-pyrite-pyrrhotite. Moderate foliation. Several calcite veins	FC
K17-449	509.1	4500	4480	4690	1870	1232	4556.667	2.931034	13.35575	Quartz-feldspar-chlorite-sericite-calcite-biotite-pyrite-pyrrhotite. Strong foliation.	FC
K17-449	510.2	2210	2310	2170	2705	1767	2230	2.883795	6.430864	Quartz-Kspar-chlorite-sericite-calcite-biotite-pyrite-pyrrhotite. Strong foliation.	FC
K17-449	511	2930	3110	2880	2891	1906	2973.333	2.935025	8.726809	Quartz-Kspar-chlorite-sericite-calcite-biotite-pyrite-pyrrhotite. Strong foliation.	FC
K17-449	512.1	3690	2980	3970	1637	1084	3546.667	2.960217	10.4989	Quartz-Kspar-chlorite-sericite-calcite-biotite-pyrite-pyrrhotite. Strong foliation.	FC
K17-449	513.2	2990	4520	2480	1950	1263	3330	2.838428	9.451965	Chlorite-quartz-sericite-biotite-calcite-pyrite-pyrrhotite. Moderate foliation. Heavily altered, heavily fractured	FC
K17-449	514	3210	3180	2720	2357	1538	3036.667	2.8779	8.739223	Chlorite-quartz-sericite-biotite-calcite-pyrite-pyrrhotite. Moderate foliation	FC
K17-449	515.1	4160	4080	4200	1466	964	4146.667	2.920319	12.10959	Chlorite-quartz-sericite-biotite-epidote-calcite-pyrite-pyrrhotite. Moderate foliation	FC
K17-449	516	3410	4480	3570	2251	1430	3820	2.741778	10.47359	Quartz-chlorite-sericite-biotite-calcite-pyrite-pyrrhotite. Moderate foliation	FC
K17-449	517	2720	2690	2790	1342	846	2733.333	2.705645	7.39543	Chlorite-epidote-quartz-sericite-calcite-biotite. Trace py, po. Moderate folaition. Calcite veins	FC
K17-449	518	3280	3020	3270	2208	1395	3190	2.715867	8.663616	Quartz-epidote-chlorite-sericite-biotite-calcite. Trace py, po. Moderate foliaion. Abundant healed calcite fractures	FC
K17-449	519.3	2590	2530	2600	1312	829	2573.333	2.716356	6.99009	Quartz-epidote-chlorite-biotite-sericite-calcite-pyrrohite. Trace py. Moderate foliaion. Abundant healed calcite fractures	FC
K17-449	520	4340	4310	4360	1919	1263	4336.667	2.925305	12.68607	Quartz-epidote-chlorite-biotite-sericite-amphiole-calcite-pyrrohite. Trace py. Moderate foliaion. Abundant healed calcite fractures	FC
K17-449	521.1	4460	4300	4250	1494	981	4336.667	2.912281	12.62959	Quartz-epidote-chlorite-biotite-sericite-amphiole-calcite-pyrite-pyrrohite. Moderate foliaion. Several large calcite veins	FC
K17-449	522	3450	3760	3550	2309	1502	3586.667	2.861214	10.26222	Chlorite-biotite-quartz-sericite-amphibole-calcite-pyrite-pyrrhotite. Moderate foliation. Abundant calcite veins	FC
K17-449	523	2940	2950	2920	1922	1209	2936.667	2.695652	7.916232	Quartz-chlorite-biotite-sericite-calcite. . Trace py,po. Moderate foliaion. Abundant healed calcite fractures. Blebby calcite in mtrx	FC
K17-449	524.3	2810	2840	2900	2107	1329	2850	2.708226	7.718445	Chlorite-quartz-calcite-sericite-biotite. Trace py, po. Moderate foliation. Blebby calcite	FC
K17-449	525	2690	2830	2670	1937	1221	2730	2.705307	7.385489	Chlorite-quartz-calcite-sericite-biotite. Trace py, po. Moderate foliation. Blebby calcite	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	526	2820	2660	2840	2495	1570	2773.333	2.697297	7.480505	Chlorite-quartz-calcite-sericite-biotite-epidote. Trace py, po. Moderate foliation. Blebby calcite	FC
K17-449	526.9	2570	2590	2600	2489	1560	2586.667	2.679225	6.930262	Chlorite-quartz-calcite-sericite-biotite-epidote. Trace py, po. Moderate foliation. Blebby calcite	FC
K17-449	528	2690	2700	2710	1926	1212	2700	2.697479	7.283193	Chlorite-quartz-calcite-sericite-biotite-epidote. Trace py, po. Moderate foliation. Blebby calcite + qtz	FC
K17-449	529	4390	4390	4440	1826	1194	4406.667	2.889241	12.73192	Chlorite-biotite-epidote-quartz-sericite-pyrite. Moderate foliation. Heavily fractured, infilled with calcite, and biotite.	FC
K17-449	530.2	3700	4000	4010	1248	814	3903.333	2.875576	11.22433	Chlorite-biotite-quartz-epidote-sericite-pyrite. Epi occurs as small phenocrysts. Large crosscutting calcite vein with biotite along boundary	FC
K17-449	531	5470	5560	5620	2601	1725	5550	2.969178	16.47894	Chlorite-biotite-epidote-quartz-sericite-pyrite. Moderate foliation. Heavily fractured, infilled with calcite, and biotite.	FC
K17-449	533.1	4810	4700	4850	1905	1255	4786.667	2.930769	14.02862	Chlorite-biotite-quartz-epidote-sericite-pyrite. Epi occurs as small phenocrysts. Several crosscutting calcite veins	FC
K17-449	534	3570	4340	3500	2295	1491	3803.333	2.854478	10.85653	Chlorite-biotite-quartz-epidote-sericite-pyrite. Abundant crosscutting calcite veins.	FC
K17-449	535	3490	3580	3530	2059	1340	3533.333	2.8637	10.11841	Chlorite-biotite-quartz-epidote-sericite-pyrite-pyrrhotite. Moderate foliation. Abundant crosscutting calcite veins.	FC
K17-449	536.1	2610	2700	2610	1805	1172	2640	2.851501	7.527962	Chlorite-biotite-quartz-epidote-calcite-sericite-pyrite. Moderate foliation. Moderate calcite veins	FC
K17-449	537	2650	2650	2740	1875	1217	2680	2.849544	7.636778	Chlorite-biotite-quartz-epidote-calcite-sericite-pyrite. Moderate foliation. Moderate calcite veins	FC
K17-449	538	2190	2368	2210	1749	1139	2256	2.867213	6.468433	Chlorite-biotite-quartz-epidote-calcite-sericite-pyrite. Moderate foliation. Moderate calcite veins	FC
K17-449	539.2	2160	2120	2910	1684	1105	2396.667	2.908463	6.970616	Chlorite-biotite-quartz-epidote-calcite-sericite-pyrite. Moderate foliation. Moderate calcite veins	FC
K17-449	540.1	2980	2980	3120	1189	781	3026.667	2.914216	8.820359	Chlorite-biotite-quartz-epidote-calcite-sericite-pyrite. Moderate foliation. Several large chlorite veins	FC
K17-449	541	2450	2460	2530	2139	1401	2480	2.898374	7.187967	Chlorite-biotite-quartz-epidote-calcite-sericite-pyrite-pyrrhotite. Moderate foliation. Moderate calcite veins	FC
K17-449	542.1	2430	2500	3710	1441	952	2880	2.94683	8.486871	Chlorite-biotite-quartz-epidote-calcite-sericite-pyrite. Moderate foliation. Large crosscutting calcite vein	FC
K17-449	543	3650	3770	3850	3105	2050	3756.667	2.943128	11.05635	Chlorite-biotite-quartz-epidote-calcite-sericite-pyrite. Moderate foliation. Moderate calcite veins	FC
K17-449	544.2	2160	2290	2370	1997	1320	2273.333	2.949778	6.70583	Chlorite-biotite-quartz-epidote-calcite-sericite-pyrite. Moderate foliation. Abundant calcite veins	FC
K17-449	545.3	2330	2420	2420	1537	1021	2390	2.978682	7.11905	Chlorite-biotite-quartz-epidote-calcite-sericite-pyhrrotite-pyrite. Moderate foliation. Moderate calcite veins	FC
K17-449	546	3940	2750	3610	1371	908	3433.333	2.961123	10.16652	Chlorite-biotite-quartz-epidote-calcite-sericite-pyhrrotite-pyrite. Moderate foliation. Moderate calcite veins. Some blebby calcite	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	547	2730	2750	2680	2037	1352	2720	2.973723	8.088526	Chlorite-biotite-quartz-epidote-calcite-sericite-pyhrrotite-pyrite. Moderate foliation. Moderate calcite veins	FC
K17-449	548.1	3200	3330	3170	1552	1016	3233.333	2.895522	9.362189	Chlorite-biotite-quartz-epidote-calcite-sericite-pyhrrotite-pyrite. Moderate foliation. Abundant crosscutting calcite veins	FC
K17-449	549.1	2800	2820	2790	2938	1922	2803.333	2.891732	8.10649	Chlorite-biotite-quartz-epidote-calcite-sericite-pyhrrotite-pyrite. Moderate foliation. Moderate calcite veins	FC
K17-449	550	2160	2200	2180	2237	1445	2180	2.824495	6.157399	Chlorite-quartz-biotite-sericite-pyrite. Moderate folation. Fractures filled with bt. Trace cal. Blebby quartz	FC
K17-449	551.3	2720	2760	2570	1840	1197	2683.333	2.861586	7.67859	Chlorite-quartz-biotite-sericite-epidote-pyrite-pyhrrotite. Moderate folation. Fractures filled with bt. Trace cal. Blebby quartz	FC
K17-449	552	2050	2660	2330	2430	1572	2346.667	2.832168	6.646154	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite. Strong foliation. Fractures infilled with cal. Higher stress regime.	FC
K17-449	553	2750	2740	2720	2382	1552	2736.667	2.86988	7.853904	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite. Strong foliation. Fractures infilled with cal.	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	554	1880	2090	1910	1501	974	1960	2.848197	5.582467	Chlorite-quartz-epidote-biotite. Trace py, po, cal. Well foliated. Unfractured	FC
K17-449	555	2290	2340	2240	2033	1320	2290	2.851332	6.529551	Chlorite-quartz-epidote-biotite. Trace py, po, cal. Well foliated. Unfractured	FC
K17-449	556	5050	4920	5280	2189	1414	5083.333	2.824516	14.35796	Quartz-chlorite-biotite-sericite-pyrite-calcite. Well foliated, fractures infilled with biotite.	FC
K17-449	557.1	5070	4520	5170	1636	1051	4920	2.796581	13.75918	Quartz-chlorite-biotite-sericite-pyrite-calcite. Well foliated, fractures infilled with biotite.	FC
K17-449	558	3690	3230	3500	1235	823	3473.333	2.997573	10.41157	Chlorite-calcite-quartz-biotite-sericite. Moderate foliation. Large calcite bands	FC
K17-449	559	4290	4090	4040	2739	1808	4140	2.941998	12.17987	Chlorite-epidote-biotite-sericite-quartz-calcite. Moderate foliation. No fractures	FC
K17-449	560.1	4990	4640	4920	1536	1021	4850	2.982524	14.46524	Chlorite-epidote-calcite-biotite-sericite-quartz. Moderate foliation. No fractures. Trace pyrite	FC
K17-449	561.1	4070	3470	3690	1767	1169	3743.333	2.954849	11.06099	Chlorite-epidote-calcite-biotite-sericite-quartz. Moderate foliation. No fractures. Trace pyrite, po	FC
K17-449	562	5190	5400	4720	2445	1630	5103.333	3	15.31	Chlorite-epidote-calcite-biotite-sericite-quartz. Moderate foliation. No fractures. Trace pyrite	FC
K17-449	563	3150	4270	3140	1750	1157	3520	2.951096	10.38786	Chlorite-epidote-calcite-biotite-sericite-quartz. Moderate foliation. No fractures. Trace pyrite,po	FC
K17-449	564	4640	4720	4980	2000	1324	4780	2.95858	14.14201	Chlorite-epidote-calcite-biotite-sericite-quartz-pyrite-pyhrrotite. Moderate foliation. No fractures.	FC
K17-449	565	4270	4340	4320	2470	1640	4310	2.975904	12.82614	Chlorite-epidote-calcite-biotite-sericite-quartz-pyrite-pyhrrotite. weak foliation. No fractures. Chlorite matrix, epidote in clasts.	FC
K17-449	566.2	3350	3260	3320	1244	831	3310	3.012107	9.970073	Chlorite-quartz-biotite-sericite. Trace cal, moderate folitation, no fractures	FC
K17-449	567	4390	4070	3840	1466	476	4100	1.480808	6.071313	Chlorite-quartz-biotite-sericite. Trace cal, moderate folitation, no fractures. Fine grained.	FC
K17-449	568	2700	2410	2400	1216	803	2503.333	2.94431	7.370589	Chlorite-epidote-quartz. Weak foliation. Abundant calcite veins	FC
K17-449	568.9	2990	2840	2880	1457	918	2903.333	2.703154	7.848157	Quartz-chlorite-biotite-sericite-calcite. Moderate foliaion. Unfractured	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	570	5120	4780	5100	1998	1276	5000	2.767313	13.83657	Quartz-chlorite-biotite-sericite-calcite. Moderate foliaion. Several calite veins, and one large crosscutting qtz+chl vein.	FC
K17-449	571	4970	4820	5230	1481	946	5006.667	2.768224	13.85958	Quartz-chlorite-epidote-biotite-sericite-calcite. Moderate foliaion. Crenulation cleavage. Abundant fractures, several open. Large crosscutting qtz + chl vein	FC
K17-449	573.2	4570	4870	4590	2378	1506	4676.667	2.727064	12.75357	Quartz-chlorite-epidote-biotite-sericite-calcite, interlayered with massive quartz beds. Moderate foliaion, abundant fractures.	FC
K17-449	573.9	4950	5730	5240	2159	1390	5306.667	2.807542	14.89869	Quartz-chlorite-epidote-biotite-sericite-calcite, . Moderate foliaion, abundant fractures.	FC
K17-449	575.1	2500	2500	2480	1312	823	2493.333	2.683027	6.68968	Quartz-chlorite-epidote. Trace bt. Rhycf. Poor foliation. Moderate fractures.	FC
K17-449	576.1	2560	2520	2450	1222	769	2510	2.697572	6.770905	Quartz-chlorite-epidote. Trace bt, cal. Rhycf. Poor foliation. Moderate fractures.	FC
K17-449	577	3630	3130	3560	1468	929	3440	2.723562	9.369054	Quartz-chlorite-epidote-calcite. Trace bt. Moderate foliation. Moderate fractures infilled with cal	FC
K17-449	578.1	5910	5700	5770	2561	1658	5793.333	2.836102	16.43048	Chlorite-quartz-biotite-sericite-calcite. Trace po. Moderate foliation. Several large calcite filled fractures	FC
K17-449	579	5910	6020	6050	1802	1174	5993.333	2.869427	17.19743	Chlorite-calcite-quartz-biotite-sericite-. Trace po. Moderate foliation. Heavily fractured, calcite filled.	FC
K17-449	580	4440	4360	4390	1939	1258	4396.667	2.847283	12.51856	Biotite-sericite-chlorite-quartz-calcite. Tr blebby pyrite. Well foliated. Abundant calcite filled fractures	FC
K17-449	581.2	3570	3070	3170	1958	1256	3270	2.789174	9.120598	Biotite-sericite-chlorite-quartz-calcite. Well foliated. Large quartz/calcite veins.	FC
K17-449	582	3020	3010	3060	2120	1325	3030	2.666667	8.08	Quartz-biotite-chlorite-epidote-calcite. Rhycf. Well foliated, heavily fractured.	FC
K17-449	583.1	4720	4240	4790	1332	861	4583.333	2.828025	12.96178	Chlorite-quartz-biotite-sericite-calcite. Moderate foliation. Moderate fracture	FC
K17-449	584.1	2440	3750	2480	1642	1025	2890	2.661264	7.691053	Quartz-biotite-chlorite-epidote-calcite. Rhycf. Well foliated, heavily fractured.	FC
K17-449	585	4700	4720	4570	2615	1688	4663.333	2.820928	13.15493	Chlorite-quartz-biotite-sericite-calcite. Trace py, po. Moderate foliation. Moderate fracture	FC
K17-449	586	3590	3020	3390	1634	1030	3333.333	2.705298	9.01766	Chlorite-quartz-biotite-sericite-calcite. Moderate foliation. Abundant calcite veins	FC
K17-449	587.1	4190	4260	3010	1996	1264	3820	2.726776	10.41628	Quartz-biotite-chlorite-epidote-calcite. Trace py. Rhycf. Well foliated, heavily fractured.	FC
K17-449	588	3760	3030	3730	2301	1470	3506.667	2.768953	9.709795	Quartz--chlorite-epidote-biotite-calcite. Rhycf. Well foliated, heavily fractured.	FC
K17-449	590.1	4390	3950	4050	2313	1482	4130	2.783394	11.49542	Chlorite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Well foliated. Moderate calcite veins	FC
K17-449	591.3	4080	4660	4600	1426	923	4446.667	2.83499	12.60626	Chlorite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Well foliated. Large 15cm calcite/quartz vein	FC
K17-449	592.1	2960	2950	2880	2432	1606	2930	2.94431	8.626828	Chlroite-quartz-biotite-sericite-calcite. Well foliated. Unfractured	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	593.1	4730	4720	4690	1454	960	4713.333	2.94332	13.87285	Chlroite-quartz-biotite-sericite-calcite. Well foliated. Minor fractures	FC
K17-449	594.2	2690	2680	2660	2606	1727	2676.667	2.964733	7.935601	Chlroite-quartz-biotite-sericite-calcite. Well foliated. Minor fractures	FC
K17-449	595	2920	2930	2960	1833	1209	2936.667	2.9375	8.626458	Chlroite-quartz-biotite-sericite-calcite. Well foliated. Minor fractures	FC
K17-449	596.1	3630	4660	3690	1925	1253	3993.333	2.864583	11.43924	Chlroite-quartz-biotite-sericite-calcite. Well foliated. Minor fractures	FC
K17-449	577	3300	3310	3210	2283	1497	3273.333	2.90458	9.507659	Chlroite-quartz-biotite-sericite-calcite. Well foliated. Minor fractures	FC
K17-449	598	3730	3750	3690	1593	1043	3723.333	2.896364	10.78413	Chlroite-quartz-biotite-sericite-calcite. Well foliated. Minor fractures. One large calcite vein	FC
K17-449	599.3	5320	5420	5300	1927	1264	5346.667	2.906486	15.54001	Chlroite-quartz-biotite-sericite-calcite. Trace py. Well foliated. moderate fractures filled with calcite	FC
K17-449	600.2	2860	2720	2910	2154	1397	2830	2.845443	8.052602	Chlroite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Well foliated. Minor fractures. Large qtz/calcite beds	FC
K17-449	601	3560	3730	3720	1274	804	3670	2.710638	9.948043	Quartz--chlorite-epidote-biotite-calcite. Rhycf. Well foliated, heavily fractured with bt, qtz, calcite infilling veins	FC
K17-449	602.1	3420	3690	3070	1500	953	3393.333	2.74223	9.305302	Quartz--chlorite-epidote-biotite-calcite. Rhy. Well foliated.	FC
K17-449	603	2270	2160	2120	1622	1019	2183.333	2.689884	5.872913	Chlorite-quartz-biotite-sericite-calcite. Moderate foliation. Abundant calcite veinlets	FC
K17-449	604.2	2620	3280	2480	1812	1138	2793.333	2.688427	7.509674	Chlorite-epidote-biotite-sericite-quartz-calcite. Poor foliaton, heavily fractured.	FC
K17-449	605.1	3880	3720	3940	1970	1240	3846.667	2.69863	10.38073	Chlorite-epidote-biotite-sericite-quartz-calcite. Trace po. Poor foliaton, heavily fractured.	FC
K17-449	606	2880	2920	2810	2146	1349	2870	2.692597	7.727754	Chlorite-Quartz-epidote-biotite-sericite--calcite. Moderate foliaton, moderatly fractured, filled with calcite	FC
K17-449	607	4810	5510	4970	2355	1530	5096.667	2.854545	14.54867	Chlorite-epidote-biotite-sericite-quartz-calcite. Poor foliaton,banded calcite layers	FC
K17-449	608.1	5660	5430	5620	2133	1394	5570	2.886333	16.07687	Chlorite-epidote-biotite-sericite-quartz-calcite. Poor foliaton,banded calcite layers	FC
K17-449	608.9	4100	3240	3100	1442	910	3480	2.710526	9.432632	Quartz--chlorite-epidote-biotite-calcite. Rhycf. Well foliated, heavily fractured with bt, qtz, calcite infilling veins	FC
K17-449	610	3720	3700	2280	1751	1124	3233.333	2.792663	9.029612	Chlorite-epidote-biotite-sericite-quartz-calcite. Poor foliaton, heavily fractured. Abundant veinlets filled with qtz, cal, py	FC
K17-449	611.1	3740	4070	4230	1668	1096	4013.333	2.916084	11.70322	Chlorite-epidote-biotite-sericite-quartz-calcite. Poor foliaton, heavily fractured. Abundant veinlets filled with qtz, cal, py	FC
K17-449	612.1	3280	3790	3900	2096	1384	3656.667	2.94382	10.76457	Chlorite-epidote-biotite-sericite-quartz-calcite. Poor foliaton, moderatly fractured. veinlets filled with qtz, cal, py	FC
K17-449	613	5030	4900	5470	1164	738	5133.333	2.732394	14.02629	Chlorite-Quartz-epidote-biotite-sericite-calcite. Trace po, chalco, py.Moderate foliaton, moderatly fractured, filled with calcite	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	614.2	4640	4670	4730	2372	1492	4680	2.695455	12.61473	Chlorite-Quartz-epidote-biotite-sericite-calcite. Trace po, chalco, py.Moderate foliaton, moderatly fractured, filled with calcite	FC
K17-449	615	3210	3300	3200	1170	741	3236.667	2.727273	8.827273	Chlorite-Quartz-epidote-biotite-sericite-calcite. Trace po, chalco, py.Moderate foliaton, moderatly fractured, filled with calcite	FC
K17-449	616	4440	4590	4590	2385	1512	4540	2.731959	12.40309	Chlorite-Quartz-epidote-biotite-sericite-calcite. Trace po, chalco, py.Moderate foliaton, 10cm wide crosscutting qtz+calcite vein	FC
K17-449	616.9	3770	4130	3930	1651	1075	3943.333	2.866319	11.30285	Chlorite-Quartz-epidote-biotite-sericite-calcite. Trace po, chalco, py.Moderate foliaton, moderatly fractured, filled with calcite and chlorite	FC
K17-449	618.9	5030	5000	5080	1427	927	5036.667	2.854	14.37465	Chlorite-Calcite-epidote-biotite-sericite-quratz. Trace po, py.Moderate foliaton, moderatly fractured, filled with calcite	FC
K17-449	620	5400	4210	5490	1951	1259	5033.333	2.819364	14.1908	Chlorite-Quartz-Kspar-epidote-biotite-sericite-calcite. Trace po, chalco, py.Moderate foliaton, moderatly fractured, filled with calcite	FC
K17-449	621	3810	3420	3660	2169	1399	3630	2.816883	10.22529	Chlorite-calcite-epidote-biotite-sericite-quartz. Trace po, py.Moderate foliaton, moderatly fractured, filled with calcite.	FC
K17-449	622	4480	4760	4410	1609	1029	4550	2.774138	12.62233	Chlorite-Quartz-epidote-biotite-sericite-calcite. Trace po, chalco, py.Moderate foliaton, moderatly fractured, filled with calcite	FC
K17-449	623	3710	3280	2560	1929	1256	3183.333	2.86627	9.124294	Chlorite-Quartz-epidote-biotite-sericite-calcite. Trace po, chalco, py.Moderate foliaton, moderatly fractured, filled with calcite. Several open fractures	FC
K17-449	624	2920	2770	2900	1794	1140	2863.333	2.743119	7.854465	Chlorite-calcite-epidote-biotite-sericite-quartz. Trace po, py.Moderate foliaton, moderatly fractured, filled with calcite and qtz	FC
K17-449	624.9	4870	4550	4730	1508	968	4716.667	2.792593	13.17173	Chlorite-Quartz-epidote-biotite-sericite-calcite. Trace po, py.Moderate foliaton, unfractured	FC
K17-449	626.1	5140	4890	5120	2300	1477	5050	2.794654	14.113	Chlorite-Quartz-epidote-biotite-sericite-calcite. Trace po, chalco, py.Moderate foliaton. Contact b/t more bio rich layer and Rhycf layer. Sevral small calcite fractures	FC
K17-449	627	4900	4620	4820	2114	1326	4780	2.682741	12.8235	Quartz-cholorite-epidote-biotite-calcite. Trace po. Unfractured. Weak foliation	FC
K17-449	628	3130	3150	3980	1754	1123	3420	2.779715	9.506624	Chlorite-Quartz-epidote-biotite-sericite-calcite. Trace po, py.Moderate foliaton, unfractured. Large qtz/cal intrusion.	FC
K17-449	629	5420	5260	5380	1756	1137	5353.333	2.836834	15.18652	Chlorite-calcite-biotite-sericite-quartz. Bt grains are larger then usual. Moderate foliation. Several calcite veinlets.	FC
K17-449	630	4460	4460	4490	1306	851	4470	2.87033	12.83037	Chlorite-epidote-calcite. Trace py, bt. Moderate foliation. Several py veinlets.	FC
K17-449	631	3200	3130	3090	2491	1550	3140	2.647184	8.312157	Chlorite-epidote-quartz. Trace bt. Moderation foliation. Large, thin crosscutting calcite vein	FC
K17-449	632.1	4500	3440	4500	2546	1629	4146.667	2.776445	11.51299	Chlorite-epidote-quartz. Trace bt. Weak foliation. Abundant calcite veinlets.	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	634.2	5000	5400	4550	2056	1319	4983.333	2.789688	13.90194	Chlorite-epidote-quartz-biotite-sericite. Moderate foliation. Abundant calcite veinlets.	FC
K17-449	635.1	5070	4620	4630	2722	1770	4773.333	2.859244	13.64812	Chlorite-epidote-calcite-biotite-sericite-quartz. Moderate foliation. Minor calcite veinlets.	FC
K17-449	635.8	5000	5300	5280	5610	1692	5193.333	1.431853	7.43609	Chlorite-epidote-calcite-biotite-sericite-quartz. Moderate foliation. Minor calcite veinlets.	FC
K17-449	637	4850	5230	4870	2585	1653	4983.333	2.773605	13.8218	Chlorite-epidote-calcite-biotite-sericite-quartz. Moderate foliation. Large qtz calcite intrusion	FC
K17-449	638.1	4840	5300	4620	2073	1368	4920	2.940426	14.46689	Chlorite-epidote-biotite-sericite-quartz. Moderate foliation. Abundant calcite veinlets	FC
K17-449	639	4600	4660	4850	1473	960	4703.333	2.871345	13.50489	Chlorite-epidote-biotite-sericite-quartz. Moderate foliation. Abundant calcite veinlets	FC
K17-449	640.3	4810	4920	4760	1352	882	4830	2.876596	13.89396	Chlorite-epidote-biotite-sericite-quartz. Moderate foliation. Abundant calcite veinlets	FC
K17-449	641	4690	3710	3460	1294	819	3953.333	2.724211	10.76971	Large qtz calcite vein	FC
K17-449	642	5420	5420	5560	1728	1126	5466.667	2.870432	15.69169	Chlorite-epidote-biotite-sericite-quartz. Trace po, py. Moderate foliation. Moderate calcite veinlets	FC
K17-449	643	3260	4390	4030	1260	807	3893.333	2.781457	10.82914	Chlorite-epidote-biotite-sericite-quartz. Moderate foliation. several calcite veinlets. 5 cm thick quartz vein.	FC
K17-449	644.3	4530	5140	4420	1384	890	4696.667	2.801619	13.15827	Chlorite-epidote-calcite-biotite-sericite-quartz. Moderate foliation. Unfractured	FC
K17-449	645	4930	4480	5100	1546	983	4836.667	2.746004	13.2815	Chlorite-epidote-quartz-calcite-biotite-sericite. Trace py, po. Moderate foliation. Abundant small calcite veinlets	FC
K17-449	646	3060	3950	3850	1459	944	3620	2.83301	10.2555	Chlorite-epidote-quartz-calcite-biotite-sericite. Trace py, po. Moderate foliation. Abundant small calcite veinlets	FC
K17-449	648.1	5510	5420	5400	1600	1041	5443.333	2.862254	15.5802	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite. Trace py. Moderate foliation. Abundant small calcite veinlets	FC
K17-449	649	4170	4340	4290	1712	1121	4266.667	2.896785	12.35962	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite. Trace py. Moderate foliation. Abundant small calcite veinlets	FC
K17-449	650.1	5510	5470	5210	2353	1533	5396.667	2.869512	15.4858	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite. Trace py. Moderate foliation. Abundant biotiteveinlets	FC
K17-449	651.1	3360	3910	3310	2338	1530	3526.667	2.893564	10.20464	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite-pyrrhotite. Moderate foliation. Abundant biotite veinlets. Cherty	FC
K17-449	652	5210	5210	5140	2133	1399	5186.667	2.905995	15.07243	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite-pyrrhotite. Moderate foliation. Several calcite veinlets. Cherty	FC
K17-449	653.4	2820	3430	3860	1234	797	3370	2.823799	9.516201	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite-pyrrhotite. Moderate foliation. Several calcite veinlets.	FC
K17-449	654	3710	3300	3820	1279	806	3610	2.704017	9.761501	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite-pyrrhotite. Moderate foliation. Heavily fractured, large qtz calcite veins	FC
K17-449	655	2760	2980	2220	1055	665	2653.333	2.705128	7.177607	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite-pyrrhotite. Moderate foliation. Heavily fractured, large qtz calcite veins	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	657	2870	3670	2970	1398	886	3170	2.730469	8.655586	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite-pyrrhotite. Moderate foliation. Heavily fractured, large qtz calcite veins	FC
K17-449	657.7	4040	4390	4450	2163	1350	4293.333	2.660517	11.42248	80% massive qtz + calcite, 20% same as above	FC
K17-449	660.1	2480	1850	3350	2537	1636	2560	2.81576	7.208346	Chlorite -epidote-calcite-biotite-sericite-pyrite intermixed with massive qtz/calcite.	FC
K17-449	661	2860	2660	2450	1661	1053	2656.667	2.731908	7.257769	Large quartz/calcite phenocrysts in a chloritic matrix. Not foliated. Heavy open fractures	FC
K17-449	662	3610	3360	3420	1216	770	3463.333	2.726457	9.442631	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite-pyrrhotite. Moderate foliation. Heavily fractured, large qtz calcite veins	FC
K17-449	662.9	4100	4660	3770	1464	921	4176.667	2.696133	11.26085	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite-pyrrhotite. Moderate foliation. 50% massive qtz/calcite	FC
K17-449	664	3210	5050	4310	1713	1074	4190	2.680751	11.23235	80% massve qtz calcite, 20% as described above. Heavy calcite veinlets. Weak foliation	FC
K17-449	665	2520	2590	2630	1590	1003	2580	2.708688	6.988416	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite-pyrrhotite. Moderate foliation. 20% massive qtz/calcite	FC
K17-449	666.1	3370	3180	3600	1802	1149	3383.333	2.759571	9.336549	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite-pyrrhotite. Moderate foliation. No fractures	FC
K17-449	667.1	4210	4570	4120	1537	960	4300	2.663778	11.45425	80% massve qtz calcite, 20% as described above. Weak foliation. Unfractured	FC
K17-449	668.3	4360	4250	4110	1677	1097	4240	2.891379	12.25945	fine grained chlorite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Moderate folation. Several calcite veinlets	FC
K17-449	669	3880	4310	4180	1602	1047	4123.333	2.886486	11.90195	chlorite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Moderate folation. 20% massive qtz calcite	FC
K17-449	670	5190	5230	5360	2034	1288	5260	2.726542	14.34161	Quartz-chlorite-biotite-sercicite-pyrite-pyrrhotite. Crenulation cleavage. Moderate foliation. Unfractured	FC
K17-449	671.2	3660	2770	2340	1484	946	2923.333	2.758364	8.063618	Quartz-chlorite-biotite-sercicite-pyrite-pyrrhotite. Moderate foliation. Unfractured	FC
K17-449	672.4	3210	4850	3160	1851	1180	3740	2.758569	10.31705	Massive quartz, chl, po and py veins.	FC
K17-449	673.2	5070	4550	4950	2212	1400	4856.667	2.724138	13.23023	60% massive qtz + cal, 40% chlorite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Moderate folation. Abundant po and py	FC
K17-449	674.1	4200	4200	4250	1643	1022	4216.667	2.645733	11.15617	Massive qtz /calcite. Moderatly fractured	FC
K17-449	675.1	3360	4320	2690	1654	1070	3456.667	2.832192	9.789943	30% massive qtz + cal, 70% chlorite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Moderate folation.	FC
K17-449	678	2760	2370	3130	1635	1041	2753.333	2.752525	7.57862	Chlorite-epidote-quartz-calcite-biotite-sericite-pyrite. Trace py. Moderate foliation. unfractured,	FC
K17-449	679	4570	3690	3170	1927	1212	3810	2.695105	10.26835	50% massive qtz + cal, 50% chlorite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Moderate folation.	FC
K17-449	681	4400	3230	4480	1841	1162	4036.667	2.71134	10.94478	Quartz-chlorite-epidote-calcite-biotite-sericite-pyrite. Trace py. Moderate foliation. Abundant calcite veinlets	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	682	4110	3350	4250	1650	1039	3903.333	2.700491	10.54092	65% massive qtz + cal, 35% chlorite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Moderate folation.	FC
K17-449	683.3	4040	4020	4180	1296	813	4080	2.68323	10.94758	75% massive qtz + cal, 25% chlorite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Moderate folation.	FC
K17-449	684	5430	5950	5380	2099	1324	5586.667	2.708387	15.13086	Quartz-chlorite-epidote-calcite-biotite-sericite. Moderate foliation. Abundant calcite veinlets	FC
K17-449	685.2	4670	4640	4530	1942	1230	4613.333	2.727528	12.583	Quartz-chlorite-epidote-calcite-biotite-sericite. Moderate foliation. Abundant calcite veinlets	FC
K17-449	686.1	3390	4310	3400	2124	1356	3700	2.765625	10.23281	Quartz-chlorite-epidote-calcite-biotite-sericite. Trace py po. Moderate foliation. moderate calcite veinlets	FC
K17-449	687.8	2740	2770	2510	1324	831	2673.333	2.685598	7.1795	Quartz-chlorite-epidote-calcite-biotite-sericite. Trace py po. Moderate foliation. moderate calcite veinlets	FC
K17-449	689.2	4630	5580	5150	1265	792	5120	2.674419	13.69302	75% massive qtz + cal, 25% chlorite-quartz-biotite-sericite-calcite-pyrite-pyrrhotite. Moderate folation.	FC
K17-449	690.2	2470	2790	2930	1289	843	2730	2.890135	7.890067	Quartz-chlorite-epidote-calcite-biotite-sericite. Trace py po. Moderate foliation. moderate calcite veinlets	FC
K17-449	691.7	4780	4920	4900	1586	1041	4866.667	2.910092	14.16245	Quartz-chlorite-epidote-calcite-biotite-sericite. Trace py po. Moderate foliation. moderate calcite veinlets	FC
K17-449	694	5170	3890	5120	2550	1660	4726.667	2.865169	13.5427	Chlorite-calcite-biotite. Trace py. Moderate foliation. Abundant calcite veinlets.	FC
K17-449	695	5680	5660	5660	2607	1750	5666.667	3.042007	17.23804	Chlorite-calcite-biotite. Trace py. Moderate foliation. Unfractured	FC
K17-449	696.2	4300	4240	4250	1881	1206	4263.333	2.786667	11.88049	Chlorite-calcite-biotite. Trace py. Moderate foliation. Abundant calcite veinlets	FC
K17-449	697	2840	3240	3160	1304	834	3080	2.774468	8.545362	Disseminated quartz/calcite. Chlorite-calcite-biotite matrix	FC
K17-449	698.1	2850	3070	3090	1139	735	3003.333	2.819307	8.467318	Chlorite-epidote-quartz-calcite-biotite-sericite. Moderate foliation. Several fractures, 4 cm wide, crosscutting qtz+ cal vein.	FC
K17-449	699.1	4230	4400	4340	2522	1646	4323.333	2.878995	12.44686	Chlorite-epidote-quartz-calcite-biotite-sericite. Trace py, po. Well foliation. Unfractured. Abundant Qtz/calcite lenses, with bt around grain boundry	FC
K17-449	700	4500	4810	4790	2103	1385	4700	2.928969	13.76616	Chlorite-epidote-quartz-calcite-biotite-sericite. Trace py, po. Moderate foliation. Unfractured	FC
K17-449	700.8	3190	3400	3490	1485	972	3360	2.894737	9.726316	Chlorite-epidote-quartz-calcite-biotite-sericite. Trace py, po. Well foliated. Unfractured. Strong banding	FC
K17-449	703	3180	3410	3120	1327	876	3236.667	2.94235	9.523407	Graphitic mudstone. Chlorite, biotite, pyrrhotite. Several calcite/quartz/chlorite veins, 1 cm thick	FC
K17-449	704	4790	4810	4770	1373	904	3329.4	2.927505	9.746836	Graphitic mudstone. Chlorite, biotite, pyrrhotite. Calcite in veinlets and as small clasts.	FC
K17-449	705	3890	3260	3040	2530	1665	2877	2.924855	8.414809	Chlorite-epidote-quartz-calcite-biotite-sericite. Moderate foliation. Unfractured	FC
K17-449	706	2360	2500	2310	1976	1258	2080.8	2.752089	5.726547	Quartz-Chlorite-Biotite-Serictite-Calcite. SED. Moderate foliation. Unfactured	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	707.2	3630	3810	3570	1778	1168	2791.2	2.914754	8.135662	Chlorite-biotite-sericite-quartz-calcite. SED. Moderate foliation. Large qtz-calcite veinlets throughout.	FC
K17-449	708.2	4310	4630	4350	1596	1024	3182	2.79021	8.878448	Chlorite-epidote-biotite-sericite. SED Trace py, po. Moderate foliation. Large calcite/qtz intrusion	FC
K17-449	709	5230	5210	5240	2237	1413	3866	2.714806	10.49544	Quartz-sericite-biotite-calcite. RHYcf. Weak foliation. Unfractured	FC
K17-449	710.1	2200	2340	2180	2101	1370	2038.2	2.874145	5.858082	Quartz-sericite-biotite-calcite. RHYcf. moderate foliation. Unfractured	FC
K17-449	711	2310	2470	2310	1523	1001	1922.8	2.917625	5.610008	MDSt, moderate foliation. Unfractured	FC
K17-449	712	2150	2150	2220	2723	1782	2205	2.89373	6.380675	MDSw. Trace py, po. 4cm thick calcite/qtz vein	FC
K17-449	713.1	3530	4200	4070	1846	1159	2961	2.687045	7.956341	MDSw. Trace py, po. 50% massive qtz/calcite	FC
K17-449	714	2810	2780	2830	1906	1262	2317.6	2.959627	6.859232	PEL. Bt rich, weak foliation. Unfractured	FC
K17-449	715	2690	2510	2750	1974	1285	2241.8	2.865022	6.422806	MAFi 5 cm thick massive qtz/calcite band	FC
K17-449	716.2	3040	2420	2890	1654	1084	2217.6	2.901754	6.434931	MAFi. Moderate foliation, unfractured	FC
K17-449	717	4140	3830	4160	2028	1326	3096.8	2.888889	8.946311	MAFi. Trace py, po. Moderate foliation, unfractured. Some massive qtz/calcite. Chlorite altered	FC
K17-449	719.3	4600	4600	4600	2616	1728	3628.8	2.945946	10.69025	MAFi. Trace py, po. Moderate foliation, unfractured. Some massive qtz/calcite. Chlorite altered	FC
K17-449	720	4410	4310	4320	1677	1105	3164.4	2.931818	9.277445	MAFi. Trace py, po. Moderate foliation, unfractured. Some massive qtz/calcite. Chlorite altered	FC
K17-449	721.7	4250	4090	4040	2326	1504	3242	2.829684	9.173835	MAFi. Contact with RHYcf. Moderate foliation, trace py, po. Chlorite altered. Unfractured	FC
K17-449	722	4810	3050	4070	2154	1388	3094.4	2.81201	8.701485	MDS. 65% qtz/calcite vein. Moderate foliation. Unfractured	FC
K17-449	723	4930	5450	5150	1860	1168	3711.6	2.687861	9.976266	Large qtz vein. Heavily fractured. Calcite infilling fractures. Unfoliated	FC
K17-449	724	4530	4500	4750	2366	1513	3531.8	2.77374	9.796294	MDSc w/ po. 50% massive blebby qtz/calcite vein	FC
K17-449	725	3630	4050	3500	1807	1127	2822.8	2.657353	7.501176	RHY. Poor foliation. Heavily fractured, with calcite infill. Tr bt + po	FC
K17-449	726.2	2980	3000	3010	1839	1148	2395.4	2.66136	6.375023	Large blebby qtz calcite vein	FC
K17-449	724.4	3270	4260	3990	1233	780	2706.6	2.721854	7.366971	Large blebby qtz calcite vein. Unfoliated	FC
K17-449	728.1	4210	4550	4040	2303	1466	3313.8	2.751493	9.117899	MDSc, with 50% calcite/qtz blebby. Moderate foliation. Trace po	FC
K17-449	729	4320	4290	4440	1994	1280	3264.8	2.792717	9.117663	MDSc, with 50% calcite/qtz blebby. Moderate foliation. Trace po, py	FC
K17-449	730.2	5000	5020	4920	1955	1242	3627.4	2.741935	9.946097	MDSc. Heavily chlorite altered. V. carbonaceous. Moderate foliation. 40% massive qtz vein	FC
K17-449	731.3	4530	4490	4460	2145	1373	3399.6	2.778497	9.44578	MDSt, moderate foliation. Slightly porphyritic. Several calcige filled fractures. Moderate foliation.	FC
K17-449	732	3920	3910	4090	1735	1134	2957.8	2.886855	8.53874	RHYcf, moderate folitaion. Abundant Po. Unfractured	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	733	3820	3810	3980	2310	1455	3075	2.701754	8.307895	25% MDst, moderate foliation, with 75% blebby cal/qtz vein	FC
K17-449	734.1	4320	4400	4400	1956	1231	3261.4	2.697931	8.799032	RHYcw. Crenulation cleavage. Specky calcite, well foliatied, unfratctured	FC
K17-449	735	5240	5210	5240	2403	1578	3934.2	2.912727	11.45925	MAFi. Trace py, po. Moderate foliation, unfractured. Chlorite altered	FC
K17-449	736	4520	4620	4460	2120	1372	3418.4	2.834225	9.688513	MAFi. Trace py, po. Moderate foliation, unfractured. Chlorite altered	FC
K17-449	737	4970	4890	4900	2351	1540	3730.2	2.89889	10.81344	MAFi. Trace py, po. Moderate foliation, unfractured. Chlorite altered	FC
K17-449	738	4480	4670	4290	2105	1352	3379.4	2.795485	9.447061	MAFi. Trace py, po. Moderate foliation, unfractured. Chlorite altered	FC
K17-449	739	4900	4890	5080	2589	1635	3818.8	2.713836	10.3636	MDsc. Chlorite altereted. Moderate foliation. Lightly fractured, filled with calcite.	FC
K17-449	740.2	4790	4630	4850	1703	1080	3410.6	2.733547	9.323037	MDsc. Chlorite altereted. Moderate foliation. Lightly fractured, filled with calcite.	FC
K17-449	741.2	4270	4230	3460	1865	1193	3003.6	2.775298	8.335884	MDsc. Chlorite altereted. Moderate foliation. Unfractured. Trace po, py.	FC
K17-449	743.2	5660	5430	5680	1453	908	3826.2	2.666055	10.20086	RHYc, poor foliation, unfractured.	FC
K17-449	744.1	5470	5240	5600	1567	979	3771.2	2.664966	10.05012	RHYc, poor foliation, light fractures	FC
K17-449	745.3	4760	4920	4810	1940	1232	3532.4	2.740113	9.679175	MDS. Moderate foliation, light fractures infilled with cal	FC
K17-449	746.3	3540	3550	4450	2157	1370	3013.4	2.740788	8.25909	MDS. Moderate foliation, light fractures infilled with cal	FC
K17-449	747	5210	5020	5280	2059	1207	3755.2	2.416667	9.075067	MDSc. Moderate foliation, not faulted. Chloritie alteration	FC
K17-449	748	4190	4480	4170	2119	1359	3263.6	2.788158	9.099432	MDS. Moderate foliation, several fractures, filled in with cal, bt.	FC
K17-449	748.9	5280	5150	5170	1259	783	3528.4	2.644958	9.33247	RHY. Poor foliation. Fractured with calcite infill. Common bt, altered	FC
K17-449	749	4050	3760	3990	1079	665	2708.8	2.60628	7.059892	RHY. Poor foliation. Fractured with calcite infill. Common bt, altered	FC
K17-449	751	4160	4170	4140	1497	932	2979.8	2.649558	7.895152	75% massive qtz, 25% mafic, calcareous matrilx. Heavily fractured, poor foliation	FC
K17-449	752.3	4780	5000	4850	2016	1283	3585.8	2.750341	9.862173	RHY. Poor foliation. Moderate bt, trace py, po. Altered. Unfractured	FC
K17-449	753	5150	5470	5300	2272	1440	3926.4	2.730769	10.72209	RHYcw, crenulation cleavage, trace py, po, unfractured, poor foliation	FC
K17-449	754.2	4450	5020	4290	2080	1319	3431.8	2.733246	9.379953	RHYcw, crenulation cleavage, trace py, po, fractures filled with qtz, pyrite pyrrhotite, poor foliation	FC
K17-449	755.2	5030	5190	4900	2140	1360	3724	2.74359	10.21713	RHYcw, crenulation cleavage, trace py, po, fractures filled with qtz, pyrite pyrrhotite, poor foliation	FC
K17-449	756	4390	4530	4730	1461	947	3211.6	2.842412	9.128692	PEL, bt rich, weak foliation, extremely calcareous and chlorite altered	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	757	5620	5640	5660	2104	1357	4076.2	2.8166	11.48102	SED, Chlorite-biotite-calcite-sericite. Moderate folation Unfractured	FC
K17-449	758.2	4400	4810	4350	1440	938	3187.6	2.868526	9.143713	SED, Chlorite-biotite-calcite-sericite. Moderate folation Unfractured	FC
K17-449	759.2	5660	5640	5750	2155	1402	4121.4	2.861886	11.79498	SED, Chlorite-biotite-calcite-sericite. Moderate folation Unfractured	FC
K17-449	760	4370	4400	4200	1577	1031	3115.6	2.888278	8.99872	SED, Chlorite--quartz-sericite. Moderate folation Unfractured	FC
K17-449	760.9	5360	5320	5120	1249	814	3572.6	2.871264	10.25788	SED, Chlorite-biotite-calcite-sericite. Moderate folation Unfractured	FC
K17-449	762	4460	4920	5000	2014	1333	3545.4	2.957416	10.48522	SED, Chlorite-biotite-calcite-sericite-quartz. Moderate folation. Well laminated. Several fractures filled with bt, cal	FC
K17-449	763.2	4620	4440	4920	1101	694	3155	2.70516	8.534779	RHY. Abundant bt, trace po, py. Fractured, filled with calcite. Poor foliation	FC
K17-449	764.3	5450	5490	5490	2350	1524	4060.8	2.845036	11.55312	SED, Chlorite-biotite-calcite-sericite-quartz. Trace py, po. Moderate folation. Well laminated. Heavily fractured, filled with cal.	FC
K17-449	765	4790	5210	4660	2209	1411	3656	2.76817	10.12043	SED. Flow badning, some rhyolite. Cholrite-biotite-calcite-sericite. Moderate foliation, unfractured.	FC
K17-449	766	5100	4320	5120	2140	1366	3609.2	2.764858	9.978925	SED, Chlorite-biotite-calcite-sericite. Trace py, po. Moderate folation Unfractured	FC
K17-449	767.2	4970	4900	4950	2327	1501	3729.6	2.817191	10.507	SED, Chlorite-biotite-calcite-sericite. Trace py, po. Moderate folation Unfractured	FC
K17-449	768	4250	4250	4730	2459	1546	3447	2.693319	9.28387	RHY, tr bt. Moderate foliation. Unfractured	FC
K17-449	768.9	3250	3810	3250	1257	813	2476	2.831081	7.009757	RHYcf. Moderate foliation, unfractured. 4 cm thick quartz vein running through it.	FC
K17-449	770.1	4070	3840	4850	1703	1111	3114.8	2.876689	8.960311	SED, Chlorite-biotite-calcite-sericite-quartz. Moderate folation. Well laminated. Unfractured	FC
K17-449	771	3430	2910	2960	2332	1503	2627	2.813028	7.389824	SED, Chlorite-biotite-calcite-sericite-quartz. Moderate folation. Well laminated. Several fractures filled with bt, cal	FC
K17-449	772.2	4170	4490	4240	2065	1335	3260	2.828767	9.221781	SED, Chlorite-biotite-calcite-sericite-quartz. Moderate folation. Well laminated. Unfractured	FC
K17-449	773.2	3430	4670	4720	2540	1672	3406.4	2.926267	9.968037	SED, Chlorite-biotite-calcite-sericite-quartz. Trace py, po. Moderate folation. Well laminated. Unfractured	FC
K17-449	774.2	4110	4050	4440	2267	1488	3271	2.910141	9.519072	SED, Chlorite-biotite-calcite-sericite-quartz. Trace py, po. Moderate folation. Well laminated. Unfractured	FC
K17-449	774.9	4160	4270	4340	1463	954	3037.4	2.874263	8.730287	SED, Chlorite-biotite-calcite-sericite-quartz. Trace py, po. Moderate folation. Well laminated. Unfractured	FC
K17-449	776.2	4340	4410	4210	2355	1527	3368.4	2.844203	9.580413	SED, Chlorite-biotite-calcite-sericite-quartz. Trace py, po. Moderate folation. Several thick qtz veins	FC
K17-449	777	4970	4820	4640	1946	1256	3526.4	2.82029	9.94547	SED, Chlorite-biotite-calcite-sericite-quartz. Trace py, po. Poor foliation. Well laminated. Lightly fractured. 8 cm thick qtz vein	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-449	778.1	3160	3180	3090	1466	933	2365.8	2.750469	6.50706	SED, Chlorite-biotite-calcite-sericite-quartz. Poor folation. Well laminated. Wispy pyrite found in lamelle . 50% quartz vein	FC
K17-449	778.8	2140	2490	2470	1456	917	1894.6	2.701299	5.117881	SED, Chlorite-biotite-calcite-sericite-quartz. Poor folation. Well laminated. Wispy pyrite found in lamelle . 50% quartz vein	FC
K17-449	779.9	3820	4180	3540	1767	1154	2892.2	2.882545	8.336896	MDSc. Poor foliation. Well laminated. Several calcite filled fractures	FC
K17-449	781	4110	4230	4020	2005	1311	3135.2	2.889049	9.057746	MDSc. Poor foliation. Well laminated. Several calcite filled fractures	FC
K17-449	782.1	3210	3020	3330	1416	903	2375.8	2.760234	6.557764	MDS. Moderate foliation. Round qtz inclusion. Abundant py and po. Unfractured	FC
K17-449	784	2550	2960	3770	2379	1546	2641	2.855942	7.542544	MDS. Moderate foliation. Banded qtz and calcite. Large crosscutting healed veins infilled with qtz, py.	FC
K17-449	786	2480	2780	2620	2219	1398	2299.4	2.702801	6.214822	MDS. Moderate foliation. Py, po enriched. Several healed fractures, filled with cal and py; crosscutting.	FC
K17-449	787	2420	2520	2590	1478	928	1987.2	2.687273	5.340148	MDS. Moderate foliation. Py, po enriched. Abundant healed fractures, filled with cal and py; crosscutting.	FC
K17-449	787.8	2610	2740	2630	1423	898	2060.2	2.710476	5.584123	MDS. Moderate foliation. Unfractured. Rhyolitic.	FC
K17-449	789.2	4160	4180	4180	1931	1231	3136.4	2.758571	8.651983	MDS. Moderate foliation. Unfractured. 40% massive qtz + calcite.	FC
K17-449	790.5	3460	3330	3560	1276	820	2489.2	2.798246	6.965393	MDS. Unfractured. Weak foliation.	FC
K17-449	791.1	3810	4090	3750	1743	1110	2900.6	2.753555	7.98696	Qtz and calcite vein.	FC
K17-449	792.2	3100	3540	3130	1271	800	2368.2	2.698514	6.39062	50% MDS, 50% qtz	FC
K17-449	793	2680	2660	2760	1784	1130	2202.8	2.727829	6.008861	MDSc. Well laminated, crenulation cleavage. Poor foliation. Trace py, po, unfractured	FC
K17-449	794.1	3750	3830	3690	1378	888	2707.2	2.812245	7.613309	MDS. Moderate foliation. 5 cm thick qtz + calcite vein. Light fractures.	FC
K17-449	795	3910	3140	3920	1997	1294	2852.2	2.840683	8.102195	MDSc. Well laminated, crenulation cleavage. Poor foliation. Trace py, po, unfractured. 6 cm thick quartz bed	FC
K17-449	796.2	4350	4250	4360	2532	1646	3427.6	2.857788	9.795353	MDS. Unfractured, weak foliation, abundant bt, tace py, po, cp	FC
K17-449	797	3390	3610	2760	2198	1446	2680.8	2.922872	7.835636	MDS. Unfractured, weak foliation, abundant bt, tace py, po, cp. Banded qtz + cal	FC
K17-449	798	4570	4140	4560	2136	1404	3362	2.918033	9.810426	MDS. Unfractured, weak foliation, abundant bt, tace py, po, cp. Banded qtz + cal	FC
K17-449	799	3580	4240	3810	2980	1950	3312	2.893204	9.582291	MDS. Unfractured, weak foliation, abundant bt, tace py, po, cp. Banded qtz + cal	FC
K17-449	799.8	2440	2890	3790	1502	982	2320.8	2.888462	6.703542	MDS. Unfractured, weak foliation, abundant bt, tace py, po, cp. Banded qtz + cal	FC
K17-450	Calibration	2710					2710			Start 8:30 am	
K17-450	5.3	2270	2410	2440	1322	836	2373.333	2.720165	6.455857	RHYv, quartz-sericite, lapilli altered ankerite-dolomite, foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-450	6.1	2580	2460	2480	1443	919	2506.667	2.753817	6.902901	RHYv, quartz-sericite-trace calcite, disseminated fie grained py-po, weakly foliated	FC
K17-450	7.0	3320	3180	3250	1607	1020	3250	2.737649	8.897359	RHYv, quartz-sericite-patchy calcite, lapilli or crystal fragments, fine grained py disseminated, fractured-calcite infill, trace oxidation, poorly foliated	FC
K17-450	9.0	3060	3010	3050	2362	1487	3040	2.699429	8.206263	RHYv, quartz-sericite-trace calcite associated with rare biotite, disseminated py, silica banded, well foliated	FC
K17-450	10.0	3330	3120	3090	1883	1190	3180	2.717172	8.640606	RHYv or crystal tuff, quartz-sericite-trace calcite associated with rare biotite, disseminated py-po, silica banded, well foliated-weakly folded	FC
K17-450	11.1	3960	3870	3980	1784	1166	3936.667	2.886731	11.3641	MAFi, fine grained biotite-calcite-quartz-lesser chlorite, calcite-quartz wavy veinlet sets, disseminated po (5%), strong calcite alteration, weakly foliated	FC
K17-450	12.1	3370	3300	3360	1656	1077	3343.333	2.860104	9.56228	MAFi, fine grained biotite-calcite-quartz-lesser chlorite, calcite-quartz wavy veinlet sets, disseminated po (5%), strong calcite alteration, weakly foliated	FC
K17-450	12.9	3330	3390	3330	2684	1771	3350	2.939759	9.848193	MAFi, fine grained biotite-calcite-quartz-lesser chlorite, calcite-quartz wavy veinlet sets, disseminated po (5%), strong calcite alteration, weakly foliated	FC
K17-450	14.1	3590	3690	3610	2088	1346	3630	2.814016	10.21488	MAFi, fine grained biotite-calcite-quartz-lesser chlorite, calcite-quartz wavy veinlet sets, disseminated po (5%), strong calcite alteration, weakly foliated	FC
K17-450	15.0	3770	3950	3910	2326	1533	3876.667	2.933165	11.3709	MAFi, fine grained biotite-calcite-quartz-lesser chlorite, calcite-quartz wavy veinlet sets, disseminated po (5%), strong calcite alteration, weakly foliated	FC
K17-450	16.1	3820	3900	3790	1332	859	3836.667	2.816068	10.80431	MAFi, fine grained biotite-calcite-quartz-lesser chlorite, calcite-quartz wavy veinlet sets, disseminated po (5%), strong calcite alteration, weakly foliated	FC
K17-450	17.5	3210	2730	3360	1360	893	3100	2.912206	9.027837	MAFi, fine grained biotite-calcite-quartz, calcite-quartz wavy veinlet sets and calcite patch, disseminated po (5%), strong calcite alteration, poorly foliated	FC
K17-450	18.0	3710	3640	3690	1335	847	3680	2.735656	10.06721	RHYv, sericite-quartz, biotite-calcite patches-rare chlorite clots, medium strained lapilli, disseminated po (5%), poorly foliated	FC
K17-450	19.1	4270	4110	3690	1736	1116	4023.333	2.8	11.26533	RHYv, quartz-sericite-dolomite, dolomite pods-quartz selvage, disseminated p0, poorly foliated	FC
K17-450	20.1	3010	2840	3090	1646	1069	2980	2.852686	8.501005	RHYv, quartz-sericite-dolomite, deformed dolomite pods-quartz selvage, abundant disseminated po, poorly foliated, dolomite veinlet	FC
K17-450	22.0	3340	3650	3410	1960	1269	3466.667	2.836469	9.833092	RHY, sericite-dolomite-calcite, strongly dolomite altered, crosscutting tourmaline-pyrite veinlets-tourmaline in selvage penetrating fabric in two directions, py patch, well foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-450	26.1	4270	4270	4290	1837	1193	4276.667	2.852484	12.19913	PEL, fine grained biotite-calcite-lesser quartz, strong carbonate alteration, poorly foliated	FC
K17-450	26.9	4090	4260	4050	2000	1308	4133.333	2.890173	11.94605	PEL, very fine grained biotite-calcite-lesser quartz, sericite altered in micro fractured, poorly foliated	FC
K17-450	28.0	3370	3010	2950	2000	1271	3110	2.743484	8.532236	RHYv, sericite-quartz-dolomite-calcite-rare chlorite, possibly crystals, disseminated po, dolomite alteration-banded-foliated	FC
K17-450	30.1	3110	3040	3110	2038	1286	3086.667	2.710106	8.365195	RHYv, sericite-quartz-lesser calcite-biotite patch, possibly crystals or crystal fragments poorly sorted, quartz-veinlet, foliated	FC
K17-450	31.0	3380	3280	3420	2239	1422	3360	2.740514	9.208127	RHYv, sericite-quartz-lesser calcite-biotite patch, possibly crystals or crystal fragments poorly sorted, patchy po, weakly foliated	FC
K17-450	32.0	2610	2620	2610	1828	1163	2613.333	2.748872	7.183719	RHYv, sericite-quartz-lesser calcite-biotite patch, possibly crystals or crystal fragments poorly sorted-medium strained, wispy po, weakly foliated	FC
K17-450	33.0	3460	3410	3460	2534	1625	3443.333	2.787679	9.598907	RHYv, sericite-quartz-lesser calcite-biotite patch, lapilli or crystal fragments poorly sorted-medium strained, wispy po, weakly foliated	FC
K17-450	24.0	3140	3180	3140	1732	1109	2460.2	2.780096	6.839593	RHYv, sericite-quartz, lapilli or crystal fragments poorly sorted-medium strained, disseminated po-py, weakly foliated, thin fracture calcite infill along core axis	FC
K17-450	36.0	2040	2180	2090	1669	1064	2103.333	2.758678	5.802419	RHYv, sericite-quartz-dolomite, banded dolomite alteration, py-po disseminated, foliated, healed thin fractures along the core axis	FC
K17-450	37.2	2810	2840	2770	1684	1075	2806.667	2.765189	7.760963	RHYv, sericite-quartz, wispy and disseminated po, medium strained lapilli, well foliated	FC
K17-450	38.1	3360	3510	3530	2096	1346	3466.667	2.794667	9.688178	RHYv, sericite-quartz, medium strained lapilli-poorly sorted, wispy and disseminated po, foliated	FC
K17-450	39.0	3050	3090	3220	1609	1029	3120	2.774138	8.65531	RHYv, sericite-quartz, medium strained lapilli or crystal fragments-poorly sorted, wispy and disseminated po, foliated	FC
K17-450	40.2	2460	2370	2500	1839	1179	2443.333	2.786364	6.808015	RHYv, sericite-quartz, abundant quartz-py-po wispy bands, rare lapilli, well foliated	FC
K17-450	41.1	2770	2780	2800	1927	1237	2783.333	2.792754	7.773164	RHYv, quartz-sericite, low strained lapilli, trace py-po, weakly foliated	FC
K17-450	42.0	2610	2000	2580	1301	837	2396.667	2.803879	6.719964	RHYv, quartz-sericite, fine to medium grained, trace po, weakly foliated	FC
K17-450	43.0	2590	2480	2420	1856	1193	2496.667	2.799397	6.98916	RHYv, quartz-sericite, fine to medium grained, trace po, foliated	FC
K17-450	44.1	3710	3620	3760	1478	947	3696.667	2.783427	10.2894	RHYv, quartz-sericite, fine to medium grained, trace po, foliated	FC
K17-450	45.0	2880	3070	3010	1893	1215	2986.667	2.792035	8.338879	RHYv, quartz-sericite, fine to medium grained-rare medium strained lapilli, wispy to patchy quartz-po-disseminated py, quartz veinlet, foliated	FC
K17-450	46.0	2790	2840	2770	2293	1467	2800	2.776029	7.772881	RHYv, quartz-sericite, fine to medium grained, wispy quartz py-po -disseminated py-po, foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-450	47.1	3190	3110	3050	1477	967	3116.667	2.896078	9.026111	RHYv, quartz-sericite, medium strained lapilli-well sorted, elongated disseminated po, well foliated	FC
K17-450	48.1	2170	2240	2060	1886	1194	2156.667	2.725434	5.877852	RHYc, quartz-sericite, silica banded-possible rubble size elongated clasts, py-po in foliation, well foliated	FC
K17-450	49.0	3340	3500	3540	2009	1317	3460	2.903179	10.045	RHYv, quartz-sericite-biotite banded, well foliated, weakly fractured-biotite infill	FC
K17-450	50.3	2510	2430	2480	1681	1095	2473.333	2.868601	7.095006	RHYv, sericite-quartz, fine grained sericite,-wavy quartz bands, disseminated and wispy po-lesser py, foliated	FC
K17-450	51.0	2160	2130	2110	2167	1374	2133.333	2.732661	5.829676	RHY, quartz-sericite-abundant foliaform py band, well foliated	FC
K17-450	52.0	2450	2460	2510	1881	1202	2473.333	2.77025	6.851753	RHYv, quartz=sericite, medium, strained lapilli-poorly sorted, quartz-py wispy bands, wispy and disseminated po, foliated	FC
K17-450	54.0	2660	2740	2750	1792	1144	2716.667	2.765432	7.512757	RHYv, quartz-sericite, po disseminated-trace py, weakly foliated	FC
K17-450	Calibration	2720					2720			Stop 12:00	
K17-450	Calibration	2720					2720			Start 13:00	
K17-450	55.0	2680	2570	2650	2450	1570	2633.333	2.784091	7.331439	RHYv, quartz-sericite, poorly sorted lapilli of clast fragments, py-po patches, and disseminated (5%), poorly foliated	FC
K17-450	56.2	2650	2780	2670	2088	1330	2700	2.754617	7.437467	RHYv, quartz-sericite, quartz-dolomite bands and patches, disseminated and patchy po, secondary foliation weakly developed	FC
K17-450	57.0	3280	3220	3230	2177	1388	3243.333	2.759189	8.948969	RHYc, quartz-sericite, curdy texture, recessionary foliation and crenulated cleavage weakly developed	FC
K17-450	58.1	3650	3480	3330	2307	1487	3486.667	2.813415	9.809439	RHYc, quartz-sericite disseminated and wispy banded po, wavy silicic bands, secondary foliation weakly developed, moderately fractured-py infill	FC
K17-450	59.1	3120	3340	3100	1712	1092	3186.667	2.76129	8.799312	RHYv, quartz-sericite, lapilli or crystal ghosts, disseminated po, poorly foliated	FC
K17-450	60.0	3390	3460	3310	1883	1204	3386.667	2.773196	9.39189	RHYv, quartz-sericite, rare lapilli, po disseminated, poorly foliated	FC
K17-450	61.0	3720	3510	3450	2350	1506	3560	2.78436	9.912322	RHYv, quartz-sericite, clast-crystal ghosts, secondary foliation poorly developed, possibly pseudo fragmental texture	FC
K17-450	62.2	3090	3080	3160	1755	1123	3110	2.776899	8.636155	RHYv, quartz-sericite, clast-crystal ghosts, wavy glassy quartz-po bands-disseminated py, secondary foliation poorly developed-pseudo fragmental texture	FC
K17-450	63.0	3760	3410	3510	1955	1251	3560	2.776989	9.88608	RHYv, quartz-sericite, abundant py-po patches associated with glassy-grey quartz, secondary foliation poorly developed	FC
K17-450	64.0	3610	3820	3760	2415	1538	3730	2.753706	10.27132	RHYv, quartz-sericite, wavy silicic bands, secondary foliation poorly developed, pseudo fragmental to curdy texture	FC
K17-450	65.1	2410	3360	3450	1477	939	3073.333	2.745353	8.437385	RHYv, quartz-sericite, chlorite-calcite blebs, possibly clast-crystal ghosts, disseminated po. poorly developed foliation	FC
K17-450	67.0	3110	3080	2980	1997	1277	3056.667	2.773611	8.478005	RHYv, quartz-sericite, chlorite-calcite blebs, disseminated po, poorly developed foliation	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-450	68.1	3660	3630	3680	1328	852	3656.667	2.789916	10.20179	RHYv, quartz-sericite, trace disseminated po, poorly developed foliation	FC
K17-450	69.1	3390	3670	3330	2619	1698	3463.333	2.843648	9.848502	RHY, quartz-sericite-black/dark green mice wavy bands, folded, po disseminated, quartz blebs, heterogeneous-deformed, secondary foliation poorly developed	FC
K17-450	70.1	2810	2750	2790	1445	929	2783.333	2.800388	7.794412	RHY, quartz-sericite-lesser fine grained biotite, quartz blebs, heterogeneous-deformed, secondary foliation poorly developed	FC
K17-450	71.1	3350	3270	3230	1641	1055	3283.333	2.800341	9.194454	RHYv, quartz-sericite, lapilli-crystal ghosts, patchy and disseminated po, secondary foliation poorly developed	FC
K17-450	72.0	3250	3920	3330	1760	1109	3500	2.703533	9.462366	RHYc, quartz-sericite, wavy silicic bands,-curdy texture poorly developed, quartz-py-po patches, shallow angle wavy foliation to core axis	FC
K17-450	73.1	3120	3160	3290	2007	1296	3190	2.822785	9.004684	RHYc, quartz-sericite, clast ghosts, po-lesser py disseminated, secondary foliation very poorly developed	FC
K17-450	74.3	2810	2990	2880	2450	1590	2893.333	2.848837	8.242636	RHYc , quartz-sericite, clast ghosts, po-py bands, secondary foliation very poorly developed	FC
K17-450	75.2	2600	2640	2700	1976	1252	2646.667	2.729282	7.223499	RHYv, quartz-sericite, poorly sorted clasts-crystals-medium strained, disseminated po, late thin undeformed veinlet along the core axis, calcite-biotite infill, poorly foliated	FC
K17-450	76.0	2950	3080	3240	1950	1241	3090	2.750353	8.49859	RHYc, quartz-sericite, pseudo fragmental to poorly developed curdy texture, secondary foliation, wavy quartz-py-po bands, poorly foliated	FC
K17-450	77.1	2940	2960	2950	1328	850	2950	2.778243	8.195816	RHYv, quartz-sericite, quartz py-po patches, medium strained clasts (lapilli), very poorly developed secondary foliation	FC
K17-450	78.0	2610	2670	2680	1908	1221	2653.333	2.777293	7.369083	RHYv, quartz-sericite, quartz py-po patches, medium strained clasts (lapilli), poorly developed secondary foliation	FC
K17-450	79.0	2280	2290	2250	1857	1184	2273.333	2.759287	6.272779	RHYv, quartz-sericite, silicic bands, elongated disseminated po, well foliated	FC
K17-450	80.1	2850	3010	2990	1846	1199	2950	2.853168	8.416847	RHY, quartz-sericite-abundant py-po (10-15% locally), po and calcite-po veinlets crosscutting foliation,	FC
K17-450	81.0	2420	2470	2440	1866	1193	2443.333	2.77266	6.774532	RHYc, quartz-sericite, abundant quartz-po-py thin veinlets, and py-po disseminated, well foliated	FC
K17-450	82.0	3210	3430	3270	2333	1502	3303.333	2.807461	9.273979	RHYc, quartz-sericite, abundant po disseminated, wispy quartz bands, foliated	FC
K17-450	83.2	4110	3960	4070	1712	1105	4046.667	2.820428	11.41333	RHYc, quartz-sericite, disseminated po-lesser py, poorly developed secondary foliation	FC
K17-450	84.0	2490	2440	2730	2114	1359	2553.333	2.8	7.149333	RHYc, quartz-sericite, disseminated po-lesser py, poorly developed secondary foliation, thin open fracture perpendicular to core axis	FC
K17-450	85.0	3350	3280	3200	2081	1340	3276.667	2.808367	9.202083	RHYc, quartz-sericite, disseminated po-lesser py, very poorly developed foliation	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-450	86.1	3000	3750	3890	1774	1137	3546.667	2.784929	9.877216	RHYc, quartz-sericite, disseminated po, very poorly developed foliation	FC
K17-450	87.0	3930	4020	3810	1649	1058	3920	2.790186	10.93753	RHYc, quartz-sericite, disseminated po, wavy silicic band, poorly developed secondary foliation	FC
K17-450	Calibration	2720					2720			Start 15:30	
K17-450	88.0	3550	3840	3810	1800	1157	3733.333	2.799378	10.45101	RHYc, quartz-sericite, wavy silicic bands-po-sphalerite, disseminated po, secondary foliation poorly developed	FC
K17-450	89.3	3190	3160	3060	2160	1383	3136.667	2.779923	8.719691	RHYc, quartz-sericite, quartz-py patches, possibly clasts-crystal fragments poorly developed secondary foliation,	FC
K17-450	90.0	4120	4490	4200	2240	1425	4270	2.748466	11.73595	RHY, quartz-sericite-chlorite in fracture, py and po patches, wispy laminated chlorite (crosscutting discontinuous veinlet set-5/10cm), tiger texture	FC
K17-450	91.3	3960	4120	4180	1425	917	4086.667	2.805118	11.46358	RHYc, quartz-sericite, quartz-po-lesser py patches,, disseminated po, rare possibly clasts-crystals, very poorly foliated	FC
K17-450	92.2	3610	3160	3090	1669	1072	3286.667	2.795645	9.188353	RHYc, quartz-sericite, quartz-po-lesser py patches, disseminated po, trace sphalerite-galena, possibly clasts-crystal fragments, weakly foliated	FC
K17-450	92.7	3760	3820	3870	1616	1032	3816.667	2.767123	10.56119	RHYc, quartz-sericite, abundant deformed quartz-py-lesser po patches, two foliations, crenulated cleavage weakly developed	FC
K17-450	93.4	2860	2020	2250	1651	1048	2376.667	2.737977	6.507258	RHY, quartz-sericite, quartz-py-silvery sericite bands, secondary sericitization, well foliated, crosscutting veinlet set weakly sheared-horse tail texture	FC
K17-450	96.2	3380	3550	3640	1666	1065	3523.333	2.772047	9.766844	RHYc, quartz-sericite, rare crystal ghosts, quartz-po-py wispy foliaform bands, foliated	FC
K17-450	97.2	3790	3720	3770	2368	1512	3760	2.766355	10.4015	RHYc, quartz-sericite, wispy quartz-po-py bands, disseminated po, foliated	FC
K17-450	98.1	2730	2770	2730	1885	1207	2743.333	2.780236	7.627114	RHYc or crystal tuff, quartz-sericite, disseminated po, secondary foliation weakly developed	FC
K17-450	99.0	2980	3670	3940	2212	1420	3530	2.792929	9.85904	RHYc, quartz-sericite, wispy and disseminated po-py, foliated, weakly fractured	FC
K17-450	100.0	3500	3520	3040	1806	1154	3353.333	2.769939	9.288528	RHYc, quartz-sericite, abundant wispy and disseminated po, foliated	FC
K17-450	101.0	3270	3290	3330	2400	1554	3296.667	2.836879	9.352246	RHYc, quartz-sericite, abundant disseminated po, secondary foliation and poorly developed crenulation cleavage	FC
K17-450	102.3	4170	3970	4340	2650	1719	4160	2.846402	11.84103	RHYc, quartz-sericite, abundant disseminated po, secondary foliation and poorly developed crenulation cleavage	FC
K17-450	104.3	4370	4760	4340	1807	1166	4490	2.819033	12.65746	RHYc, quartz-sericite, abundant disseminated py-po, secondary foliation and poorly developed crenulation cleavage	FC
K17-450	105.1	4980	4900	4870	1414	910	4916.667	2.805556	13.79398	RHYc, quartz-sericite, abundant wispy po (5-10%), secondary foliation and poorly developed crenulation cleavage	FC
K17-450	106.0	3870	3780	3280	1760	1142	3643.333	2.847896	10.37584	RHYc, quartz-sericite, abundant wispy po (5-10%), secondary foliation and poorly developed crenulation cleavage	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-450	107.1	4970	5020	4980	1793	1150	4990	2.788491	13.91457	RHYc, quartz-sericite, abundant wispy po (5-10%), secondary foliation and poorly developed crenulation cleavage	FC
K17-450	108.1	4550	4100	4480	1610	1034	4376.667	2.795139	12.23339	RHYc, quartz-sericite, abundant wispy po (5-10%), secondary foliation and poorly developed crenulation cleavage	FC
K17-450	110.2	4760	4810	4810	2007	1295	4793.333	2.81882	13.51154	RHYc, quartz-sericite, disseminated py-po (5-10%), secondary foliation and poorly developed crenulation cleavage	FC
K17-450	111.0	3430	3570	4050	2186	1384	3683.333	2.725686	10.03961	RHY containing disseminated py, crosscut by irregular massive quartz-lesser calcite vein, py-po mineralized, muscovite altered halo	FC
K17-450	112.4	1800	1820	2030	1506	963	1883.333	2.773481	5.223389	MDSc, quartz-sericite-carbonaceous banded, clay intercalated within the foliation, disseminated po, well foliated	FC
K17-450	113.4	3610	3610	3750	1361	873	3656.667	2.788934	10.1982	MDSc, sericite-graphite-quartz, disseminated po, secondary foliation well marked, crenulation cleavage weakly developed	FC
K17-450	115.0	4180	4140	3920	1469	946	4080	2.808795	11.45989	MDSc, quartz-graphite-sericite, disseminated po, well foliated	FC
K17-450	115.8	2630	2670	2840	1736	1113	2713.333	2.786517	7.560749	MDSc, quartz-graphite-lesser-biotite, disseminated po, weakly fractured-calcite infill	FC
K17-450	116.7	2540	2480	2660	1984	1272	2560	2.786517	7.133483	MDSc, quartz-sericite- weakly carbonaceous, fine grained disseminated po, fine crystal tuff texture, equigranular, foliated	FC
K17-450	118.0	2500	2340	2190	1469	949	2343.333	2.825	6.619917	MDSc, quartz-sericite carbonaceous, fine grained po disseminated, crystal fragments, crenation cleavage-deformed foliated, very weakly fractured	FC
K17-450	120.0	4640	4370	4010	1582	1011	4340	2.770578	12.02431	RHY, quartz-sericite, fine grained po disseminated, quartz pod or silica flooded, fractured-calcite infill	FC
K17-450	121.1	3490	3180	3420	1970	1260	3363.333	2.774648	9.332066	MDSc or crystal tuff, quartz-sericite carbonaceous, fine grained po disseminated, graphitic bands, foliation obscured by crenation cleavage	FC
K17-450	122.2	3870	2960	3140	1911	1217	3323.333	2.753602	9.151138	MDSc or crystal tuff, quartz-sericite carbonaceous, fine grained po disseminated, graphitic bands, primary foliation obscured by crenation cleavage,	FC
K17-450	123.1	2340	2310	2290	1307	833	2313.333	2.757384	6.378748	MDSc or crystal tuff, quartz-sericite carbonaceous, fine grained po disseminated, graphitic patch, crenulation cleavage, foliated	FC
K17-450	Calibration	2720					2720			Stop 18:00	
K17-450	Calibration	2730					2730			Start 9:00 am	
K17-450	124.3	2000	3210	3350	1387	900	2853.333	2.848049	8.126434	MDScw, quartz-sericite weakly carbonaceous, muscovite altered, rare disseminated py, wavy foliation, micro fractured	FC
K17-450	125.0	2620	2930	2810	1524	968	2786.667	2.741007	7.638273	RHYc, quartz-muscovite, strongly altered, elongated disseminated py-po patches, weakly foliated, moderately fractured	FC
K17-450	125.8	3060	2900	2960	2706	1730	2973.333	2.772541	8.243689	RHYc, quartz-muscovite, strongly altered, wavy py-po stringers, silica bands, secondary foliation poorly marked, weakly fractured	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-450	127.0	2370	2400	2390	1904	1213	2386.667	2.755427	6.576286	RHYc, quartz-muscovite, strongly altered, silica bands, wispy po-disseminated py, foliated	FC
K17-450	128.2	2950	2630	2710	1206	767	2763.333	2.747153	7.591298	RHYc, quartz-muscovite, strongly altered, wavy po stringers, wavy foliation	FC
K17-450	129.0	2120	2070	2120	1857	1179	2103.333	2.738938	5.7609	RHYc, quartz-muscovite, moderately altered, wispy po-disseminated py, foliated, fractured and micro fractured	FC
K17-450	130.1	1980	1580	2020	2256	1428	1860	2.724638	5.067826	RHYc, quartz-muscovite, strongly altered, foliaform py stringers-disseminated po, quartz-calcite-py veinlets crosscutting foliation, foliated, micro fractured	FC
K17-450	132.2	2900	2940	2680	1933	1232	2840	2.757489	7.83127	RHYc, quartz-muscovite-sericite, moderately altered, abundant disseminated py, foliated, micro fractured	FC
K17-450	133.0	2210	2280	2360	2192	1393	2283.333	2.743429	6.264164	RHY, quartz-muscovite-sericite, weakly carbonaceous, strongly altered, patchy py-wispy po, quartz vein (5 cm) with muscovite alteration envelop, foliated	FC
K17-450	134.1	2150	2320	2230	1237	783	2233.333	2.72467	6.085095	RHY, quartz-sericite-muscovite, weakly carbonaceous, moderately altered, disseminated py-po, poorly foliated, micro fractured	FC
K17-450	135.1	1980	1790	1820	1869	1224	1863.333	2.897674	5.399333	RHY, quartz-muscovite-sericite, moderately altered, abundant py-po, irregular foliation and weak crenulation cleavage	FC
K17-450	136.2	1930	2180	2000	2318	1470	2036.667	2.733491	5.567209	RHY, quartz-muscovite-sericite, strongly altered, disseminated py, quartz vein/pod showing intense muscovite alteration halo-fractured-glassy, foliation obscured by alteration	FC
K17-450	137.5	2590	2420	2640	1937	1230	2550	2.739745	6.986351	RHY, quartz-muscovite-sericite, strongly altered, abundant disseminated py, poorly foliated, micro fractured, weak boundinage	FC
K17-450	Calibration	2720					2720			Stop 10:00 am	
K17-450	138.2	3780	2720	3440	1851	1171	3313.333	2.722059	9.019088	RHY, quartz-muscovite-sericite, strongly altered, disseminated fine grained py, foliated, fractured	FC
K17-450	139.2	2880	2910	2740	1671	1051	2843.333	2.695161	7.663242	RHY, quartz-muscovite-sericite, strongly altered, disseminated fine grained py, foliation obscured by alteration	FC
K17-450	141.0	3050	3280	2930	2632	1681	3086.667	2.767613	8.542699	MDScw, quartz-sericite weakly carbonaceous, muscovite altered, rare disseminated po-py, wavy foliation-crenulation cleavage, weakly fractured	FC
K17-450	141.8	3030	2990	2710	2986	1909	2910	2.772516	8.068022	RHY, quartz-sericite-muscovite, moderately altered, disseminated and patches po-py, foliated	FC
K17-450	143.2	2790	2560	2860	1838	1160	2736.667	2.710914	7.418869	RHYc, quartz-muscovite, strongly altered, silicic bands, rare disseminated po, banded-foliated	FC
K17-450	147.2	2810	2500	2590	2067	1317	2633.333	2.756	7.257467	RHYc, quartz-muscovite, strongly altered, po-py stringers, wavy silicic bands-foliated	FC
K17-450	145.0	3370	3290	3370	1443	964	3343.333	3.012526	10.07188	RHY, quartz-sericite, heavily disseminated sulphides, deformed foliation,	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-450	146.3	5150	4090	4040	2074	1387	4426.667	3.018923	13.36377	OJ, patchy to semi-massive sulphide, strong proximal chlorite-cordierite alteration	FC
K17-450	147.0	5540	5380	5300	1666	1077	5406.667	2.828523	15.29288	OJ, patchy sulfide, intense chlorite-cordierite alteration, tourmaline blebs	FC
K17-450	148.0	5620	4660	5660	2665	1864	5313.333	3.327091	17.67794	OJ, patchy to laminated sulphide, intense chlorite-cordierite (partially tourmaline replaced) alteration	FC
K17-450	149.1	5420	5600	5380	2413	1871	5466.667	4.45203	24.33776	OB, massive sulphide, weakly laminated	FC
K17-450	150.0	5620	5120	5210	2022	1564	5316.667	4.414847	23.47227	OB, massive sulphide, weakly laminated	FC
K17-450	151.2	6170	6000	5930	2511	1935	6033.333	4.359375	26.30156	OB, massive sulphide, weakly laminated, rare quartz blebs	FC
K17-450	152.2	4720	4340	4600	2566	1992	4553.333	4.470383	20.35515	OB, massive sulphide, weakly laminated, possibly barite in matrix (5%)	FC
K17-450	153.0	4120	4320	3970	4357	3400	4136.667	4.552769	18.83329	OB, massive sulphide, quartz veinlet, highly fractured	FC
K17-450	154.0	4440	4560	4440	3320	2602	4480	4.623955	20.71532	OB, massive sulphide, weakly laminated, weakly fractured	FC
K17-450	155.1	4450	4190	4450	3016	2325	4363.333	4.364689	19.04459	OB, massive sulphide, laminated, quartz (possibly aggregated cordierite) blebs	FC
K17-450	156.0	4440	4660	4790	4122	3210	4630	4.519737	20.92638	OB, massive sulphide, laminated, quartz blebs	FC
K17-450	156.9	2950	3320	3050	1645	1181	3106.667	3.545259	11.01394	OA, semi massive sulphide, chlorite and rhyolitic texture relic in matrix, strongly laminated	FC
K17-450	158.2	6250	6220	6170	4094	2664	6213.333	2.862937	17.78838	OA, massive sulphide, laminated, quartz blebs	FC
K17-450	159.1	4420	4270	4360	2383	1860	4350	4.556405	19.82036	OB, massive sulphide, weakly laminated, rare quartz clots, possibly barite in matrix (3%)	FC
K17-450	Calibration	2710					2710			Stop 12:00	
K17-450	160.0	4970	4760	4780	3513	2725	4836.667	4.458122	21.56245	OB, massive sulphide, poorly laminated, quartz blebs, weakly fractured	FC
K17-450	161.1	5120	5100	4950	3204	2460	5056.667	4.306452	21.77629	OB, massive sulphide, abundant quartz blebs, poorly laminated	FC
K17-450	162	3380	3300	3320	2970	2303	3333.333	4.452774	14.84258	OB, massive sulphide, quartz blebs, possibly barite in matrix (10%), weakly laminated	FC
K17-450	163.1	5300	5430	5540	2309	1763	5423.333	4.228938	22.93494	OB, massive sulphide, po-py tourmaline patch, rhyolite relics, poorly laminated	FC
K17-450	164.2	6200	6200	6200	2469	1936	6200	4.63227	28.72008	OA, massive sulphide, laminated	FC
K17-450	164.8	3420	3280	4590	1697	1200	3763.333	3.414487	12.84985	Contact zone between coarse grained laminated massive sulphide and foliated altered rhyolite, quartz-cordierite patch at contact	FC
K17-450	166	2910	3210	2920	2186	1401	3013.333	2.784713	8.39127	RHY, quartz-sericite-muscovite, weakly altered, disseminated py, foliated	FC
K17-450	167.1	3570	3910	3870	1395	915	3783.333	2.90625	10.99531	OI, chlorite-sericite-quartz-lesser biotite porphyroblasts, chlorite altered rhyolite schist, disseminated sulphide, quartz blebs, poorly foliated	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K17-450	168	4590	4890	4480	1563	1042	4653.333	3	13.96	OI, chlorite-sericite-quartz-rare biotite porphyroblasts, strongly chlorite altered rhyolite schist, disseminated sulphide, poorly foliated	FC
K17-450	169	3150	3730	3230	1737	1126	3370	2.842881	9.580507	RHY, quartz-sericite-chlorite, altered rhyolite schist, disseminated sulphide, deformed quartz vein (2 cm), foliated, weak crenulation cleavage	FC
K17-450	170.2	4100	4020	3920	1849	1197	4013.333	2.83589	11.38137	RHY, quartz-sericite-chlorite, chlorite altered rhyolite schist, disseminated sulphide, sulphide veinlet, weakly foliated	FC
K17-450	171	2290	2380	2180	1791	1159	2283.333	2.833861	6.470649	OI, quartz-chlorite-sericite-wispy laminated calcite, chlorite altered rhyolite schist, laminated and disseminated sulphide, foliated	FC
K17-450	172.0	4040	4090	3960	2151	1376	4030	2.775484	11.1852	MAFi, chlorite-wispy laminated calcite-lesser quartz, rare calcite veinlets, well foliated	FC
K17-450	173.1	3830	3840	3550	2412	1547	3740	2.788439	10.42876	MAFi, chlorite-wispy laminated calcite-lesser quartz-biotite porphyroblasts (2%), rare py, foliaform calcite veinlet, well foliated	FC
K17-450	174.0	3770	3670	3500	1801	1121	3646.667	2.648529	9.658304	Strongly silicified MAFi, quartz-lesser muscovite; could be proximal to RHYi (silica-muscovite alteration), quartz veinlet relic, moderately fractured, foliated	FC
K17-450	176.7	3230	3480	3420	1360	887	3376.667	2.875264	9.708809	MAFi, chlorite-biotite-calcite-possibly talc altered, calcite veinlets, well foliated	FC
K17-450	177.2	3920	3750	3770	1996	1300	3813.333	2.867816	10.93594	MAFi, chlorite-biotite-calcite-possibly talc altered, calcite veinlets or fractures calcite infill crosscutting foliation, irregular foliation	FC
K17-450	178.3	4560	4560	4780	2003	1316	4633.333	2.915575	13.50883	MAFi, chlorite-biotite-wispy laminated calcite, foliated	FC
K17-450	179.2	4460	4640	4490	1271	825	4530	2.849776	12.90948	MAFi, biotite-calcite-chlorite-lesser quartz, strongly calcite veined, poorly foliated	FC
K17-450	180.0	5030	4920	5000	2653	1753	4983.333	2.947778	14.68976	MAFi, biotite-chlorite-calcite-lesser quartz, quartz calcite veinlets and patches, heterogeneous texture, weakly foliated	FC
K17-450	181.0	5470	5560	5540	2061	1350	5523.333	2.898734	16.01068	MAFi, calcite-biotite-quartz-chlorite-sericite, patchy calcite, foliated	FC
K17-450	181.9	5580	5470	5540	1645	1078	5530	2.901235	16.04383	MAFi, calcite-biotite-quartz-chlorite-sericite, patchy calcite, weakly foliated	FC
K17-450	Calibration	2710					2710			Stop 14:35	
	Calibration	2700					2700			Beginning of hole calibration	
K94-017	18.7	3930	4000	4210	801	504	4046.667	2.69697	10.91374	Calcite vein	FC
K94-017	21.8	4130	4110	4190	1122	725	4143.333	2.826196	11.70987	Fine grained ash tuff, healed fractures	FC
K94-017	22.8	2340	2520	2130	691	442	2330	2.7751	6.465984	Mudstone, Quartz+Calcite vein	FC
K94-017	27.5	2230	2210	2030	802	520	2156.667	2.843972	6.133499	Mudstone, moderately deformed, Quartz+Calcite vein	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K94-017	30	1490	1490	1560	807	518	1513.333	2.792388	4.225813	Mafic, brittle and ductile deformation, Quartz+Calcite veins	FC
K94-017	31.3	1770	1830	1660	940	605	1753.333	2.80597	4.919801	Mafic, deformed globs of Quartz+Calcite	FC
K94-017	34.5	1710	1850	1720	776	486	1760	2.675862	4.709517	Laminated mudstone with oxidized fragments	FC
K94-017	37.3	2250	2200	2310	938	603	2253.333	2.8	6.309333	Mudstone with Quartz+Calcite foliations	FC
K94-017	39.2	1980	2120	2050	871	557	2050	2.773885	5.686465	Mudstone with Calcite foliations, moderately foliated	FC
K94-017	40	2240	2330	2240	833	533	2270	2.776667	6.303033	Mudstone with Calcite veinlets along bedding plane, also irregular Calcite	FC
K94-017	41	2450	2450	2640	831	536	2513.333	2.816949	7.079932	Mafic, globs of pyrrhotite & Biotite	FC
K94-017	42	2400	2430	2410	1260	802	2413.333	2.751092	6.639301	Laminated mudstone, deformed Calcite veins	FC
K94-017	44.7	3280	3230	3280	1527	984	3263.333	2.812155	9.176998	Mafic Biotite + Chlorite + Calcite	FC
K94-017	45.2	2720	2870	2880	1461	951	2823.333	2.864706	8.08802	Ash tuff, Calcite foliation, irregular	FC
K94-017	48.8	2840	2950	2900	1649	1066	2896.667	2.828473	8.193145	Ash tuff, deformed Calcite + Chlorite veinlets	FC
K94-017	50.3	3780	3900	3720	1135	729	3800	2.795567	10.62315	Laminated mudstone, irregular Calcite healed fracture	FC
K94-017	51	2330	2310	2390	914	588	2343.333	2.803681	6.569959	Laminated altered mudstone, Chlorite + Calcite + Quartz present	FC
K94-017	52	3130	3130	3230	1122	724	3163.333	2.819095	8.917739	Mafic pelite with deformed Quartz/Calcite vein	FC
K94-017	53	3260	3160	3050	1386	901	3156.667	2.857732	9.020907	Deformed mudstone with Quartz/Calcite veins	FC
K94-017	53.9	2630	2650	2530	1126	726	2603.333	2.815	7.328383	Deformed Laminated mudstone, intercalated calcite	FC
K94-017	54.6	2820	2690	2580	978	631	2696.667	2.818444	7.600403	Deformed Laminated mudstone, intercalated calcite	FC
K94-017	55.6	2460	2540	2650	1092	700	2550	2.785714	7.103571	Deformed Laminated mudstone, intercalated calcite	FC
K94-017	56.8	2770	2960	2750	1263	813	2826.667	2.806667	7.933511	Deformed Laminated mudstone, intercalated calcite	FC
K94-017	58	3310	3210	3500	824	526	3340	2.765101	9.235436	Mudstone, minor calcite	FC
K94-017	59.1	3010	3110	3160	1232	800	3093.333	2.851852	8.821728	Mudstone, deformed Calcite	FC
K94-017	61	3080	3070	3110	1260	818	3086.667	2.850679	8.799095	Ash tuff, blebs of Calcite, very weak foliation	FC
K94-017	63.7	2850	2880	2960	914	592	2896.667	2.838509	8.222215	Ash tuff, weak foliation, Calcite banding	FC
K94-017	64	3070	3040	2870	791	511	2993.333	2.825	8.456167	Laminated mudstone, Calcite bands with Carboniferous layers	FC
K94-017	66.4	3160	3000	2780	913	597	2090	2.889241	6.038513	Mafic, deformation, Biotite + Calcite	FC
K94-017	69	2160	2330	2400	1363	878	2296.667	2.810309	6.454344	Strong foliation, mafic, Calcite banding	FC
K94-017	69.8	2410	2800	2790	1011	656	2666.667	2.847887	7.594366	Tuff, deformed fractured Calcite bands	FC
K94-017	71.6	2140	2210	2230	1260	803	2193.333	2.757112	6.047265	Tuff with deformed fractured Calcite bands, moderate foliation	FC
K94-017	73.8	2160	2200	2260	841	547	2206.667	2.860544	6.312268	Tuffaceous with Quartz+Calcite veins	FC
K94-017	74.7	2420	2530	2420	1319	852	2456.667	2.824411	6.938637	Mudstone, deformed Calcite band	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K94-017	77.7	1540	1860	1580	835	535	1660	2.783333	4.620333	Laminated mudstone, Calcite blebs	FC
K94-017	78.6	2440	2620	2530	876	555	2530	2.728972	6.904299	Mudstone with graphitic layers	FC
K94-017	80.8	2110	2130	2140	940	589	2126.667	2.678063	5.695347	Laminated mudstone, minor Calcite banding, carbonaceous layers	FC
K94-017	81	2730	2850	2760	1258	793	2780	2.705376	7.520946	Laminated mudstone, minor Calcite banding, carbonaceous layers	FC
K94-017	82.1	2390	2000	2150	1443	913	2180	2.722642	5.935358	Highly carbonaceous laminated deformed mudstone, Calcite banding	FC
K94-017	83.1	3630	4300	3620	1147	752	3850	2.903797	11.17962	Intermediate dyke with Biotite and Calcite veins	FC
K94-017	84.4	3350	3640	3640	1088	693	3543.333	2.75443	9.759865	Laminated mudstone with Calcite bands, Carbonaceous layers.	FC
K94-017	85.2	3160	3440	3540	795	507	3380	2.760417	9.330208	Laminated mudstone with Calcite bands, Carbonaceous layers.	FC
K94-017	86.2	2360	2570	2240	1541	995	2390	2.822344	6.745403	RHY lapilli with Quartz+Biotite+Sulphides+Tourmaline vein at high angle to core axis	FC
K94-017	87.2	3550	3690	3780	1572	1001	3673.333	2.753065	10.11292	RHY lapilli, no foliation, minor fractures (oxidized)	FC
K94-017	88.6	3170	3110	3230	1087	699	3170	2.801546	8.880902	RHY, Calcite blobs, highly oxidized	FC
K94-017	89.9	3690	4370	4180	1150	736	4080	2.777778	11.33333	RHY, Calcite blobs, highly oxidized	FC
K94-017	90.7	2770	3380	2960	1106	714	3036.667	2.821429	8.567738	RHY lapilli, Calcite	FC
K94-017	91.6	4250	4230	4300	1154	734	4260	2.747619	11.70486	Carbonaceous mudstone	FC
K94-017	92	2380	2780	2470	974	619	2543.333	2.743662	6.978047	Mudstone with graphitic layers	FC
K94-017	93.3	3430	2840	3250	829	523	3173.333	2.70915	8.597037	Laminated mudstone, graphitic layers, Calcite blebs	FC
K94-017	94.7	3150	3230	3210	1429	929	3196.667	2.858	9.136073	Intermediate intrusion, speckled Biotite	FC
K94-017	95.7	2760	2780	2810	759	488	2783.333	2.800738	7.795387	Felsic intrusion, weak foliation	FC
K94-017	96.5	2490	2570	2460	839	529	2506.667	2.706452	6.784172	Laminated mudstone, Calcite layers, deformed	FC
K94-017	97.3	2950	2750	2860	949	615	2853.333	2.841317	8.107226	Felsic intrusion, weak foliation, Calcite	FC
K94-017	98	3580	3600	3640	1039	671	3606.667	2.82337	10.18295	Felsic intrusion, no foliation, Calcite	FC
K94-017	100	3690	3810	3810	967	614	2578.2	2.739377	7.062661	Laminated mudstone, Carbonaceous & Calcite bands, Quartz fracture	FC
K94-017	101.7	1710	2130	2250	978	627	2030	2.786325	5.656239	Deformed Laminated mudstone, contact with intermediate intrusion	FC
K94-017	102.5	4520	4590	4600	1300	842	4570	2.838428	12.97162	Intermediate intrusion, Calcite blebs	FC
K94-017	103.8	4480	4090	4530	1212	785	4366.667	2.838407	12.39438	Contact between intermediate intrusion & Calcite phyric intrusion	FC
K94-017	105	2910	3020	2910	853	536	2946.667	2.690852	7.929043	Laminated mudstone, Carbonaceous layers, deformed Calcite	FC
K94-017	105.9	2420	2340	2270	804	508	2343.333	2.716216	6.365	Laminated mudstone, Carbonaceous layers with Calcite	FC

Hole ID	From (m)	Vp1 (m/s)	Vp2 (m/s)	Vp3 (m/s)	Mass Dry (g)	Mass Wet (g)	Vp_avg (m/s)	SG	AI	Comments	Core Type
K94-017	107	2810	2980	2920	801	506	2903.333	2.715254	7.883288	Laminated mudstone, Carbonaceous layers with Calcite	FC
K94-017	108	2590	2660	2650	1419	893	2633.333	2.697719	7.103992	Laminated mudstone, deformed Carbonaceous + Calcite layers	FC
K94-017	Calibration	2710					2710			End of hole 18:33	

Appendix Q: Geological Drill Logs

This appendix contains all of the drill logs generated from the 2017 drilling program, which includes exploration, hydrogeological and geotechnical holes. Drill logs are placed in hole number order with the first page of each log starting on the page number indicated in Table Q-1.

Table Q-1: Table of contents for 2017 diamond drill hole logs in this appendix

Hole ID	Length (m)	Target	Purpose	Core Storage Location	Page Number	Number of Pages
K17-420	200	ABM	Geotechnical	KZK Camp	1	12
K17-421	40.65	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	13	4
K17-422	221	ABM	Geotechnical	KZK Camp	18	12
K17-423	40.79	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	29	2
K17-424	170	ABM	Geotechnical	KZK Camp	31	10
K17-425	40.82	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	41	3
K17-426	28.9	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	44	3
K17-426B	40.48	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	47	2
K17-427	152	ABM	Geotechnical	KZK Camp	49	8
K17-428	40.62	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	57	4
K17-429	36.08	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	61	3
K17-430	182	ABM	Geotechnical	KZK Camp	64	11
K17-431	4.14	Infrastructure	Geotechnical	KZK Camp	75	1
K17-432	4.27	Infrastructure	Geotechnical	KZK Camp	76	1
K17-433	4.57	Infrastructure	Geotechnical	KZK Camp	77	1
K17-434	3.57	Infrastructure	Geotechnical	KZK Camp	78	1
K17-435	8.65	Infrastructure	Geotechnical	KZK Camp	79	1
K17-436	4.27	Infrastructure	Geotechnical	KZK Camp	80	1
K17-437	152	Krakatoa	Geotechnical	KZK Camp	81	5
K17-438	191	ABM	Geotechnical	KZK Camp	86	5
K17-439	120	ABM	Geotechnical	KZK Camp	91	5
K17-440	152	Krakatoa	Geotechnical	KZK Camp	96	9
K17-441	40.19	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	105	3
K17-442	39.98	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	108	3
K17-443	38.5	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	111	3
K17-444	43.97	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	114	2
K17-445	41.12	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	116	3
K17-446	39.66	Infrastructure	Geotechnical/Hydrogeological	KZK Camp	119	3
K17-447	452	Infrastructure	Exploration	KZK Camp	122	20
K17-448	1017	Infrastructure	Exploration	KZK Camp	142	56
K17-449	800	Infrastructure	Exploration	KZK Camp	198	31
K17-450	182	ABM	Exploration	KZK Camp	229	10
K17-451	11.12	Infrastructure	Geotechnical	KZK Camp	239	2
K17-452	40.53	Infrastructure	Geotechnical	KZK Camp	241	3
K17-453	11.3	Infrastructure	Geotechnical	KZK Camp	244	2
K17-454	11.19	Infrastructure	Geotechnical	KZK Camp	246	2
K17-455	12.8	Infrastructure	Geotechnical	KZK Camp	248	2
K17-456	11.21	Infrastructure	Geotechnical	KZK Camp	250	2

Hole ID	Length (m)	Target	Purpose	Core Storage Location	Page Number	Number of Pages
K17-457	11.29	Infrastructure	Geotechnical	KZK Camp	252	2
K17-458	41.3	Infrastructure	Geotechnical	KZK Camp	254	2
K17-459	41.3	Infrastructure	Geotechnical	KZK Camp	256	3
K17-460	40.55	Infrastructure	Geotechnical	KZK Camp	259	2
K17-461	42.8	Infrastructure	Geotechnical	KZK Camp	261	2
K17-462	42.8	Infrastructure	Geotechnical	KZK Camp	263	2
K17-463	12.22	Infrastructure	Geotechnical	KZK Camp	265	2
K17-464	40.39	Infrastructure	Geotechnical	KZK Camp	267	3
K17-465	10.62	Infrastructure	Geotechnical	KZK Camp	270	2
K17-466	15.05	Infrastructure	Geotechnical	KZK Camp	272	2

Total: 47 Holes 4928.70 m

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-420

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	6/24/2017
UTM Easting	414858.1094	Core Size:	HQ3	Azimuth:	50	Date Logging Complete:	6/28/2017
UTM Northing:	6815671.704	Casing Pulled?:	Yes	Dip:	-60	Drill Company:	New Age
UTM Elev. (m):	1395.538	Casing Depth (m):	6	Length (m):	200	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	6/23/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	6/26/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-420 was drilled to study the geotechnical properties of the proposed open pit high-wall. Optical and acoustic televiewer surveys were completed on the borehole.
Overburden extends to 4.47 m depth. The felsic volcanic and volcano-sedimentary package extends throughout the hole, with significant alteration from 141.55 m to 200 m (EOH). Disseminated to stringer sulfide (OJ; sphalerite + chalcopyrite + pyrite) occurs from 176 m to 185.57 m and massive sulfide (OC; pyrite + pyrrhotite + sphalerite + chalcopyrite) occurs from 185.57 m to 186.39 m. Moderate to strong muscovite alteration begins at 141.55 m and extends to 176 m, where strong proximal alteration (chlorite + cordierite + albite) alteration begins. The strong proximal alteration extends to 186.61 m and is associated with the disseminated to stringer mineralization and the massive sulfide. In the footwall of the mineralization moderate to strong muscovite alteration extends to 200 m (EOH).

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-60	50	0	50	PLND-LiDAR	Chris Hughes	6/24/2017		☑	
15	-59.6	162.1	21.7	183.8	EZ-TRAC	New Age	6/23/2017	30176	☐	
25	-61.1	24.9	21.7	46.6	EZ-TRAC	New Age	6/23/2017	58375	☑	
50	-62.6	27.6	21.7	49.3	EZ-TRAC	New Age	6/24/2017	58460	☑	
75	-63.7	29.7	21.7	51.4	EZ-TRAC	New Age	6/24/2017	58239	☑	
100	-64.2	31.4	21.7	53.1	EZ-TRAC	New Age	6/24/2017	57735	☑	
125	-64.8	33.2	21.7	54.9	EZ-TRAC	New Age	6/25/2017	57713	☑	
150	-65.2	33	21.7	54.7	EZ-TRAC	New Age	6/25/2017	58409	☑	
175	-65.3	34.6	21.7	56.3	EZ-TRAC	New Age	6/25/2017	58312	☑	
200	-65.4	34.4	21.7	56.1	EZ-TRAC	New Age	6/25/2017	58245	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.47**	**OVBN Overburden**									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

4.47 10.50 RHYvl Lapilli tuff

4.47 - 10.5: Light grey, well-foliated, matrix-supported, felsic lapilli tuff. Lapilli are primarily white, blebby siliceous clasts. Minor disseminated and blebby pyrrhotite.

<<Min: 4.47 - 143.9 1% Min: Pyrrhotite>> Variable density of disseminated to patchy PO +- PY.

<<Alt: 4.47 - 185.57 Trace Calcite>>

<<Struc: 4.82 - 4.82 Strong Joint (fracture)>>

<<Struc: 6.99 - 6.99 Strong Joint (fracture)>>

<<Struc: 7.44 - 7.44 Moderate dominant foliation>>

<<Struc: 8.2 - 8.2 Joint (fracture)>> Oxidized joint

<<Struc: 8.43 - 8.43 dominant foliation>> Muscovite cleavage

<<Struc: 8.44 - 8.44 Moderate dominant foliation>>

<<Struc: 9.45 - 9.45 Strong Joint (fracture)>>

10.50 11.40 RHYc Undifferentiated coherant rhyolite

10.5 - 11.4: Light grey to white, banded coherent rhyolite, with bands of siliceous material and muscovite cleavages.

<<Struc: 10.63 - 10.63 Strong Joint (fracture)>>

<<Struc: 10.71 - 10.71 Strong dominant foliation>>

11.40 12.95 RHYvl Lapilli tuff

11.4 - 12.95: Light grey, well-foliated, matrix-supported, felsic lapilli tuff. Lapilli are primarily white, blebby siliceous clasts. Minor disseminated and blebby pyrrhotite.

<<Struc: 12.85 - 12.85 Strong Joint (fracture)>>

12.95 14.60 RHYc Undifferentiated coherant rhyolite

12.95 - 14.6: Light grey to white, banded coherent rhyolite, with bands of siliceous material and muscovite cleavages.

<<Struc: 13.14 - 13.14 Moderate dominant foliation>>

14.60 17.30 RHYvl Lapilli tuff

14.6 - 17.3: Light grey, well-foliated, matrix-supported, felsic lapilli tuff. Lapilli are primarily white, blebby siliceous clasts. Minor disseminated and blebby pyrrhotite.

<<Struc: 14.9 - 14.9 Moderate dominant foliation>>

<<Struc: 16.28 - 16.28 Strong Joint (fracture)>>

<<Struc: 17 - 17 Orientation Lock Angle>> Lock angle between orientation mark at 17m and 20m

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

17.30 17.80 RHYc Undifferentiated coherant rhyolite

17.3 - 17.8: Light grey to white, banded coherent rhyolite, with bands of siliceous material and muscovite cleavages.

<<Struc: 17.6 - 17.6 Strong dominant foliation>>

17.80 20.35 RHYvl Lapilli tuff

17.8 - 20.35: Light grey, matrix-supported, felsic lapilli tuff with minor disseminated subhedral, medium to coarse grained sericite-after-feldspar crystals and siliceous blebby lapilli. ~5 cm thick olive-green fine grained layer occurs at 19 m, potentially a siltstone horizon (?).

<<Struc: 18.84 - 18.86 Moderate Joint (fracture)>>

<<Struc: 20 - 20 Orientation Lock Angle>> Lock angle between orientation mark at 20m and 23m

20.35 21.40 RHYc Undifferentiated coherant rhyolite

20.35 - 21.4: Light grey to white, banded coherent rhyolite, with bands of siliceous material and muscovite cleavages.

<<Struc: 20.9 - 20.9 Strong dominant foliation>>

<<Struc: 21.23 - 21.23 Strong Joint (fracture)>>

21.40 28.34 RHYv Undifferentiated Rhyolite volcaniclastic

21.4 - 28.34: Light grey, intercalated fine grained ash tuff and lapilli tuff. Local patches of coherent siliceous banded rhyolite. Fault zone from 27.25 to 28 m.

<<Struc: 23 - 23 Orientation Lock Angle>> Lock angle between orientation mark at 23m and 26m

<<Struc: 25.12 - 25.12 Strong Joint (fracture)>>

<<Struc: 25.19 - 25.19 Strong dominant foliation>>

<<Struc: 26.51 - 26.51 Strong Joint (fracture)>>

<<Struc: 26.56 - 26.56 Moderate dominant foliation>>

<<Struc: 27.25 - 28 Weak-Moderate Fault>> Broken zone with some fault gouge. Washed away core through this section (?)

28.34 33.45 RHYc Undifferentiated coherant rhyolite

28.34 - 33.45: Light grey, banded, siliceous rhyolite with siliceous bands and muscovite cleavages.

<<Struc: 29.22 - 29.22 Strong dominant foliation>>

<<Struc: 29.92 - 29.92 Strong Joint (fracture)>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 30.43 - 30.43 Strong dominant foliation>>

<<Struc: 30.57 - 30.57 Strong Joint (fracture)>>

<<Struc: 33.14 - 33.14 Strong Joint (fracture)>>

<<Struc: 33.19 - 33.19 Strong dominant foliation>>

33.45 35.82 SED Undifferentiated sedimentary rock

33.45 - 35.82: Light to medium grey, intercalated siltstone and sandstone. Siltstone is fine grained olive green sediments. Sandstone is coarse grained quartz and biotite clasts within a fine grained matrix. Normal grading exists, suggesting the core is right way up.

<<Struc: 33.45 - 33.5 Weak Fault>> Minor broken zone at contact between RHYc (HW) and SED (FW).

35.82 41.82 RHYvl Lapilli tuff

35.82 - 41.82: Light grey, felsic lapilli tuff. Lapilli are primarily siliceous blebs, minor calcareous lapilli, fine blebs of pyrrhotite +/- sphalerite.

<<Struc: 36.82 - 36.82 Strong Joint (fracture)>>

<<Struc: 36.95 - 36.95 Moderate dominant foliation>>

<<Struc: 40.72 - 40.72 Strong Joint (fracture)>>

<<Struc: 40.82 - 40.82 Strong dominant foliation>>

41.82 42.40 RHYc Undifferentiated coherant rhyolite

41.82 - 42.4: Light grey, curdy to banded, siliceous, coherent rhyolite. Cleavages of muscovite.

42.40 97.90 RHYvl Lapilli tuff

42.4 - 97.9: Large zone of light grey, felsic lapilli tuff, with matrix-supported blebby siliceous lapilli and disseminated to blebby pyrrhotite. Matrix is dominantly fine grained grey-coloured, muscovite.

<<Vein: 58 - 58.15 90% Quarzt-Chlorite-Carbonate 60 deg. >> Folded and crenulated massive quartz with blebby carbonate and chlorite.

<<Vein: 62.11 - 62.15 100% Quartz-Sulphide 40 deg. >> Quartz vein with blebby PO +/- CP. Cross-cuts foliation.

<<Vein: 85.94 - 86.3 100% Quartz-Sulphide 20 deg. >> Massive quartz vein with blebby PO

<<Vein: 96.28 - 96.31 100% Quartz 40 deg. >> Thin quartz vein cross-cutting foliation.

<<Vein: 96.91 - 97 100% Quartz-Sulphide 90 deg. >> Massive quartz vein with blebby sericite

<<Struc: 42.46 - 42.46 Strong dominant foliation>>

<<Struc: 42.62 - 42.62 Strong Joint (fracture)>>

<<Struc: 44.77 - 44.77 Strong dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 44.86 - 44.86 Strong Joint (fracture)>>
<<Struc: 46.3 - 46.3 Moderate dominant foliation>>
<<Struc: 47 - 47 Strong Joint (fracture)>>
<<Struc: 47 - 47 Orientation Lock Angle>> Lock angle between orientation mark at 47m and 50m.
<<Struc: 49.43 - 49.43 Moderate dominant foliation>>
<<Struc: 49.77 - 49.77 Strong Joint (fracture)>>
<<Struc: 51.16 - 51.16 Strong Joint (fracture)>>
<<Struc: 51.2 - 51.2 Strong dominant foliation>>
<<Struc: 53.68 - 53.68 Weak dominant foliation>>
<<Struc: 53.85 - 53.85 Strong Joint (fracture)>>
<<Struc: 56.27 - 56.27 Moderate dominant foliation>>
<<Struc: 56.35 - 56.35 Strong Joint (fracture)>>
<<Struc: 59.06 - 59.1 Weak Fault>> Small gougey fault zone
<<Struc: 60.06 - 60.12 Weak Fault>> Small gougey fault zone
<<Struc: 60.46 - 60.46 Moderate Joint (fracture)>>
<<Struc: 60.5 - 60.5 Strong dominant foliation>>
<<Struc: 62 - 62 Orientation Lock Angle>> Lock angle between orientation mark at 62m and 65m
<<Struc: 63.52 - 63.52 Strong Joint (fracture)>>
<<Struc: 63.55 - 63.55 Moderate dominant foliation>>
<<Struc: 65 - 65 Orientation Lock Angle>> Lock angle between 65m and 68m
<<Struc: 67.93 - 67.93 Moderate dominant foliation>>
<<Struc: 68 - 68 Strong Joint (fracture)>>
<<Struc: 70.78 - 70.78 Moderate dominant foliation>>
<<Struc: 70.87 - 70.87 Weak Joint (fracture)>>
<<Struc: 73.2 - 73.2 Weak dominant foliation>>
<<Struc: 74 - 74 Strong Joint (fracture)>>
<<Struc: 74 - 74 Orientation Lock Angle>> Lock angle between orientation mark at 74m and 77m
<<Struc: 76.7 - 76.7 Weak dominant foliation>>
<<Struc: 76.86 - 76.86 Strong Joint (fracture)>>
<<Struc: 77 - 77 Orientation Lock Angle>> Lock angle between orientation mark at 77m and 80m
<<Struc: 78.1 - 78.1 Weak >>
<<Struc: 78.34 - 78.34 Strong Joint (fracture)>>
<<Struc: 80.4 - 80.4 Weak dominant foliation>>
<<Struc: 81.22 - 81.22 Strong Joint (fracture)>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 85.36 - 85.36 Strong Joint (fracture)>>

<<Struc: 85.62 - 85.62 Moderate dominant foliation>>

<<Struc: 87.72 - 87.72 Strong Joint (fracture)>>

<<Struc: 87.78 - 87.78 Weak dominant foliation>>

<<Struc: 90.6 - 90.6 Moderate dominant foliation>>

<<Struc: 90.8 - 90.8 Strong Joint (fracture)>>

<<Struc: 92 - 92 Strong Joint (fracture)>>

<<Struc: 92 - 92 Orientation Lock Angle>> Lock angle between orientation mark at 92m and 95m

<<Struc: 92.07 - 92.07 Moderate dominant foliation>>

<<Struc: 95 - 95 Orientation Lock Angle>> Lock angle between orientation mark at 95m and 98m

<<Struc: 96.06 - 96.06 Moderate dominant foliation>>

<<Struc: 96.25 - 96.25 Strong Joint (fracture)>>

97.90 103.60 RHYvl Lapilli tuff

97.9 - 103.6: Light grey, felsic lapilli tuff. Abundant siliceous blebby lapilli to bands with flow texture. Border line curdy textured.

<<Struc: 98 - 98 Orientation Lock Angle>> Lock angle between orientation mark at 98m and 101m

<<Struc: 100.93 - 100.93 Moderate dominant foliation>>

<<Struc: 100.98 - 100.98 Strong Joint (fracture)>>

<<Struc: 101 - 101 Orientation Lock Angle>> Lock angle between orientation mark at 110m and 113m

<<Struc: 101.62 - 101.62 Strong Joint (fracture)>>

<<Struc: 101.72 - 101.72 Moderate dominant foliation>>

103.60 106.94 MDSw Coherent rhyolite flow with carbonaceous content

103.6 - 106.94: Carbonaceous tuff to flow with local flow banded siliceous rhyolite. ~20% carbonaceous material within the matrix.

<<Struc: 106.76 - 106.76 Strong dominant foliation>>

<<Struc: 106.8 - 106.8 Strong Joint (fracture)>>

106.94 128.69 RHYvl Lapilli tuff

106.94 - 128.69: Light grey, matrix-supported, felsic lapilli tuff. Lapilli are dominantly siliceous blebs, which locally stretch across the core axis and appear as flow bands (?). Minor disseminated to patchy PO and PY.

<<Vein: 123.5 - 126 3% Quarzt-Biotite 55 deg. >> Undulating to ptygmatic white coarse veins with minor patchy BI +- MS. Spaced between 30-50cm apart.

<<Struc: 107.94 - 107.94 Moderate dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 108.6 - 108.6 Strong Joint (fracture)>>

<<Struc: 110 - 110 Orientation Lock Angle>> Lock angle between orientation mark at 110m and 113m

<<Struc: 111 - 111 Strong Joint (fracture)>>

<<Struc: 111.16 - 111.16 Moderate dominant foliation>>

<<Struc: 114.9 - 114.9 Moderate dominant foliation>>

<<Struc: 114.95 - 114.95 Strong Joint (fracture)>>

<<Struc: 116 - 116 Orientation Lock Angle>> Lock angle between orientation mark at 116m and 119m.

<<Struc: 116.1 - 116.1 Moderate dominant foliation>>

<<Struc: 116.23 - 116.23 Strong Joint (fracture)>>

<<Struc: 119 - 119 Orientation Lock Angle>> Lock angle between orientation mark at 119m and 122m

<<Struc: 119.84 - 119.84 Strong Joint (fracture)>>

<<Struc: 119.94 - 119.94 Moderate dominant foliation>>

<<Struc: 122 - 122 Orientation Lock Angle>> Lock angle between orientation mark at 122m and 125m

<<Struc: 123.18 - 123.18 Strong Joint (fracture)>>

<<Struc: 123.25 - 123.25 Moderate dominant foliation>>

<<Struc: 125 - 125 Orientation Lock Angle>> Lock angle between orientation mark at 125m and 128m

<<Struc: 125.76 - 125.76 Moderate dominant foliation>>

<<Struc: 125.87 - 125.87 Strong Joint (fracture)>>

<<Struc: 128 - 129.5 Strong Fault>> Polymictic clay sericite fault gauge with clasts of altered rhyolite. 2cm clast of massive PY at approx. 129m.

128.69 130.70 FLZ Fault Zone

128.69 - 130.7: Broken RHYvl in gougey fault zone.

<<Struc: 129.5 - 130.7 Weak-Moderate Fault>> Highly broken altered light yellow grey rhyolite. Minor clay/sericite fault gouge.

130.70 131.77 MDSt Rhyolite tuff dominant mudstone

130.7 - 131.77: Felsic volcanic tuff with carbonaceous cleavages.

131.77 141.96 RHYvl Lapilli tuff

131.77 - 141.96: Light grey felsic lapilli tuff.

<<Alt: 141.55 - 150.86 Weak Muscovite>>

<<Vein: 132.64 - 133.15 2% Quartz-Carbonate 55 deg. >> 3 white quartz veins with minor cream ankerite. Two veins are straight one is ptygmatic.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 137.6 - 138.15 30% Quartz-Carbonate 60 deg. >> Zone of abundant qtz carbonate veins, ranging from 0.5-10cm in diameter.

<<Struc: 132.1 - 132.2 Weak-Moderate Fault>> Gouge supported fault breccia zone. 3cm band of semi massive PY in the hanging wall.

<<Struc: 133.36 - 133.36 Moderate dominant foliation>>

<<Struc: 133.44 - 133.44 Strong Joint (fracture)>>

<<Struc: 135.7 - 135.8 Weak Fault>> Minor gouge on fracture surface.

<<Struc: 139.9 - 139.95 Moderate Fault>> Gouge supported fault breccia

<<Struc: 140.86 - 140.86 Moderate dominant foliation>>

<<Struc: 140.93 - 140.93 Strong Joint (fracture)>>

<<Struc: 141.45 - 141.55 Moderate Fault>> Gouge supported fault breccia. Clasts of altered rhyolite and massive PY up 1.5cm. Foliation orientation differs between footwall and hanging wall, indicative of displacement.

141.96 143.90 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

141.96 - 143.9: Light grey coherent rhyolite with siliceous flow banding.

143.90 146.50 RHYv Undifferentiated Rhyolite volcaniclastic

143.9 - 146.5: Light grey fine grained felsic tuff with disseminated to blebby PO and minor elongated felsic lapilli fragments ranging from 2-30mm in length.

<<Min: 143.9 - 176 1% Min: Pyrite>>

<<Min: 143.9 - 176 3% Min: Pyrrhotite>>

<<Struc: 144.53 - 144.53 Strong dominant foliation>>

<<Struc: 144.76 - 144.76 Strong Joint (fracture)>>

<<Struc: 146 - 146 Orientation Lock Angle>> lock angle between 146m and 149m.

<<Struc: 146.3 - 146.3 Strong Joint (fracture)>>

146.50 150.86 MDSt Rhyolite tuff dominant mudstone

146.5 - 150.86: Light grey to black fine grained felsic tuff with carbonaceous material in cleavages and patches.

<<Struc: 146.9 - 146.9 Strong dominant foliation>>

<<Struc: 149 - 149 Orientation Lock Angle>> Lock angle between orientation mark at 149m and 152m

<<Struc: 150.13 - 150.13 Moderate dominant foliation>>

<<Struc: 150.21 - 150.21 Strong Joint (fracture)>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
150.86	**168.29**	**RHY undifferentiated rhyolite** 150.86 - 168.29: Grey rhyolite with bands of pale grey siliceous material and yellow-green sericite cleavages defining foliation. 2- 5 % disseminated PY and PO throughout, associated with darker patches of aphanitic muscovite and sericite alteration. <<Alt: 150.86 - 176 Strong Muscovite>> <<Vein: 155.7 - 155.9 100% Quartz-Carbonate 40 deg. >> 20cm wide massive quartz vein with blebby carbonate and PO. Minor clasts of sericite altered wall rock. <<Struc: 152 - 152 Orientation Lock Angle>> Lock angle between orientation mark at 152m and 155m <<Struc: 153.87 - 153.87 Weak dominant foliation>> <<Struc: 153.93 - 153.93 Strong Joint (fracture)>> <<Struc: 156.12 - 156.12 Moderate dominant foliation>> <<Struc: 156.15 - 156.15 Strong Joint (fracture)>> <<Struc: 158.14 - 158.14 Strong Joint (fracture)>> <<Struc: 158.51 - 158.51 Weak dominant foliation>> <<Struc: 161 - 161 Orientation Lock Angle>> Lock angle between orientation mark at 161m and 164m <<Struc: 163.53 - 163.53 Strong Joint (fracture)>> <<Struc: 163.6 - 163.6 Weak dominant foliation>> <<Struc: 164.75 - 164.75 Moderate dominant foliation>> Measured from 164m orientation mark (no marking from 167m) <<Struc: 164.88 - 164.88 Strong Joint (fracture)>> Measured from 164m orientation mark (no marking from 167m) <<Struc: 167.54 - 167.54 Moderate dominant foliation>> <<Struc: 167.64 - 167.64 Strong Joint (fracture)>>									
168.29	**176.00**	**MDSt Rhyolite tuff dominant mudstone** 168.29 - 176: Light grey or black grading into green colour downhole. Well foliated muscovite-quartz schist with patches and bands of carbonaceous material. Cleavages are dominantly comprised of yellowish-grey sericite/muscovite. 2-5% disseminated PY +/- PO. <<Vein: 171.8 - 173.75 10% Quartz-Carbonate 40 deg. >> One 5cm vein perpendicular to foliation and one 20cm vein parallel with foliation <<Struc: 170 - 170 Orientation Lock Angle>> Lock angle between orientation mark at 170m and 173m <<Struc: 170.96 - 170.96 Strong Joint (fracture)>> <<Struc: 170.99 - 170.99 Strong dominant foliation>> <<Struc: 173.93 - 173.93 Moderate dominant foliation>> Measured from 170m orientation mark (no marking from 173, 176) <<Struc: 173.97 - 173.97 Strong Joint (fracture)>> Measured from 170m orientation mark (no marking from 173, 176)	171.50	173.00	1.50	D00004501	-0.005	0.3	-0.01	-0.01	0.04
			173.00	174.50	1.50	D00004502	-0.005	1	-0.01	0.03	0.07
			174.50	176.00	1.50	D00004503	-0.005	-0.3	-0.01	-0.01	0.04

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
176.00	**185.57**	**OJ** **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	176.00	177.40	1.40	D00004504	-0.005	0.6	0.02	0.03	1.04
		176 - 185.57: Green, moderately foliated, fine grained, chlorite-quartz schist. Quartz occurs as blebs. Chlorite is massive and/or localized along cleavage planes. Patchy disseminated cordierite occurs throughout the zone associated with minor muscovite alteration and CP + SP +/- PY mineralization. Approx. 3% SP, 1% CP, and 1% PY occurs is wisps to patches throughout this zone. Minor thin (~1 cm wide), irregular, quartz + carbonate veinlets occur throughout this zone as well.									
		<<Min: 176 - 185.57 5% Min: Sphalerite>>	177.40	178.80	1.40	D00004505	0.012	14.1	0.33	0.3	0.8
		<<Min: 176 - 185.57 1% Min: Pyrite>>	178.80	180.20	1.40	D00004506	0.031	17.5	0.37	0.19	2.56
		<<Min: 176 - 185.57 1% Min: Chalcopyrite>>	180.20	181.60	1.40	D00004507	0.008	9.9	0.07	0.14	1.15
		<<Alt: 176 - 185.57 Weak Muscovite>> Minor blebby muscovite/sericite alteration around CI patches associated with sulfide mineralization.	181.60	183.00	1.40	D00004508	0.021	19.8	0.25	0.27	2.64
		<<Alt: 176 - 185.57 Moderate-Strong Chlorite>> Chlorite on cleavage surfaces to locally massive intense alteration bands	183.00	184.30	1.30	D00004509	0.006	8.3	0.11	0.17	0.77
		<<Alt: 176 - 185.57 Weak-Moderate Cordierite>> Patches to disseminations of coarse grained cordierite aggregates	184.30	185.57	1.27	D00004511	0.007	8.6	0.1	0.1	0.41
		<<Alt: 176 - 185.7 Weak-Moderate Albite>> 0.5-5 cm patches and veins of white quartz albite alteration, proximal to sulphide mineralization.									
		<<Vein: 176.7 - 185.57 5% Quartz-Albite 55 deg. >> Irregular veins and patches of quartz and albite, see alteration logs.									
		<<Struc: 178.47 - 178.47 Strong dominant foliation>>									
		<<Struc: 178.68 - 178.68 Strong Joint (fracture)>>									
		<<Struc: 179 - 179 Orientation Lock Angle>> Lock angle between orientation mark at 179m and 182m									
		<<Struc: 180.41 - 180.41 Strong dominant foliation>>									
		<<Struc: 181.41 - 181.41 Strong Joint (fracture)>>									
		<<Struc: 182.41 - 182.41 Strong Joint (fracture)>>									
		<<Struc: 183.21 - 183.21 Strong dominant foliation>>									
185.57	**186.39**	**OC** **Chalcopyrite-pyrrhotite net textured sulphides**	185.57	186.39	0.82	D00004512	0.198	79.8	1.84	0.48	2.06
		185.57 - 186.39: Massive to patchy PY +/- PO +/- CP +/- SP within strongly CI + CL rock with irregular quartz + carbonate + chlorite veining. Sulphide is fine to medium grained with local buckshot pyrite. PO occurs as patches (~2 cm wide) within the massive PY. CP and SP occur as dissemination and blebs within the massive PY and locally as dissemination within the quartz-carbonate-chlorite veining. Coarse grained CI occurs as large aggregate patches in the wallrock and disseminated within the massive sulfide. Chlorite occurs as fine grained patches within the wallrock and potentially as an alteration/metamorphic pseudomorph of CI.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Min: 185.57 - 186.39 3% Min: Sphalerite>> Disseminated SP in massive PY.									
		<<Min: 185.57 - 186.39 55% Min: Pyrite>> Massive pyrite with diss PO + SP + CP + CI									
		<<Min: 185.57 - 186.39 5% Min: Pyrrhotite>> Blebs of PO within massive PY									
		<<Min: 185.57 - 186.39 3% Min: Chalcopyrite>> Disseminated CP in massive PY									
		<<Alt: 185.57 - 186.39 Moderate Chlorite>> Patchy massive chlorite in wallrock									
		<<Alt: 185.57 - 186.61 Strong Cordierite>> Patches of coarse grained CI in wallrock and disseminated coarse grained CI in massive sulfide.									
		<<Alt: 185.57 - 186.61 Weak-Moderate Calcite>>									
		<<Vein: 185.57 - 186.39 20% Quartz-Carbonate 55 deg. >> Massive irregular quartz carbonate vein cutting massive sulphide lens. Disseminated cordierite, chlorite and recrystalised sulphides in veins.									
186.39	**193.00**	**RHYv** **Undifferentiated Rhyolite volcaniclastic**	186.39	187.80	1.41	D00004513	0.008	0.9	0.04	-0.01	0.03
		186.39 - 193: Light-yellowish grey, quartz-muscovite schist with strong sericite alteration mainly occurring as cleavage planes. Strong patchy CI at top of the unit (186.39-186.61 m). Disseminated to patchy PO + PY + SP +/- CP occurs throughout the unit. Clasts ranging from 0.5 cm to 15 cm of flattened pumice (?)									
		<<Min: 186.39 - 192 1% Min: Sphalerite>>	187.80	189.30	1.50	D00004514	-0.005	-0.3	-0.01	-0.01	0.01
		<<Min: 186.39 - 200 1% Min: Pyrite>>	189.30	190.80	1.50	D00004515	-0.005	2.3	0.02	0.02	0.06
		<<Min: 186.39 - 200 2% Min: Pyrrhotite>>									
		<<Alt: 186.39 - 198 Strong Muscovite>>									
		<<Alt: 186.61 - 198 Trace Calcite>>									
		<<Struc: 190.77 - 190.77 Strong Joint (fracture)>>									
		<<Struc: 190.94 - 190.94 Strong dominant foliation>>									
		<<Struc: 191.23 - 191.23 Strong Joint (fracture)>>									
		<<Struc: 192.5 - 192.5 Moderate dominant foliation>>									
		<<Struc: 192.6 - 193 Weak Fault>> Two fracture surfaces with 2-5 mm of sericite gouge at contact between RHYc and RHYcw.									
193.00	**200.00**	**RHYc** **Undifferentiated coherant rhyolite**									
		193 - 200: Light yellowish-grey, fine grained, well foliated, quartz-muscovite schist with sericitic (alteration) cleavage planes. Locally siliceous flow banding is present.									
		<<Alt: 198 - 200 Moderate Muscovite>>									
		<<Alt: 198 - 200 Moderate Calcite>>									
		<<Struc: 195.25 - 195.5 Moderate Fault>> Broken angular fragments of rhyolite (3-50mm) with abundant sericite fault gouge.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Struc: 196.32 - 196.32 Moderate dominant foliation>>									
		<<Struc: 196.56 - 196.56 Strong Joint (fracture)>>									
		<<Struc: 196.84 - 196.84 Strong Joint (fracture)>>									
		<<Struc: 197.23 - 197.23 Moderate dominant foliation>>									
		<<Struc: 199.57 - 199.57 Strong dominant foliation>>									
		<<Struc: 199.89 - 199.89 Strong Joint (fracture)>>									
		End of Hole @ 200									

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-421

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/30/2017
UTM Easting	413858.0531	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/1/2017
UTM Northing:	6818532.565	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1483.499	Casing Depth (m):	1.5	Length (m):	40.65	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	6/28/2017
Local Northing:		Cemented?:	THM	Core Storage Loc.:	KZK Camp	Drill Completed:	6/29/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
Comments:						Parent Hole:	

K17-421 was drilled to help evaluate geotechnical and hydrogeological characteristics of the Class A storage facility.
K17-421 encounters intercalated mudstones and mafic volcanics (altered to ankerite) from the Wind Lake Formation. An intermediate intrusion occurs from 29.54 to 37.20 m depth. Chlorite and carbonate alteration occurs throughout the hole.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	6/28/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 0.80 OVBN Overburden

0.80 6.10 MDSc Carbonaceous dominant mudstone

0.8 - 6.1: Laminated mudstone, calcite foliations concordant with the laminations. Carbonate abundance variable over interval. Intercalation of highly oxidized ankerite layer 20cm at 3.6m depth. Alpha angle on foliations 70 degrees.

<<Alt: 0.8 - 3.3 Trace Calcite>> Banded/wispy carbonate concordant to foliation.

<<Alt: 3.3 - 3.6 Moderate Ankerite>> Mafic volcaniclastic protolith

<<Alt: 3.6 - 6.1 Trace Calcite>> Banded/wispy carbonate concordant to lamination.

<<Vein: 3.3 - 22.88 5% Quartz-Carbonate 55 deg. >> Large (60cm) to hairline quartz/calcite veins mostly concordant to foliation. Quartz to calcite ratio variable.

6.10 9.30 MAFt Undifferentiated mafic volcaniclastic

6.1 - 9.3: Mafic tuff heavily altered to ankerite. Original fabrics & mineralogy nearly unrecognizable. 50cm quartz veins on contacts with overlying & underlying mudstone units.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Alt: 6.1 - 6.2 Moderate Ankerite>>

<<Alt: 6.64 - 8.67 Moderate Ankerite>> Some intercalated qtz veins (minor component of interval)

9.30 14.14 MDSc Carbonaceous dominant mudstone

9.3 - 14.14: Laminated mudstone, strongly deformed/folded in some places. 1 cm to 10 cm quartz veins concordant to laminations. Carbonate foliation abundance decreased from previous MDSc interval.

<<Min: 12.92 - 13.13 5% Min: Pyrite>>

<<Alt: 9.35 - 11.25 Trace Calcite>>

<<Alt: 11.5 - 11.95 Moderate-Strong Ankerite>>

<<Alt: 11.95 - 12.01 Moderate Muscovite>>

<<Alt: 12.01 - 12.92 Trace Calcite>>

<<Alt: 12.92 - 13.13 Moderate-Strong Ankerite>>

<<Alt: 13.13 - 14.14 Trace Calcite>>

<<Struc: 11.3 - 12.15 Weak Fault>>

14.14 14.56 MAFt Undifferentiated mafic volcaniclastic

14.14 - 14.56: Foliated mafic tuff layer moderately altered to ankerite. Ankerite is strongly oxidized.

<<Min: 14.14 - 14.56 4% Min: Pyrite>> + disseminated blebs

<<Alt: 14.14 - 14.56 Moderate Ankerite>> Gradational, intensifies down hole

14.56 18.45 MDSc Carbonaceous dominant mudstone

14.56 - 18.45: Laminated mudstone. Deformed in relatively small portion of the interval proximal to quartz veins. Contains large quartz veins > 10cm and stringy carbonate veins & veinlets cross-cutting the laminations. Minor fault in ankerite interval at 15.1m

<<Alt: 14.56 - 15.06 Trace Calcite>>

<<Alt: 15.06 - 15.41 Moderate-Strong Ankerite>> Adjacent to qtz vein & fault zone

<<Alt: 15.41 - 18.45 Weak Calcite>> Discordant stringy veins/clusters.

<<Struc: 15.13 - 15.34 Moderate Fault>> Heavily brecciated in AK alteration

18.45 21.37 MAFt Undifferentiated mafic volcaniclastic

18.45 - 21.37: Mafic tuff heavily altered to ankerite. Weakly foliated throughout interval. Qtz veins <1.5 cm abundant in upper meter of interval.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 18.45 - 19 4% Min: Pyrite>>

<<Min: 19 - 21.37 0.1% Min: Pyrite>>

<<Alt: 18.45 - 21.37 Moderate Ankerite>> More intense at upper & lower contact (~5 intensity)

21.37 22.35 MDSc Carbonaceous dominant mudstone

21.37 - 22.35: Laminated mudstone weakly deformed. Stringy calcite veins concordant or discordant with laminations.

<<Alt: 21.37 - 22.35 Trace Calcite>> Concordant to laminations.

22.35 22.88 MAFt Undifferentiated mafic volcaniclastic

22.35 - 22.88: Interval of mafic tuff heavily altered to ankerite. Calcite veins up to 2 cm throughout interval concordant to the weak foliation. Drill core surface is highly oxidized and fractures are completely oxidized.

<<Min: 22.35 - 22.88 1% Min: Pyrite>>

<<Alt: 22.35 - 22.88 Weak-Moderate Ankerite>>

22.88 27.50 MDSc Carbonaceous dominant mudstone

22.88 - 27.5: Laminated mudstone minorly deformed with intercalated calcite bands concordant with laminations. Upper and lower contacts with oxidized ankerite interval are sharp. Large quartz veins 0.5 to 2cm are present and cross-cut the laminations. Contains an oxidized ankerite interval ~20cm.

<<Min: 23.03 - 23.24 0.1% Min: Pyrite>> Present in 1mm calcite veinlets

<<Alt: 22.88 - 23.91 Trace Calcite>>

<<Alt: 23.91 - 24.12 Moderate Ankerite>>

<<Alt: 24.12 - 27.6 Trace Calcite>>

27.50 27.90 MAFt Undifferentiated mafic volcaniclastic

27.5 - 27.9: Mafic tuff altered to ankerite-dominant layer akin to previous ankerite intercalations. Weakly foliated and heavily oxidized. Possibly muscovite? Upper contact is an 11 cm quartz vein and lower contact contains elongated lenses of pyrite <1 cm thick.

<<Min: 27.79 - 27.9 5% Min: Pyrite>> elongated lenses

<<Alt: 27.6 - 27.9 Moderate Ankerite>>

<<Vein: 27.5 - 27.6 95% Quartz-Carbonate 60 deg. >> 90% Qz

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

27.90 29.54 MDSc Carbonaceous dominant mudstone

27.9 - 29.54: Laminated mudstone weak to moderate deformations (some crenulations present), minor carbonate component concordant with laminations. Heavily fractured at 29m but no gouge. Sharp upper & lower contacts with ankerite-dominated unit.

<<Alt: 27.9 - 29.54 Trace Calcite>>

29.54 37.60 INT undifferentiated (granitic) intrusive rocks

29.54 - 37.6: Massive intermediate intrusion. Speckled equigranular biotite throughout the unit that rarely deviates from its 1mm crystal size and 10% abundance. Calcite and plagioclase crystals also present in similar size. Calcite and/or quartz veins occur throughout up to 3 cm. Medium grey groundmass with minor chlorite. Gradational ankerite alteration present in the uppermost 0.6 m and lowermost 0.4 m, where the alteration intensifies towards the contacts. Large karst voids present from 29.55 m to 29.90 m from former calcite veins.

<<Alt: 29.54 - 30.12 Strong Ankerite>> Gradational, most intense at top of sequence with large karst voids.

<<Alt: 30.12 - 37.2 Trace Calcite>> Large quartz/calcite veins up to 8cm, discordant with the weak foliation.

<<Alt: 37.2 - 37.6 Moderate Ankerite>> Gradational, most intense at bottom of sequence.

<<Vein: 29.54 - 36.4 3% Calcium carbonate/Carbonate>> Primarily carbonate veins with 1 large Qtz/Carbonate vein

37.60 40.65 MDSc Carbonaceous dominant mudstone

37.6 - 40.65: Laminated weakly deformed mudstone. Carbonate foliations concordant with the laminations throughout interval at variable abundances. Stringy veins cross-cutting the laminations (follows orientation of core axis) present along bottom of interval. 5 cm massive quartz vein present at 40.25 m, and below it carbonate presence becomes intense which includes foliations and veins up to 8 cm. However the mudstone laminations and carbonaceous layers are still preserved in where there are no veins.

<<Alt: 37.6 - 40.22 Trace Calcite>>

<<Alt: 40.27 - 40.65 Weak Calcite>> Veins concordant to foliation, disconcordant veins, and large veins up to 8 cm.

<<Vein: 40.23 - 40.65 40% Quartz-Carbonate 70 deg. >> Massive + veinlets

End of Hole @ 40.65

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-422

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	6/29/2017
UTM Easting:	414747.478	Core Size:	HQ3	Azimuth:	300	Date Logging Complete:	7/2/2017
UTM Northing:	6815638.611	Casing Pulled?:	Yes	Dip:	-60	Drill Company:	New Age
UTM Elev. (m):	1412.02	Casing Depth (m):	10.5	Length (m):	221	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title:	KZK	Drill Started:	6/27/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	6/30/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-422 was drilled to study the geotechnical properties of the proposed open pit high-wall. Optical and acoustic televiewer surveys were completed in the borehole.
Overburden extended to a 2.8 m. The felsic volcanic and volcano-sedimentary package, consisting of intercalated volcaniclastic rhyolite, coherent rhyolite, and meta-pelites, occurs throughout the hole, with significant alteration from 140.2 to 215.9 m. Strong muscovite alteration begins at 140.2 and extends to 146.88 m, where strong proximal alteration begins (chlorite + cordierite). The proximal alteration extends to 150.23 m and is associated with stringer style mineralization (OJ; pyrrhotite + chalcopyrite +/- pyrite) and massive sulfide (OG; chalcopyrite + pyrrhotite +/- pyrite). The massive sulfide occurs from 148.5 to 149.66 m. Below this zone of proximal alteration, strong muscovite alteration extends from 150.23 to 156.25 m. From 156.25 to 165.65 strong proximal alteration exists with OJ style mineralization. From 165.65 to 215.9 moderate to strong muscovite +/- chlorite alteration exists associated with local zones of increased disseminated sulfides (sphalerite + pyrite).
Disseminated to stringer style sulfides (pyrrhotite + chalcopyrite +/- pyrite) within strong chlorite-cordierite alteration zones (OJ) occurs from 146.88 to 148.5 m, 149.66 to 150.23 m, and 156.25 to 165.65 m and massive sulfide (OG; chalcopyrite + pyrrhotite +/- pyrite) occurs from 148.5 to 149.66 m. Strong muscovite alteration occurs above, below, and between the zones of proximal alteration.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-60	300	0	300	PLND-LiDAR	Trent Newkirk	6/27/2017		☑	
14	-61.3	279.3	21.7	301	EZ-TRAC	New Age	6/27/2017	58612	☑	
26	-61.1	283.3	21.7	305	EZ-TRAC	New Age	6/28/2017	58269	☑	
50	-62.3	283.5	21.7	305.2	EZ-TRAC	New Age	6/28/2017	58137	☑	
75	-63.7	282	21.7	303.7	EZ-TRAC	New Age	6/28/2017	58871	☑	
101	-65.5	277.9	21.7	299.6	EZ-TRAC	New Age	6/29/2017	58000	☑	
125	-66.3	278.6	21.7	300.3	EZ-TRAC	New Age	6/29/2017	59251	☑	
150	-66.8	295.6	21.7	317.3	EZ-TRAC	New Age	6/29/2017	52418	☐	
176	-66.9	279.3	21.7	301	EZ-TRAC	New Age	6/29/2017	59128	☑	
200	-67.8	279.8	21.7	301.5	EZ-TRAC	New Age	6/30/2017	58740	☑	
221	-68.2	276.7	21.7	298.4	EZ-TRAC	New Age	6/30/2017	58795	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
0.00	**2.80**	**OVBN Overburden**									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm

0 - 2.8: Dark brown till with subrounded to subangular lithic fragments set in a clayey, sandy, silt. Abundant mica fragments and trace sulphides.

2.80 7.24 RHYvl Lapilli tuff

<<Min: 2.8 - 56.18 0.5% Min: Pyrite>>

<<Min: 2.8 - 56.18 1% Min: Pyrrhotite>>

<<Alt: 2.8 - 27.26 Weak Calcite>>

<<Struc: 4.14 - 4.14 Joint (fracture)>>

<<Struc: 4.43 - 4.43 Moderate dominant foliation>>

<<Struc: 5 - 5 Orientation Lock Angle>> Lock angle between 5m and 8m

<<Struc: 6.97 - 6.97 Weak dominant foliation>>

<<Struc: 7.06 - 7.06 Joint (fracture)>>

7.24 9.07 RHYva Coarse grained to ash tuff

<<Vein: 9.03 - 9.04 100% Carbonate-Biotite 40 deg. >> Biotite carbonate with inner line of medium to coarse quartz crystals adjacent to contact between RHYva and RHYvl.

<<Struc: 8 - 8 Orientation Lock Angle>> Lock angle between 8m and 11m

<<Struc: 8.47 - 8.47 Joint (fracture)>>

<<Struc: 8.6 - 8.6 Weak dominant foliation>>

9.07 19.83 RHYvl Lapilli tuff

<<Vein: 15.6 - 15.68 60% Quartz-Carbonate-Sericite 55 deg. >> Two irregular light grey quartz veins with minor blebby pale apple green sericite.

<<Struc: 11.99 - 11.99 Joint (fracture)>>

<<Struc: 12.15 - 12.15 Weak dominant foliation>>

<<Struc: 14.65 - 14.65 Weak dominant foliation>>

<<Struc: 14.83 - 14.83 Joint (fracture)>>

<<Struc: 18.79 - 18.79 Joint (fracture)>>

<<Struc: 18.88 - 18.88 Weak dominant foliation>>

19.83 22.98 RHYc Undifferentiated coherant rhyolite

<<Struc: 20.82 - 20.82 Joint (fracture)>>

<<Struc: 20.93 - 20.93 Moderate dominant foliation>>

22.98 27.26 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm

<<Struc: 23 - 23 Orientation Lock Angle>> Lock angle between 23m and 26m

<<Struc: 23.29 - 23.29 Joint (fracture)>>

<<Struc: 24.69 - 24.69 Weak dominant foliation>>

<<Struc: 26 - 26 Orientation Lock Angle>> Lock angle between 26m and 29m

<<Struc: 27.17 - 27.17 Weak dominant foliation>>

27.26 27.50 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

<<Alt: 27.26 - 35.52 Moderate Calcite>>

27.50 35.53 RHYva Coarse grained to ash tuff

<<Alt: 35.52 - 41.55 Strong Calcite>>

<<Struc: 28.21 - 28.21 Joint (fracture)>>

<<Struc: 29 - 29 Orientation Lock Angle>> Lock angle between 29m and 32m

<<Struc: 30.85 - 30.85 Joint (fracture)>>

<<Struc: 31.33 - 31.33 Strong dominant foliation>>

<<Struc: 32.94 - 32.94 Joint (fracture)>>

<<Struc: 33.24 - 33.24 Weak dominant foliation>>

<<Struc: 35 - 35 Orientation Lock Angle>> Lock angle between 35m and 38m

35.53 38.49 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

<<Vein: 37.8 - 38 100% Quartz-Sericite/White mica-Chlorite>> Brown, light grey, pale apple green and black discordant and irregular vein with abundant ankerite, quartz and sericite with dendritic wispy biotite/chlorite. Adjacent to the contact between RHYvl and RHYc.

<<Struc: 35.76 - 35.76 Joint (fracture)>>

<<Struc: 36 - 36 Moderate dominant foliation>>

<<Struc: 37.74 - 37.74 Orientation Lock Angle>> Lock angle between 38m and 41m

38.49 39.63 RHYc Undifferentiated coherant rhyolite

39.63 41.55 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

<<Struc: 39.71 - 39.71 Moderate dominant foliation>>

<<Struc: 39.86 - 39.86 Joint (fracture)>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm

41.55 45.40 RHYvl Lapilli tuff

<<Alt: 41.55 - 47.9 Moderate Calcite>>

<<Struc: 43.23 - 43.23 Joint (fracture)>>

<<Struc: 43.34 - 43.34 Strong dominant foliation>>

<<Struc: 44.73 - 44.73 Joint (fracture)>>

<<Struc: 44.82 - 44.82 Moderate-Strong dominant foliation>>

45.40 46.20 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

46.20 48.00 RHYvl Lapilli tuff

<<Alt: 47.9 - 50.4 Strong Calcite>>

48.00 50.40 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

<<Struc: 48.5 - 48.55 Weak-Moderate Fault>> Soft broken rock fragments (~5mm) with abundant sandy/silty gouge.

50.40 89.60 RHYvl Lapilli tuff

50.4 - 89.6: Siliceous lapilli in fine grained grey ash matrix

<<Min: 56.18 - 60.6 4% Min: Pyrite>>

<<Min: 56.18 - 60.6 1% Min: Pyrrhotite>>

<<Min: 60.6 - 95 0.5% Min: Pyrrhotite>>

<<Alt: 50.4 - 89.6 Weak Calcite>>

<<Alt: 54.4 - 61.1 Weak Muscovite>> Weak yellow grey muscovite alteration in cleavages, associated with blebby PY and PO.

<<Vein: 54.39 - 54.4 100% Quarzt-Biotite 35 deg. >> Discordant brown quartz biotite vein. 35 % light grey and opaque Qtz (soft, with carbonate?) angular blebs surrounded by brown biotite (phlogopite). May be an altered quartz tourmaline vein.

<<Vein: 69.85 - 69.9 50% Quartz 20 deg. >> 1.5 cm wide quartz vein cross-cutting foliation

<<Vein: 89 - 94 5% Quartz-Carbonate>> Zone with irregular quartz-calcite veining. Veins vary from 2-5 cm and appear deformed (folded and boudinaged) roughly into the foliation plane. Veins are spaced at roughly 0.5 m apart.

<<Struc: 50.45 - 50.6 Weak-Moderate Fault>> Broken rock with silty fault gouge along contact between PEL and RHY.

<<Struc: 59.61 - 59.61 Joint (fracture)>>

<<Struc: 59.9 - 59.9 Moderate dominant foliation>>

<<Struc: 62.86 - 62.86 Joint (fracture)>>

<<Struc: 63.19 - 63.19 Weak dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm

<<Struc: 67.88 - 67.88 Joint (fracture)>>
<<Struc: 67.92 - 67.92 Moderate dominant foliation>>
<<Struc: 68.77 - 68.77 Moderate dominant foliation>>
<<Struc: 69.87 - 69.87 Joint (fracture)>>
<<Struc: 71.79 - 71.79 Moderate dominant foliation>>
<<Struc: 72.06 - 72.06 Joint (fracture)>>
<<Struc: 74.19 - 74.19 Strong dominant foliation>>
<<Struc: 74.22 - 74.22 Joint (fracture)>>
<<Struc: 82.4 - 82.4 Joint (fracture)>>
<<Struc: 82.5 - 82.5 Strong dominant foliation>>
<<Struc: 83 - 83 Orientation Lock Angle>> Lock angle between 83m and 86m
<<Struc: 85.15 - 85.15 Moderate dominant foliation>>
<<Struc: 85.37 - 85.37 Joint (fracture)>>
<<Struc: 86 - 86 Orientation Lock Angle>> Locking angle between 86m and 89m
<<Struc: 88.46 - 88.46 Strong dominant foliation>>
<<Struc: 88.86 - 88.86 Joint (fracture)>>

89.60 90.83 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

<<Alt: 89.6 - 90.83 Strong Calcite>>

90.83 91.70 RHYvl Lapilli tuff

<<Alt: 90.83 - 91.7 Moderate Calcite>>

91.70 94.70 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

91.7 - 94.7: Gradational lower contact with RHYv

<<Alt: 91.7 - 94.7 Strong Calcite>>
<<Struc: 91.78 - 91.78 Strong dominant foliation>>
<<Struc: 91.88 - 91.88 Joint (fracture)>>
<<Struc: 92 - 92 Orientation Lock Angle>> Lock angle between 92m and 95m
<<Struc: 92.61 - 92.61 Joint (fracture)>>
<<Struc: 92.95 - 92.95 Strong dominant foliation>>

94.70 103.76 RHYvl Lapilli tuff

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm

<<Min: 95 - 136.6 0.5% Min: Pyrite>>

<<Alt: 94.7 - 188.9 Weak Calcite>>

<<Vein: 96.29 - 96.36 80% Quartz-Carbonate 50 deg. >> 4 cm wide quartz-ankerite vein cutting foliation

<<Vein: 100.7 - 102.9 5% Quartz-Carbonate>> Zone with irregular quartz-calcite veining. Veins vary from 2-5 cm and appear deformed (folded and boudinaged) roughly into the foliation plane. Veins are spaced at roughly 0.5 m apart.

<<Struc: 95 - 95 Orientation Lock Angle>> Lock angle between 95m and 98m

<<Struc: 97.27 - 97.27 Moderate dominant foliation>>

<<Struc: 97.79 - 97.79 Joint (fracture)>>

<<Struc: 98.26 - 98.26 Moderate dominant foliation>>

<<Struc: 98.44 - 98.44 Joint (fracture)>>

<<Struc: 101.26 - 101.26 Joint (fracture)>>

<<Struc: 101.96 - 101.96 Moderate dominant foliation>>

103.76 104.70 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

104.70 136.60 RHYvl Lapilli tuff

<<Vein: 106.7 - 106.85 80% Quartz-Carbonate>> Irregular quartz-calcite veining

<<Vein: 117.3 - 117.6 60% Quartz-Carbonate>> Irregular quartz-calcite veining

<<Struc: 104.7 - 105.8 Weak-Moderate Fault>> Broken rock with minor gouge and moderate fault-related clay-sericite alteration

<<Struc: 106.55 - 106.55 Moderate dominant foliation>>

<<Struc: 106.69 - 106.69 Joint (fracture)>>

<<Struc: 107 - 107 Orientation Lock Angle>> Lock angle between 107m and 110m

<<Struc: 108.48 - 108.48 Weak dominant foliation>>

<<Struc: 108.65 - 108.65 Joint (fracture)>>

<<Struc: 111.03 - 111.03 Moderate dominant foliation>>

<<Struc: 111.15 - 111.15 Joint (fracture)>>

<<Struc: 113.2 - 113.2 Moderate dominant foliation>>

<<Struc: 113.34 - 113.34 Joint (fracture)>>

<<Struc: 116 - 116 Orientation Lock Angle>> Lock angle between 116m and 119m

<<Struc: 117 - 117 Orientation Lock Angle>> Lock angle between 17m and 20m

<<Struc: 117.88 - 117.88 Strong dominant foliation>>

<<Struc: 118.8 - 118.8 Joint (fracture)>>

<<Struc: 119 - 119 Orientation Lock Angle>> Lock angle between 119m and 222m

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
<<Struc: 119.6 - 119.6 Weak dominant foliation>>											
<<Struc: 121.87 - 121.87 Joint (fracture)>>											
<<Struc: 122 - 122 Orientation Lock Angle>> Lock angle between 122m and 125m											
<<Struc: 124.11 - 124.11 Joint (fracture)>>											
<<Struc: 124.28 - 124.28 Moderate dominant foliation>>											
<<Struc: 125 - 125 Orientation Lock Angle>>											
<<Struc: 126.26 - 126.28 Moderate Fault>> Narrow gouge zone											
<<Struc: 126.63 - 127.63 Joint (fracture)>>											
<<Struc: 127.59 - 127.59 dominant foliation>>											
<<Struc: 128.93 - 128.93 Strong dominant foliation>>											
<<Struc: 133.54 - 133.54 Joint (fracture)>>											
<<Struc: 133.78 - 133.78 Weak dominant foliation>>											
136.60	**138.45**	**FLZ Fault Zone**									
<<Min: 136.6 - 146.88 1% Min: Pyrite>>											
<<Min: 136.6 - 146.88 2% Min: Pyrrhotite>>											
<<Alt: 136.6 - 140.2 Moderate Muscovite>>											
<<Struc: 136.6 - 136.85 Moderate Fault>> Fault gouge supported breccia. Top half of the fault has been healed and is coherent.											
<<Struc: 136.85 - 143 Weak-Moderate Fault>> Rubble zone with local narrow gouge intervals											
138.45	**140.20**	**MDSt Rhyolite tuff dominant mudstone**									
140.20	**146.88**	**RHY undifferentiated rhyolite**	142.40	143.90	1.50	D00004516	-0.005	2.2			
<<Alt: 140.2 - 146.88 Strong Muscovite>>			143.90	145.40	1.50	D00004517	0.006	1.8			
<<Vein: 142.2 - 142.25 80% Quartz 65 deg. >> Irregular quartz vein			145.40	146.88	1.48	D00004518	-0.005	1.1			
<<Struc: 145.34 - 165.34 Weak dominant foliation>>											
<<Struc: 146.54 - 146.54 Joint (fracture)>>											
146.88	**148.50**	**OJ Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	146.88	147.71	0.83	D00004519	0.351	39.6			
146.88 - 148.5: Disseminated to blebby PO + CP +/- PY in massive intense chlorite and disseminated cordierite alteration											
<<Min: 146.88 - 148.5 3% Min: Pyrite>> Wispy to patchy PO + CP +/- PY in strong CL-CI alteration (OJ)			147.71	148.50	0.79	D00004522	0.743	83.7			
<<Min: 146.88 - 148.5 10% Min: Pyrrhotite>> Wispy to patchy PO + CP +/- PY in strong CL-CI alteration (OJ)											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
		<<Min: 146.88 - 148.5 5% Min: Chalcopyrite>> Wispy to patchy PO + CP +/- PY in strong CL-CI alteration (OJ)									
		<<Alt: 146.88 - 148.5 Strong Chlorite>> Massive chlorite with disseminated coarse grained CI									
		<<Alt: 146.88 - 150.23 Moderate Cordierite>> Disseminated coarse grained CI in massive CL									
		<<Struc: 147.39 - 147.39 Joint (fracture)>>									
		<<Struc: 147.79 - 147.79 dominant foliation>>									
148.50	**149.66**	**OG Chalcopyrite rich sulphides**	148.50	149.66	1.16	D00004523	2.21	202			
		148.5 - 149.66: Massive net-textured CP + PO with disseminated coarse grained CI									
		<<Min: 148.5 - 149.66 5% Min: Pyrite>> Massive net-textured CP + PO with disseminated coarse grained CI									
		<<Min: 148.5 - 149.66 25% Min: Pyrrhotite>> Massive net-textured CP + PO with disseminated coarse grained CI									
		<<Min: 148.5 - 149.66 40% Min: Chalcopyrite>> Massive net-textured CP + PO with disseminated coarse grained CI									
		<<Alt: 148.5 - 149.66 Moderate Chlorite>> Patchy chlorite in massive sulfide									
		<<Struc: 149 - 149 Orientation Lock Angle>> Locking angle between 149m and 152m									
149.66	**150.23**	**OJ Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	149.66	150.23	0.57	D00004524	0.538	98.6			
		149.66 - 150.23: Disseminated to blebby PO + CP +/- PY in massive intense chlorite and disseminated cordierite alteratior									
		<<Min: 149.66 - 150.23 40% Min: Pyrrhotite>> Patchy to semi-massive PO + CP in strong CL-CI alteration (OJ)									
		<<Min: 149.66 - 150.23 5% Min: Chalcopyrite>> Patchy to semi-massive PO + CP in strong CL-CI alteration (OJ)									
		<<Alt: 149.66 - 150.23 Strong Chlorite>> Massive chlorite with disseminated coarse grained CI									
150.23	**156.25**	**RHY undifferentiated rhyolite**	150.23	151.43	1.20	D00004525	0.005	2			
		150.23 - 156.25: Disseminated to patchy SP + CP + PO in strongly MU +/- CL altered rhyolite (?)									
		<<Min: 150.23 - 156.25 2% Min: Sphalerite>>	151.43	152.61	1.18	D00004526	0.011	4.4			
		<<Min: 150.23 - 156.25 2% Min: Pyrite>>	152.61	154.00	1.39	D00004527	0.039	17.2			
		<<Min: 150.23 - 156.25 1% Min: Pyrrhotite>>	154.00	155.10	1.10	D00004528	0.006	4.7			
		<<Min: 150.23 - 156.25 1% Min: Chalcopyrite>>	155.10	156.25	1.15	D00004529	0.026	8.8			
		<<Alt: 150.23 - 156.25 Strong Muscovite>>									
		<<Alt: 150.23 - 156.25 Weak Chlorite>>									
		<<Alt: 150.23 - 156.25 Weak Cordierite>>									
		<<Struc: 151.65 - 151.65 Moderate dominant foliation>>									
		<<Struc: 155.23 - 155.23 Joint (fracture)>>									
		<<Struc: 155.23 - 155.23 Strong dominant foliation>>									

From (m)	To (m)		Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm
156.25	**165.65**	**OJ**	**Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	156.25	157.50	1.25	D00004531	0.056	15.5			
156.25 - 165.65: Disseminated to blebby PO + CP +/- PY in massive intense chlorite and disseminated cordierite alteratior												
<<Min: 156.25 - 165.65 1% Min: Pyrite>> Disseminated to wispy PO + CP +/- PY in strong CL-CI alteration (OJ)				157.50	158.80	1.30	D00004532	0.055	20.8			
<<Min: 156.25 - 165.65 5% Min: Pyrrhotite>> Disseminated to wispy PO + CP +/- PY in strong CL-CI alteration (OJ)				158.80	160.05	1.25	D00004533	0.343	64			
<<Min: 156.25 - 165.65 3% Min: Chalcopyrite>> Disseminated to wispy PO + CP +/- PY in strong CL-CI alteration (OJ)				160.05	161.20	1.15	D00004534	0.975	157			
<<Alt: 156.25 - 165.65 Strong Chlorite>>				161.20	162.30	1.10	D00004535	0.368	67.9			
<<Alt: 156.25 - 165.65 Moderate Cordierite>>				162.30	163.40	1.10	D00004536	0.047	36.5			
<<Vein: 158.97 - 159.1 50% Quartz-Carbonate 50 deg. >> Irregular quartz-carbonate vein with patchy sulfides				163.40	164.50	1.10	D00004537	0.046	33.4			
<<Struc: 162.12 - 162.12 Joint (fracture)>>				164.50	165.65	1.15	D00004538	0.102	34.4			
<<Struc: 163.28 - 163.28 Strong dominant foliation>>												
<<Struc: 164.12 - 164.12 Strong dominant foliation>>												
<<Struc: 164.28 - 164.28 Joint (fracture)>>												
165.65	**166.08**	**RHYva**	**Coarse grained to ash tuff**	165.65	166.08	0.43	D00004539	-0.005	0.3			
165.65 - 166.08: Light grey fine grained ash tuff (?) altered to muscovite and chlorite												
<<Min: 165.65 - 173.13 1% Min: Pyrrhotite>>												
<<Min: 165.65 - 173.13 2% Min: Chalcopyrite>>												
<<Alt: 165.65 - 166.08 Moderate Muscovite>>												
<<Alt: 165.65 - 166.08 Weak Chlorite>>												
166.08	**170.82**	**RHYvl**	**Lapilli tuff**	166.08	167.50	1.42	D00004541	0.01	3.5			
166.08 - 170.82: Siliceous cruds to blebs in chloritic groundmass with minor disseminated to patchy PO + CP												
<<Alt: 166.08 - 170.95 Moderate-Strong Chlorite>>				167.50	168.70	1.20	D00004542	0.028	6.5			
<<Vein: 170.6 - 170.66 100% Quartz 90 deg. >>				168.70	170.20	1.50	D00004543	0.012	1.4			
<<Struc: 168.74 - 168.74 Joint (fracture)>>												
<<Struc: 169.55 - 169.55 Moderate dominant foliation>>												
170.82	**170.95**	**MDSc**	**Carbonaceous dominant mudstone**									
170.95	**173.13**	**RHYva**	**Coarse grained to ash tuff**									
<<Alt: 170.95 - 173.13 Moderate Muscovite>>												
<<Alt: 170.95 - 173.13 Weak-Moderate Chlorite>>												

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm

<<Struc: 172.77 - 172.77 Moderate dominant foliation>>

173.13 186.43 RHYc Undifferentiated coherant rhyolite

<<Min: 173.13 - 190.8 1% Min: Pyrite>>

<<Min: 173.13 - 190.8 3% Min: Pyrrhotite>>

<<Alt: 173.13 - 186.43 Strong Muscovite>>

<<Vein: 181.95 - 182.2 30% Quartz-Tourmaline 15 deg. >>

<<Struc: 174 - 174 Joint (fracture)>>

<<Struc: 174.55 - 174.9 Weak Fault>> Zone with a high density of fractures

<<Struc: 175.7 - 175.7 Joint (fracture)>>

<<Struc: 175.78 - 175.78 Moderate dominant foliation>>

<<Struc: 176 - 176 Orientation Lock Angle>> Lock angle between 176m and 179m

<<Struc: 178.13 - 178.13 Joint (fracture)>>

<<Struc: 178.45 - 178.45 Moderate dominant foliation>>

<<Struc: 179 - 179 Orientation Lock Angle>> Lock angle between 179m and 182m

<<Struc: 179.82 - 179.82 Joint (fracture)>>

<<Struc: 180 - 180 Strong dominant foliation>>

<<Struc: 182 - 182 Orientation Lock Angle>> Lock angle between 182m and 185m

<<Struc: 184.18 - 184.18 Joint (fracture)>>

<<Struc: 185 - 185 Orientation Lock Angle>> Lock angle between 185m and 188m

<<Struc: 185.72 - 185.72 Moderate dominant foliation>>

186.43 197.94 RHYvl Lapilli tuff

<<Min: 190.8 - 192.55 5% Min: Sphalerite>>

<<Min: 190.8 - 192.55 1% Min: Pyrite>>

<<Min: 192.55 - 196.55 0.5% Min: Sphalerite>>

<<Min: 192.55 - 196.55 1% Min: Pyrite>>

<<Min: 192.55 - 196.55 0.5% Min: Pyrrhotite>>

<<Min: 196.55 - 196.82 5% Min: Sphalerite>>

<<Min: 196.55 - 196.82 3% Min: Pyrite>>

<<Min: 196.55 - 196.82 0.5% Min: Chalcopyrite>>

<<Min: 196.82 - 200.06 1% Min: Sphalerite>>

<<Min: 196.82 - 200.06 2% Min: Pyrite>>

<<Alt: 186.43 - 188.4 Moderate Muscovite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm

<<Alt: 188.4 - 196 Strong Muscovite>>

<<Alt: 188.9 - 195 Moderate-Strong Calcite>>

<<Alt: 195 - 221 Weak Calcite>>

<<Alt: 196 - 215.9 Moderate Muscovite>>

<<Vein: 188.4 - 192.7 40% Quartz-Carbonate>>

<<Struc: 187.16 - 187.16 Weak dominant foliation>>

<<Struc: 187.8 - 187.8 Joint (fracture)>>

<<Struc: 188.3 - 188.3 Moderate dominant foliation>>

<<Struc: 188.9 - 191 Weak Fault>> Zone with strong MU alteration, high density of fractures, minor narrow gouge zones, and quartz-calcite veining.

<<Struc: 193.68 - 193.68 Joint (fracture)>>

<<Struc: 193.8 - 193.8 Moderate dominant foliation>>

<<Struc: 193.9 - 193.9 Joint (fracture)>>

<<Struc: 194 - 194 Orientation Lock Angle>> Lock angle between 194m and 197m

<<Struc: 195.96 - 195.96 Joint (fracture)>>

<<Struc: 196.04 - 196.04 Strong dominant foliation>>

<<Struc: 196.74 - 196.8 Weak Fault>>

<<Struc: 197.58 - 197.58 Joint (fracture)>>

197.94 205.06 RHYvl Lapilli tuff

197.94 - 205.06: Large 1-3 cm wide monolithic clasts within a light grey-green groundmass. Clasts may be flattened pumice (?).

<<Min: 200.06 - 200.31 5% Min: Sphalerite>>

<<Min: 200.06 - 200.31 5% Min: Pyrite>>

<<Min: 200.31 - 201.52 0.5% Min: Sphalerite>>

<<Min: 200.31 - 205.06 1% Min: Pyrite>>

<<Min: 201.52 - 201.85 0.5% Min: Chalcopyrite>>

<<Min: 201.52 - 221 1% Min: Pyrrhotite>>

<<Vein: 198.7 - 200.9 60% Quarzt-Chlorite-Carbonate 1 deg. >> Brecciated quartz-carbonate vein with chloritic groundmass

<<Struc: 199.94 - 199.94 Weak dominant foliation>>

<<Struc: 200.5 - 200.55 Weak Fault>>

<<Struc: 201.43 - 201.43 Joint (fracture)>>

<<Struc: 201.48 - 201.48 Moderate dominant foliation>>

<<Struc: 203 - 203 Orientation Lock Angle>> Lock angle between 203m and 206m

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	Pb ppm	Mo ppm

<<Struc: 204.24 - 204.24 Joint (fracture)>>

<<Struc: 204.33 - 204.33 Strong dominant foliation>>

205.06 221.00 RHYvl Lapilli tuff

<<Vein: 207.75 - 211.75 3% Quartz-Carbonate 60 deg. >> Zone of irregular quartz +/- carbonate veins spaced ~0.5 m veins

<<Struc: 208.25 - 208.25 Weak dominant foliation>>

<<Struc: 208.31 - 208.31 Joint (fracture)>>

<<Struc: 209 - 209 Orientation Lock Angle>> Lock angle between 209m and 211m

<<Struc: 209.4 - 209.41 Weak Fault>>

<<Struc: 211.28 - 211.28 Joint (fracture)>>

<<Struc: 211.35 - 211.35 Moderate dominant foliation>>

<<Struc: 212.24 - 212.7 Weak Fault>> 2 narrow (~2 cm wide) gouge zones.

<<Struc: 214.74 - 214.74 Joint (fracture)>>

<<Struc: 214.78 - 214.78 Weak dominant foliation>>

<<Struc: 215 - 215 Orientation Lock Angle>> Lock angle between 215m and 218m

<<Struc: 216.39 - 216.39 Moderate dominant foliation>>

<<Struc: 216.44 - 216.44 Joint (fracture)>>

<<Struc: 220 - 220 Orientation Lock Angle>> Lock angle between 194m and 197m

<<Struc: 220.65 - 220.65 Joint (fracture)>>

<<Struc: 220.74 - 220.74 Strong dominant foliation>>

End of Hole @ 221

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-423

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/1/2017
UTM Easting	414145.9315	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/2/2017
UTM Northing:	6817924.988	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1475.484	Casing Depth (m):	1.59	Length (m):	40.79	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	6/29/2017
Local Northing:		Cemented?:	THM	Core Storage Loc.:	KZK Camp	Drill Completed:	6/30/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
						Parent Hole:	

Comments:

K17-423 was drilled to evaluate geotechnical and hydrogeological characteristics for the proposed Class A storage facility. Core comprises intercalated mafic volcaniclastic and mudstone of the Wind Lake Formation, with high calcareous content in the form of calcite bands and veins.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	6/29/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 1.49 OVBN Overburden

1.49 28.40 MAFt Undifferentiated mafic volcaniclastic

1.49 - 28.4: Package of mafic volcaniclastics with minor chlorite in groundmass. Weak to non-foliated and variable modes & crystal sizes of biotite and calcite throughout the unit. Biotite modes range from 0-40% with crystals up to 2mm. 1mm ankerite crystals can be present up to 20% of mode. Calcite banding =< 1cm can be present concordant to the foliation, and larger (up to 0.7m) calcite/quartz veins present discordant to foliation.

<<Min: 1.49 - 20.76 0.1% Min: Pyrrhotite>>

<<Min: 20.76 - 21.5 1% Min: Pyrite>> Some cubic pyrite crystals up to 5mm

<<Min: 22.49 - 40.79 0.1% Min: Pyrrhotite>>

<<Alt: 1.49 - 40.79 Weak Calcite>> Calcite bands/foliations (at variable thickness) throughout all units. Accounts for ~4% of total mode.

<<Vein: 2.07 - 20.5 5% Quartz-Carbonate 55 deg. >> Quartz/Calcite veins with variable relative abundance. Mostly concordant with the foliation however discordant veins are present. Most are ~1cm however large veins up to 18cm are present.

<<Vein: 20.76 - 22.49 70% Quarzt-Tourmaline-Sulphide>> Irregular quartz-tourmaline-sulphide-calcite-muscovite vein orientated along the core axis. Muscovite is present in a massive texture while the other minerals are intertwined.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 23.07 - 30.82 4% Quartz-Carbonate 60 deg. >> Quartz/Calcite veins with variable relative abundance. Mostly concordant with the foliation however discordant veins are present. Most are ~1cm however large veins up to 8cm are present.

28.40 37.38 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

28.4 - 37.38: Laminated mudstone with high abundance of calcite. Calcite can be present in fine-grained layers as well as coarser lenses/foliations. Graphitic sections are present but overall weakly to moderately graphitic. Laminations are deformed in some sections.

<<Vein: 36.64 - 36.77 25% Calcite>> Irregular shape

37.38 40.79 MAFt **Undifferentiated mafic volcaniclastic**

37.38 - 40.79: Mafic volcaniclastic with chlorite & calcite in groundmass. Calcite blebs and layers present and in total account for ~20% of the mode. Speckled biotite crystals ~1mm accounts for 5% of the mode. Appears more chloritic than previous MAFt interval. 1mm ankerite crystals account for 7%.

End of Hole @ 40.79

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-424

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/4/2017
UTM Easting	414640.2206	Core Size:	HQ3	Azimuth:	280	Date Logging Complete:	7/7/2017
UTM Northing:	6815499.555	Casing Pulled?:	Yes	Dip:	-60	Drill Company:	New Age
UTM Elev. (m):	1432.891	Casing Depth (m):	6	Length (m):	170	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/1/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/3/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-424 was drilled to study the geotechnical properties of the proposed open pit high-wall. Optical and acoustic televiewer surveys were completed in the borehole.
Overburden extended to 4 m depth. Hanging wall felsic volcanic and meta-sedimentary rocks extend to 134.59 m depth, with moderate to strong muscovite +/- patchy chlorite alteration from 120.72 m to 133.59 m. Strong to intense cordierite exists from 133.59 m to 135.6 m. From 134.59 m to 138.22 m, semi-massive (OC) and massive sulfide (OA) occurs. The footwall of the mineralization consist of strongly muscovite/sericite-altered rhyolites and mafic intrusives (158.93-163.35 m and 164.43-165.07 m) to a depth of 170 m.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-60	280	0	280	PLND-LiDAR	Trent Newkirk	7/1/2017		☑	
14	-60.4	257.6	21.7	279.3	EZ-TRAC	New Age	7/1/2017	58704	☑	
26	-61.1	255.1	21.7	276.8	EZ-TRAC	New Age	7/1/2017	58035	☑	
50	-62	250.9	21.7	272.6	EZ-TRAC	New Age	7/2/2017	57904	☑	
75	-63.9	249	21.7	270.7	EZ-TRAC	New Age	7/2/2017	58437	☑	
100	-64.9	246.8	21.7	268.5	EZ-TRAC	New Age	7/2/2017	58296	☑	
125	-65.3	246	21.7	267.7	EZ-TRAC	New Age	7/2/2017	58859	☑	
150	-66.3	249.5	21.7	271.2	EZ-TRAC	New Age	7/2/2017	57516	☑	
170	-66.9	247.6	21.7	269.3	EZ-TRAC	New Age	7/3/2017	57843	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.00**	**OVBN Overburden**									
4.00	**5.84**	**RHYv Undifferentiated Rhyolite volcaniclastic**									

4 - 5.84: Strongly oxidized volcaniclastic rhyolite

<<Min: 4 - 52.28 1% Min: Pyrite>>

<<Min: 4 - 52.28 1% Min: Pyrrhotite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Alt: 4 - 158.93 Weak Calcite>>

5.84 8.95 MDSt Rhyolite tuff dominant mudstone

5.84 - 8.95: Thinly laminated mudstone and rhyolite with a strongly developed cleavage.

<<Alt: 8.45 - 45 Weak Muscovite>>

<<Vein: 8.55 - 10.15 100% Quartz-Carbonate 25 deg. >> Massive low angle (TCA) quartz-carbonate vein in faulted contact between MDSt and RHY.

8.95 13.92 RHY undifferentiated rhyolite

8.95 - 13.92: Yellowish-green, fine-grained rhyolite tuff with minor flow banding? Moderate-strong muscovite alteration.

<<Struc: 8.95 - 9.5 Moderate Fault>> Gougey-fault zone. Contact between MDSt and RHY. Quartz veining occurs within fault zone.

<<Struc: 13.85 - 13.85 Joint (fracture)>>

13.92 25.60 MDSt Rhyolite tuff dominant mudstone

13.92 - 25.6: Intercalated ash tuff, siltstone, and argillic mudstone. Moderate-strong muscovite alteration.

<<Struc: 13.97 - 13.97 Moderate dominant foliation>>

<<Struc: 15.53 - 15.53 Weak dominant foliation>>

<<Struc: 15.66 - 15.66 Joint (fracture)>>

<<Struc: 17.73 - 17.73 Strong dominant foliation>>

<<Struc: 17.96 - 17.96 Joint (fracture)>>

<<Struc: 18.3 - 18.35 Moderate Fault>> Narrow zone of Clay-sericite gouge in fracture

<<Struc: 22.12 - 22.12 Joint (fracture)>>

<<Struc: 22.19 - 22.19 Weak dominant foliation>>

<<Struc: 25.27 - 25.27 Joint (fracture)>>

<<Struc: 25.31 - 25.31 Moderate dominant foliation>>

25.60 28.00 RHYva Coarse grained to ash tuff

25.6 - 28: Light grey fine grained ash tuff

28.00 32.00 MDSt Rhyolite tuff dominant mudstone

28 - 32: Light to medium grey, mixed ash ruff and carbonaceous material.

<<Struc: 28.97 - 28.97 Weak dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 31.5 - 32.5 Weak Fault>> Zone of broken rock with high density of fractures and minor clay-sericite fault gouge.

32.00 36.56 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

32 - 36.56: Flow banded rhyolite

<<Vein: 32.8 - 33.4 10% Quartz-Carbonate 60 deg. >> Zone with 3 ~1 to 5 cm wide quartz-carbonate veins

<<Vein: 34.58 - 34.66 100% Quartz-Carbonate 70 deg. >> Massive quartz-carbonate vein with undulose vein margins

<<Struc: 33.67 - 33.67 Strong dominant foliation>>

<<Struc: 33.77 - 33.77 Joint (fracture)>>

36.56 49.92 RHYva Coarse grained to ash tuff

36.56 - 49.92: Light grey-green, fine grained ash tuff with minor lapilli

<<Vein: 48.05 - 49.15 25% Quartz-Carbonate 60 deg. >> Zone with 3 irregular/blebby quartz-carbonate veins (~10 cm wide each). Veins have minor patchy PY + PO + SP.

<<Struc: 37.85 - 37.85 Strong dominant foliation>>

<<Struc: 37.91 - 37.91 Joint (fracture)>>

<<Struc: 40.04 - 40.12 Moderate Fault>> Band of fault-gouge supported breccia

<<Struc: 40.44 - 40.47 Weak-Moderate Fault>> Band of minor clay-sericite fault gouge

<<Struc: 40.85 - 40.85 Joint (fracture)>>

<<Struc: 40.93 - 40.93 Weak dominant foliation>>

<<Struc: 42.81 - 42.81 Joint (fracture)>>

<<Struc: 42.9 - 42.9 Weak dominant foliation>>

<<Struc: 44 - 44 Orientation Lock Angle>> Lock angle between 44m and 47m

<<Struc: 45.22 - 45.22 Joint (fracture)>>

<<Struc: 46.95 - 46.95 Moderate dominant foliation>>

<<Struc: 47 - 47 Orientation Lock Angle>> lock angle between 47m and 50m

<<Struc: 47.79 - 47.79 Joint (fracture)>>

<<Struc: 47.88 - 47.88 Strong dominant foliation>>

49.92 63.97 RHYvl Lapilli tuff

49.92 - 63.97: Light grey to white coloured matrix-supported felsic lapilli in fine grained grey ashy matrix.

<<Min: 52.28 - 52.52 20% Min: Pyrite>>

<<Min: 52.28 - 52.52 2% Min: Pyrrhotite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 52.52 - 131.76 2% Min: Pyrrhotite>>

<<Min: 52.52 - 133.59 1% Min: Pyrite>>

<<Vein: 62.56 - 62.57 50% Quarzt-Tourmaline-Sulphide 25 deg. >> ~ 5 mm wide TML-CA-QZ-PO veinlet in an jagged brittle fracture. Low angle TCA.

<<Struc: 50 - 50 Orientation Lock Angle>> lock angle between 50m and 53m

<<Struc: 51.81 - 51.81 Joint (fracture)>>

<<Struc: 52.63 - 52.63 Moderate dominant foliation>>

<<Struc: 54.91 - 54.91 Joint (fracture)>>

<<Struc: 55.03 - 55.03 Weak dominant foliation>>

<<Struc: 56 - 56 Orientation Lock Angle>> lock angle between 56m and 59m

<<Struc: 57.39 - 57.39 Joint (fracture)>>

<<Struc: 57.48 - 57.48 Moderate dominant foliation>>

<<Struc: 59.8 - 59.9 Weak Fault>> Broken rock with minor clay-sericite fault gouge

<<Struc: 61.47 - 61.47 Joint (fracture)>>

<<Struc: 61.5 - 61.5 Weak dominant foliation>>

63.97 70.82 SED Undifferentiated sedimentary rock

63.97 - 70.82: Light grey, intercalated sand and siltstone with well developed spaced cleavage

<<Vein: 63.97 - 70.82 3% Quartz-Carbonate 70 deg. >> Zone with some thin (<1 cm wide) irregular quartz-carbonate veinlets

<<Struc: 64.61 - 64.61 Joint (fracture)>>

<<Struc: 64.68 - 64.68 Moderate dominant foliation>>

<<Struc: 65 - 65 Orientation Lock Angle>> lock angle between 65m and 68m

<<Struc: 66.2 - 66.2 Moderate dominant foliation>>

<<Struc: 68 - 68 Orientation Lock Angle>> lock angle between 68m and 71m

70.82 84.46 RHYvl Lapilli tuff

70.82 - 84.46: White, matrix-supported, siliceous blebby lapilli in a fine grained grey ash/sericitic groundmass.

<<Struc: 70.89 - 70.89 Moderate dominant foliation>>

<<Struc: 70.95 - 70.95 Joint (fracture)>>

<<Struc: 71 - 71 Orientation Lock Angle>> Lock angle between 71m and 74m

<<Struc: 71.46 - 71.46 Joint (fracture)>>

<<Struc: 71.56 - 71.56 Moderate dominant foliation>>

<<Struc: 76.59 - 76.59 Joint (fracture)>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 76.68 - 76.68 Moderate dominant foliation>>

<<Struc: 79.23 - 79.23 Joint (fracture)>>

<<Struc: 79.27 - 79.27 Weak dominant foliation>>

<<Struc: 80 - 80 Orientation Lock Angle>> Lock angle between 80m and 83m

<<Struc: 82.41 - 82.41 Joint (fracture)>>

<<Struc: 82.52 - 82.52 Weak dominant foliation>>

84.46 93.45 MDSt Rhyolite tuff dominant mudstone

84.46 - 93.45: Light to medium grey, rhyolitic tuff with mixed in to bands of carbonaceous material.

<<Struc: 85.48 - 85.48 Moderate dominant foliation>>

<<Struc: 85.63 - 85.63 Joint (fracture)>> Unable to orient entire run between 86m and 89m. No lock angle

<<Struc: 88.2 - 88.2 Weak dominant foliation>>

<<Struc: 88.28 - 88.28 Joint (fracture)>>

<<Struc: 89.55 - 89.9 Weak-Moderate Fault>> Broken zone with minor gouge surfaces and fracturing parallel to foliation

<<Struc: 91.97 - 91.97 Weak dominant foliation>>

<<Struc: 92 - 92 Joint (fracture)>>

<<Struc: 93.35 - 93.45 Weak-Moderate Fault>> Broken zone and minor fault gouge. Faulted contact between MDSt and RHYcw

93.45 95.75 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

93.45 - 95.75: Light grey, siliceous, flow-banded rhyolite

<<Vein: 94.4 - 102.6 2% Quartz-Carbonate 70 deg. >> Zone with minor quartz-carbonate veining

<<Struc: 93.98 - 93.98 Joint (fracture)>>

<<Struc: 94.05 - 94.05 Moderate dominant foliation>>

95.75 107.00 RHYv Undifferentiated Rhyolite volcaniclastic

95.75 - 107: Light grey qz-mu schist. Ash to lapilli tuff. High density of fractures throughout, low RQD, and zones with clay-sericite gouge surfaces.

<<Alt: 95.75 - 120.72 Weak Muscovite>> Weak yellowish-green to white muscovite cleavages

<<Struc: 96.65 - 96.85 Weak Fault>> Broken zone with some fault gouge

<<Struc: 97.81 - 97.81 Weak dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 97.85 - 97.85 Joint (fracture)>>

<<Struc: 101 - 102.5 Weak Fault>> Broken zone with some clay-sericite fault gouge

<<Struc: 103.5 - 103.8 Moderate Fault>> Broken rock with clay-sericite fault gouge

107.00 108.04 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

107 - 108.04: Light to medium grey, flow-banded rhyolite.

108.04 111.27 MDSt Rhyolite tuff dominant mudstone

108.04 - 111.27: Intercalated to mixed argillic mudstone and ashy rhyolite tuffs

<<Struc: 109.96 - 109.96 Weak dominant foliation>>

<<Struc: 110 - 110 Joint (fracture)>>

111.27 112.30 MDSc Carbonaceous dominant mudstone

111.27 - 112.3: Black, finely laminated, siliceous-argillic mudstone.

<<Vein: 111.3 - 114 3% Quartz 70 deg. >> Zone with minor narrow (<1 cm wide) irregular quartz veins

112.30 120.72 MDSt Rhyolite tuff dominant mudstone

112.3 - 120.72: Medium grey, intercalated fine layers of carbonaceous and siliceous material which is contorted. Overprinting crenulation cleavage cuts the primary contorted bedding/layering. Primary bedding/layering is subparallel to the core axis and the crenulation cleavage is at ~60 degrees TCA.

<<Struc: 115.88 - 115.88 Strong dominant foliation>>

<<Struc: 115.94 - 115.94 Joint (fracture)>>

<<Struc: 120.69 - 121.69 Moderate dominant foliation>>

120.72 127.89 RHY undifferentiated rhyolite

120.72 - 127.89: Beige to greenish, strongly MU-altered rhyolite (?) with contorted texture. Local blebby silica and chlorite exists.

<<Min: 123.25 - 127.89 2% Min: Sphalerite>>

<<Alt: 120.72 - 133.59 Moderate Muscovite>> Yellowish-green MU cleavages. From 123.25 m down CL patches begin to occur.

<<Alt: 123.25 - 124.4 Weak-Moderate Ankerite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 123.25 - 133.59 Weak-Moderate Chlorite>>									
		<<Vein: 123.25 - 124.3 5% Quartz-Carbonate 70 deg. >> Zone with ~1-2 cm wide irregular quartz-carbonate veins.									
		<<Vein: 125.4 - 127 0.5% Tourmaline 15 deg. >> Zone with narrow (~3 mm wide) brittle fractures with TML-SP-PY infill									
		<<Struc: 122 - 122 Orientation Lock Angle>> Lock angle between 122m and 125m									
		<<Struc: 124.58 - 124.58 Weak dominant foliation>>									
127.89	**130.21**	**MDSt** **Rhyolite tuff dominant mudstone**									
		127.89 - 130.21: Light to medium grey, silica-muscovite-carbonaceous schist, with microlithons composed of quartz-muscovite and cleavages of carbonaceous material. Potentially a deformed fine-grained ash-rich tuff with carbonaceous sedimentary input.									
		<<Struc: 128.65 - 128.65 Weak dominant foliation>>									
130.21	**133.59**	**RHY** **undifferentiated rhyolite**	130.89	132.10	1.21	D00004544	-0.005	2.2	0.1	0.07	0.36
		130.21 - 133.59: Beige to green, strongly MU +/- CL-altered rhyolite schist. Large QZ-TML-CP-PO vein from 131.76-132.4 m.									
		<<Min: 131.76 - 132.4 2% Min: Pyrrhotite>>	132.10	133.59	1.49	D00004545	0.017	14.3	0.84	0.02	1.97
		<<Min: 131.76 - 132.4 5% Min: Chalcopyrite>>									
		<<Min: 132.4 - 133.59 2% Min: Pyrrhotite>>									
		<<Vein: 131.76 - 132.4 50% Quartz-Sulphide 0 deg. >> Massive quartz vein with patchy to wispy TML. Disseminated to patchy CP + PO. Sub-parallel to core axis									
		<<Struc: 131 - 131 Orientation Lock Angle>> Lock angle between 131m and 134m									
		<<Struc: 133.35 - 133.35 Strong dominant foliation>>									
133.59	**134.54**	**RHY** **undifferentiated rhyolite**	133.59	134.54	0.95	D00004546	0.006	4.2	0.15	0.02	0.19
		133.59 - 134.54: CI-agglomerate with a SP + PO +/- CP matrix.									
		<<Min: 133.59 - 134.54 5% Min: Sphalerite>> SP + PO +/- CP interstitial to CI-aggregate									
		<<Min: 133.59 - 134.54 2% Min: Pyrrhotite>> SP + PO +/- CP interstitial to CI-aggregate									
		<<Min: 133.59 - 134.54 1% Min: Chalcopyrite>> SP + PO +/- CP interstitial to CI-aggregate									
		<<Alt: 133.59 - 135.6 Strong Cordierite>>									
		<<Vein: 133.7 - 133.9 50% Quartz 35 deg. >> Irregular quartz veining									
		<<Struc: 134 - 134 Orientation Lock Angle>> Lock angle between 134m and 137m									

From (m)	To (m)		Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
134.54	**135.60**	**OC**	**Chalcopyrite-pyrrhotite net textured sulphides**	134.54	135.60	1.06	D00004547	0.203	53.1	1.74	0.34	10.4
134.54 - 135.6: Semi-massive to massive PO + SP + CP +/- PY in cordierite +/- chlorite groundmass.												
<<Min: 134.54 - 135.6 10% Min: Sphalerite>> Patchy massive PO + SP + CP + PY in intensely CI-altered rock												
<<Min: 134.54 - 135.6 5% Min: Pyrite>> Patchy massive PO + SP + CP + PY in intensely CI-altered rock												
<<Min: 134.54 - 135.6 25% Min: Pyrrhotite>> Patchy massive PO + SP + CP + PY in intensely CI-altered rock												
<<Min: 134.54 - 135.6 5% Min: Chalcopyrite>> Patchy massive PO + SP + CP + PY in intensely CI-altered rock												
135.60	**137.60**	**OA**	**Laminar or heavilly disseminated magnetite bearing massive sulphide**	135.60	136.62	1.02	D00004548	0.136	8.7	0.73	0.02	7.16
135.6 - 137.6: Semi-massive to massive PY with disseminated MG + PO + SP +/- CP. Local coarse grained buckshot pyrite occurs.												
<<Min: 135.6 - 137.6 3% Min: Sphalerite>> Semi-massive to massive PY with disseminated MG + PO + SP +/- CP. Local coarse grained buckshot pyrite occurs.				136.62	137.60	0.98	D00004549	0.411	22.4	2.51	0.03	0.52
<<Min: 135.6 - 137.6 60% Min: Pyrite>> Semi-massive to massive PY with disseminated MG + PO + SP +/- CP. Local coarse grained buckshot pyrite occurs.												
<<Min: 135.6 - 137.6 5% Min: Pyrrhotite>> Semi-massive to massive PY with disseminated MG + PO + SP +/- CP. Local coarse grained buckshot pyrite occurs.												
<<Min: 135.6 - 137.6 10% Min: Magnetite>> Semi-massive to massive PY with disseminated MG + PO + SP +/- CP. Local coarse grained buckshot pyrite occurs.												
<<Min: 135.6 - 137.6 1% Min: Chalcopyrite>> Semi-massive to massive PY with disseminated MG + PO + SP +/- CP. Local coarse grained buckshot pyrite occurs.												
<<Alt: 135.6 - 140.83 Weak-Moderate Chlorite>>												
<<Struc: 136.42 - 136.42 Moderate dominant foliation>>												
<<Struc: 137 - 137 Orientation Lock Angle>> Lock angle between 137m and 140m												
137.60	**138.22**	**OC**	**Chalcopyrite-pyrrhotite net textured sulphides**	137.60	138.22	0.62	D00004551	0.296	19.8	1.93	0.05	0.25
137.6 - 138.22: Semi-massive to patchy PO + CP + PY in CI + CL + AK altered groundmass												
<<Min: 137.6 - 138.22 5% Min: Pyrite>> Semi-massive to patchy PO + CP + PY in CI + CL + AK altered groundmass												
<<Min: 137.6 - 138.22 25% Min: Pyrrhotite>> Semi-massive to patchy PO + CP + PY in CI + CL + AK altered groundmass												
<<Min: 137.6 - 138.22 5% Min: Chalcopyrite>> Semi-massive to patchy PO + CP + PY in CI + CL + AK altered groundmass												

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
138.22	**139.60**	**RHY** **undifferentiated rhyolite**	138.22	139.60	1.38	D00004552	-0.005	1.1	0.03	-0.01	0.14
138.22 - 139.6: Beige and green, CL-MU-AK-SI schist with contoured AK blebs and CL-MU-SI foliation/cleavage.											
<<Min: 138.22 - 158.93 2% Min: Pyrite>>											
<<Alt: 138.22 - 139.6 Moderate Ankerite>>											
<<Alt: 138.22 - 140.83 Moderate Muscovite>>											
<<Struc: 138.35 - 138.35 Strong dominant foliation>>											
139.60	**158.93**	**RHY** **undifferentiated rhyolite**	139.60	140.85	1.25	D00004553	0.009	1.5	0.02	-0.01	0.01
139.6 - 158.93: Yellowish, quartz-muscovite schist with well developed yellowish sericite cleavages and siliceous microlithons. Strong MU-alteration.											
<<Alt: 140.83 - 158.93 Strong Muscovite>>			140.85	142.35	1.50	D00004554	0.009	1.1	-0.01	0.01	-0.01
<<Vein: 143 - 147 5% Quartz 60 deg. >> Zone with deformed irregular quartz veins varying from 1-10 cm wide.											
<<Vein: 158 - 165.07 10% Calcium carbonate/Carbonate 70 deg. >> Zone with calcite +/- quartz veinlets											
<<Struc: 140 - 140 Orientation Lock Angle>> Lock angle between 140m and 143m											
<<Struc: 140.1 - 140.1 Strong dominant foliation>>											
<<Struc: 143 - 143 Orientation Lock Angle>> Lock angle between 143m and 146m											
<<Struc: 143.94 - 143.94 Weak dominant foliation>>											
<<Struc: 146 - 146 Orientation Lock Angle>> Lock angle between 146m and 149m											
<<Struc: 147.33 - 147.33 Joint (fracture)>>											
<<Struc: 147.5 - 147.5 Moderate dominant foliation>>											
<<Struc: 149 - 149 Orientation Lock Angle>> Lock angle between 149m and 152m											
<<Struc: 151.82 - 151.82 Strong dominant foliation>>											
<<Struc: 152.31 - 152.31 Joint (fracture)>>											
<<Struc: 155.09 - 155.09 Moderate dominant foliation>>											
<<Struc: 157 - 157 Joint (fracture)>>											
<<Struc: 157.56 - 157.6 Weak Fault>> Narrow fault gouge zone											
<<Struc: 158.58 - 158.58 Strong dominant foliation>>											
158.93	**163.35**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**									
158.93 - 163.35: Dark green, fine grained, CL-BI schist with blebby to banded CA.											
<<Alt: 158.93 - 163.35 Moderate-Strong Calcite>>											
<<Struc: 163.08 - 163.08 Moderate dominant foliation>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

163.35 164.43 RHY undifferentiated rhyolite

163.35 - 164.43: Yellowish-green, QZ-MU schist with strong MU-alteration. Banded to patchy silica. Potentially a RHYc in the middle of the MAFi (?).

<<Min: 163.35 - 170 2% Min: Sphalerite>>

<<Min: 163.35 - 170 3% Min: Pyrite>>

<<Alt: 163.35 - 164.43 Strong Muscovite>>

<<Alt: 163.35 - 164.43 Weak Calcite>>

<<Struc: 164 - 164 Orientation Lock Angle>> Lock angle between 164m and 167m

164.43 165.07 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

164.43 - 165.07: Dark green, fine grained, CL-BI schist with blebby to banded CA.

<<Alt: 164.43 - 165.07 Moderate-Strong Calcite>>

165.07 170.00 RHY undifferentiated rhyolite

165.07 - 170: Yellowish, quartz-muscovite schist with well developed yellowish sericite cleavages and siliceous microlithons. Strong MU-alteration.

<<Alt: 165.07 - 170 Strong Muscovite>>

<<Alt: 165.07 - 170 Weak Calcite>>

<<Vein: 165.8 - 169.6 20% Quartz-Carbonate 70 deg. >> Zone of irregular quartz veins with an average width of 5 cm

<<Struc: 166.25 - 166.25 Moderate dominant foliation>>

<<Struc: 167.34 - 167.34 Moderate dominant foliation>>

End of Hole @ 170

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-425

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/3/2017
UTM Easting	414603.3505	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/4/2017
UTM Northing:	6816985.395	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1430.601	Casing Depth (m):	1.8	Length (m):	40.82	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/1/2017
Local Northing:		Cemented?:	THM	Core Storage Loc.:	KZK Camp	Drill Completed:	7/2/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
						Parent Hole:	

Comments:

K17-425 was drilled for geotechnical and hydrogeological studies for the proposed Class B storage facility. Lithology is predominately a large carbonaceous mudstone package with minor intercalations of mafic volcaniclastic. Numerous faults, with moderate to strong intensity, occur throughout the hole.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/1/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 1.80 OVBN Overburden

1.80 6.32 MAFt Undifferentiated mafic volcaniclastic

1.8 - 6.32: Heavily oxidized mafic volcaniclastic with intercalated mudstone no greater than 13 cm. Quartz-Carbonate veins are present up to 20 cm. Foliated muscovite-dominated interval present at the bottom of the sequence and has a sharp contact with the underlying mudstone unit.

<<Min: 6.12 - 6.32 2% Min: Pyrite>> Hosted in carbonate veins or veinlets in the volcaniclastic

<<Alt: 1.8 - 40.82 Moderate Calcite>> Primarily 1mm to 8mm bands of calcite concordant to the laminations of mudstone. Quartz-Carbonate veins also up to 8cm in the mafic volcaniclastic and mudstone, with greater abundance in the mafic unit.

<<Vein: 1.8 - 40.82 5% Quartz-Carbonate 80 deg. >> Quartz calcite veins typically 1 mm to 1 cm concordant with mudstone laminations and weak foliation of the mafic volcaniclastics. Quartz to Calcite ratio within the veins vary but is predominantly calcite. Abundance of the veins increase in the mafic volcaniclastics.

Larger 2-20 cm Quartz/Calcite veins also occur and are spread out over the hole (no closer than half a meter apart).

<<Vein: 1.8 - 40.82 0.1% Calcite-Ankerite>> Stringy carbonate veins 1 mm to 3mm in size cross-cutting mudstone laminations.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 3.32 - 6.12 Moderate Fault>> Fault zone with intervals of heavily fractured material in both the mudstone and mafic volcaniclastic units. Fault gouge present in an interval at ~5.5 m depth.

6.32 8.00 MDSc Carbonaceous dominant mudstone

6.32 - 8: Dark laminated mudstone with high calcareous content. Calcareous occurs as bands concordant to the laminations as well as wispy/stringy veinlets cross-cutting. Mudstone/Calcite deformed and folded in some sections. Sharp contacts with overlying and underlying mafic units.

8.00 10.25 MAFt Undifferentiated mafic volcaniclastic

8 - 10.25: Mafic volcanicastic with high carbonate content. Calcite occurs as bands (up to 9cm) concordant to the foliation as well as in the groundmass. Chlorite in groundmass gives the rock unit a pale olive-green colour.

10.25 11.33 MDSc Carbonaceous dominant mudstone

10.25 - 11.33: Dark laminated mudstone with high calcareous content. 5 cm Quartz-Calcite veins and wispy/stringy calcite bands occur concordant to laminations. Fault occurs in muscovite-banded section at ~10.75 m depth. Upper and lower contacts are sharp with the mafic volcaniclastic unit.

<<Struc: 10.37 - 10.65 Moderate Fault>> Fault-gouge present.

11.33 12.69 MAFt Undifferentiated mafic volcaniclastic

11.33 - 12.69: Mafic volcaniclastic, pale olive-green colour with chlorite and calcite in groundmass. Calcite also occurs in bands/globs. Muscovite alteration occurs gradationally near the contacts with the overlying & underlying contacts (strengthens towards the contacts).

12.69 40.82 MDSc Carbonaceous dominant mudstone

12.69 - 40.82: Dark laminated mudstone with high calcareous content. Carbonate predominately calcite which occurs in bands concordant with the laminations, larger (up to 7 cm) quartz-carbonate veins, and stringy veinlets that cross-cut the laminations. Globs/disseminated sulphide (Po, Py) occur throughout the unit.

Bands of muscovite up to 4 cm occur but are uncommon throughout the unit.

Intercalacted mafic volcaniclastics from 16.23 to 16.60 m depth and 26.14 to 26.42 m depth. Brecciated interval of ankerite occurs from 35.65 to 36.04 m depth. The mafic unit 26.14 to 26.42 m appears to be high in muscovite with 1-3mm Pyrrhotite blebs concordant with the foliation .

<<Min: 15.9 - 40.82 4% Min: Pyrite>> Blebs and veinlets 1 to 7 mm wide and can be centimeters in length. Pyrrhotite becomes more abundant at 36.6 m depth and sulphide abundance gradually increases down the interval.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 35.64 - 36.04 50% Calcite-Ankerite 45 deg. >> Brecciated ankerite veins centimeter scale (up to 3 cm). Some veins appear to be concordant to mudstone laminations however most often indistinguishable due to deformation. Minor calcite (~5% of vein mode)

<<Struc: 17 - 17.22 Moderate-Strong Fault>> Fault gouge with 2mm brecciated mudstone clasts.

<<Struc: 18.17 - 18.22 Moderate-Strong Fault>> Fault gouge & broken mudstone clasts (up to 5 cm).

<<Struc: 19.27 - 19.67 Moderate Fault>> Fault zone with broken mudstone clasts and 1 cm interval of gouge.

<<Struc: 21.5 - 22.72 Moderate-Strong Fault>>

<<Struc: 28.6 - 28.74 Moderate Fault>>

<<Struc: 34.55 - 34.58 Weak Fault>> Fault in muscovite layer

<<Struc: 35.65 - 36.04 Weak-Moderate Fault>> Broken mudstone/ankerite fragments with minor fault gouge (~5% of fault zone). The first 15 cm of the interval is solidified/re-lithified fault breccia and from 35.80 to 36.04 is the reworking of the fault zone.

End of Hole @ 40.82

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-426

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	GPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Knight Piésold	Date Logging Start:	8/4/2017
UTM Easting	414755	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/5/2017
UTM Northing:	6816452	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1440	Casing Depth (m):	6.22	Length (m):	28.9	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/2/2017
Local Northing:		Cemented?:	No	Core Storage Loc.:	KZK Camp	Drill Completed:	7/2/2017
Local Elev. (m):				Hole Completed?:	Abandoned	Purpose:	Hydro
Comments:						Parent Hole:	

K17-426 was drilled for geotechnical and hydrogeological characteristics for the Class B Storage Facility.
Geological units include intercalated mafic volcaniclastics and mudstones with an mafic flow unit in the upper portion of the sequence. Calcite overprint is present throughout the hole and silicification occurs at specific intervals.
Hole abandoned due to sheared drill rods and K17-426B drilled immediately adjacent.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/2/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 6.22 OVBN Overburden

6.22 6.70 MAFt Undifferentiated mafic volcaniclastic

6.22 - 6.7: Pale olive-green mafic volcaniclastic with high Calcite abundance. Calcite blebs and veins to 5 mm present throughout unit. Speckled Biotite crystals up to 1 mm present throughout the unit. Calcite-chlorite dominated matrix.

<<Min: 6.22 - 28.9 1% Min: Pyrrhotite>> Can also be hosted in small calcite veins. Pyrite can also occur but Pyrrhotite is ~95% of sulphide abundance. In different lithological units the mode can vary from 0.1 to 4%.

<<Alt: 6.22 - 28.9 Moderate Calcite>> Banded and veins/globs that occur concordant or discordant to the foliation/lamination.

<<Vein: 6.55 - 28.9 5% Quartz-Carbonate 70 deg. >> Quartz-carbonate veins from 1 to 30 mm concordant with laminations in mudstone and weak foliations in mafic volcaniclastics. In the non-foliated mafic flow unit veins are a distinct orientation however don't follow structures in the lithology. Most veins are 1 to 3 mm wide and are commonly folded in silica-altered intervals.

<<Struc: 6.61 - 6.98 Weak-Moderate Fault>> Minor gouge

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

6.70 10.33 MAFw mafic volcanic flows

6.7 - 10.33: Mafic intrusion of high carbonate content. Calcite and Biotite crystals are equigranular at about 1 mm throughout the entirety of the interval. Upper & lower contacts are fractured however appear gradational.

<<Struc: 10.08 - 10.33 Weak Fault>> No gouge but fine-grained fragments

10.33 11.95 MAFt Undifferentiated mafic volcaniclastic

10.33 - 11.95: Tuffaceous mudstone with intercalated mafic volcaniclastics. High calcareous content, high silica in some intervals and varying amount of deformation (weak to high). Original fabrics are not well recognizable in intervals of high deformation and silicification. Calcite veins folded at ~1 cm wavelengths.

<<Alt: 10.33 - 11.5 Weak-Moderate Silicification>> Irregular siliceous globs surrounded by fine calcite.

<<Alt: 10.33 - 11.5 Weak-Moderate Muscovite>>

11.95 13.50 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

11.95 - 13.5: Mudstone with ~1 mm laminations and carbonate blebs/veins. Moderate oxidation on most of carbonate blebs/veins.

<<Struc: 13.06 - 13.18 Weak-Moderate Fault>> Minor gouge.

13.50 18.58 MAFt Undifferentiated mafic volcaniclastic

13.5 - 18.58: Mafic volcaniclastic with silicification (down to 17.55 m depth) and deformation. Chlorite and calcite in matrix as well as deformed calcite veins/blebs. Calcite is folded in some sections. In un-silicified interval the matrix is dominated by Chlorite and Calcite, and 1 mm calcite crystals occur.

<<Alt: 13.5 - 14.52 Moderate Silicification>> Irregular siliceous globs surrounded by fine calcite.

<<Struc: 15.14 - 15.2 Moderate Fault>> Abundant clay in fracture

18.58 20.73 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

18.58 - 20.73: Laminated mudstone with intercalated mafic volcaniclastics. High calcareous overprint and strong deformation in some intervals to which the original laminations are near indistinguishable. Calcareous content is typically irregular bands (from deformation).

<<Struc: 20.48 - 20.58 Weak Fault>> No gouge but abundant fine-grained fragments

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

20.73 21.65 MAFt Undifferentiated mafic volcaniclastic

20.73 - 21.65: Pale olive-green colour and weakly foliated with minimal deformation. 1 mm or less crystal calcite with calcite bands.

21.65 28.90 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

21.65 - 28.9: Laminated mudstone with intercalated mafic volcaniclastics (up to 15 cm) and relatively undeformed. High carbonaceous content that increases in intensity towards the bottom of the interval. Light-grey calcite bands concordant to laminations occur where there is no carbonaceous laminations. Elongated sulphide blebs no greater than 1 cm occur concordant with foliation and make up ~2% of the mode.

<<Struc: 24.86 - 24.96 Weak-Moderate Fault>> Small fracture with minor gouge

<<Struc: 25.28 - 25.29 Weak-Moderate Fault>> Very small fracture with gouge

End of Hole @ 28.9

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-426B

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/5/2017
UTM Easting	414761.4687	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/6/2017
UTM Northing:	6816450.31	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1438.913	Casing Depth (m):	7.32	Length (m):	40.48	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/3/2017
Local Northing:		Cemented?:	THM	Core Storage Loc.:	KZK Camp	Drill Completed:	7/4/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
Comments:						Parent Hole:	

K17-426B drilled immediately adjacent to K17-426 (abandoned) for geotechnical and hydrogeological characteristics for the proposed Class B Storage Facility.
The hole consists of intercalated mafic volcanics (volcaniclastics and flows) and mudstone. Silicification is present as localized or pervasive intervals.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/3/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 6.92 OVBN Overburden

6.92 8.08 MAFw mafic volcanic flows

6.92 - 8.08: Medium grey unit with equigranular (~1mm) Biotite throughout the unit with calcite in groundmass and in stringy veins/blebs. Equivalent to upper MAFw unit in K17-426.

<<Min: 6.92 - 25.22 0.5% Min: Pyrrhotite>> Primarily Pyrrhotite with minor Pyrite (~5% of sulphides in interval).

<<Alt: 6.92 - 40.48 Moderate Calcite>> Bands concordant to lamination/foliation and veins concordant or discordant to lamination/foliation.

<<Vein: 6.92 - 40.48 3% Quartz-Carbonate 65 deg. >> Quartz-Calcite veins concordant with laminations & foliations. Vary in size from 1 cm to 1 mm and are often folded. Veins are larger & less abundant in the mafic volcaniclastics than the mudstone units. Stringy veinlets also occur that cross-cut laminations and foliation and comprise about 10% of the veins.

8.08 14.49 MAFt Undifferentiated mafic volcaniclastic

8.08 - 14.49: Pale olive-green mafic volcaniclastic unit with moderate to strong calcite alteration, with calcite and chlorite in groundmass. Speckled Biotite crystals ~1mm comprise of 0 to 25% of the mode in certain intervals. Silicification and calcite veining is also present in specific intervals at differing intensities.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Alt: 8.96 - 17.6 Moderate Silicification>> Localized concentrations of silicification throughout the mafic volcaniclastic unit. Silicified intervals are mixed with calcite. More pervasive silicification at intervals from 14.00 to 14.46 m depth as well as 16.39 to 17.60 m depth.

<<Alt: 9.21 - 14 Weak Muscovite>> Muscovite/Sericite

14.49 16.39 MAFw mafic volcanic flows

14.49 - 16.39: Pale olive-green mafic flow with equigranular biotite and calcite with chlorite + calcite dominated matrix. Biotite + calcite crystals ~1 mm.

16.39 19.64 MAFt Undifferentiated mafic volcaniclastic

16.39 - 19.64: Pale olive-green mafic volcaniclastic unit with moderate to strong calcite alteration, with calcite and chlorite in groundmass. In upper part of sequence from 16.39 m to 17.70 m depth strong calcite alteration and silicification is present and higher abundance of chlorite in groundmass. Biotite mode increases to ~20% over that interval. Over remaining depth to 19.64 m the unit has calcite alteration similar to other MAFt units.

19.64 22.48 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

19.64 - 22.48: Laminated mudstone with intercalations of MAFt <4 cm. Irregular calcite bands concordant with laminations.

22.48 25.22 MAFt Undifferentiated mafic volcaniclastic

22.48 - 25.22: Mafic volcaniclastics (pale olive-green colour) with intercalated mudstone < 9 cm. Irregular calcite bands & veins (some folded) are concordant or discordant with the weak foliation.

25.22 40.48 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

25.22 - 40.48: Package of dark grey laminated mudstone with calcite and siliceous bands & veins concordant or discordant to the laminations. Localized deformation occurs in which veins can be folded, and some discordant veins showing brittle deformation.

<<Min: 25.22 - 40.48 1% Min: Pyrite>> Primarily concentrated in quartz-calcite veins but also found hosted in lithology. Up to 1.5 cm in size.

<<Alt: 26.3 - 40.48 Weak Silicification>> Silicification into mudstone laminations.

End of Hole @ 40.48

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-427

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/8/2017
UTM Easting	414754.7026	Core Size:	HQ3	Azimuth:	315	Date Logging Complete:	7/13/2017
UTM Northing:	6815752.13	Casing Pulled?:	Yes	Dip:	-60	Drill Company:	New Age
UTM Elev. (m):	1410.856	Casing Depth (m):	6	Length (m):	152	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/4/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/6/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-427 was drilled to study the geotechnical properties of the proposed open pit high-wall. Optical and acoustic televiewer surveys were completed in the borehole.
Overburden extended to 4.22 m. Throughout the entire hole a package of intercalated felsic volcanic, meta-pelites, and carbonaceous units occurs. Weak to moderate muscovite alteration occurs from 141 m to 152 m (EOH).

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-60	315	0	315	PLND-LiDAR	Trent Newkirk	7/4/2017		☑	
14	-60.3	288.3	21.7	310	EZ-TRAC	New Age	7/4/2017	58917	☑	
26	-61.3	289.6	21.7	311.3	EZ-TRAC	New Age	7/4/2017	58389	☑	
50	-63.1	287.5	21.7	309.2	EZ-TRAC	New Age	7/5/2017	58217	☑	
75	-64	286.4	21.7	308.1	EZ-TRAC	New Age	7/5/2017	58024	☑	
100	-65	284.9	21.7	306.6	EZ-TRAC	New Age	7/5/2017	58111	☑	
125	-66.1	283.5	21.7	305.2	EZ-TRAC	New Age	7/5/2017	58510	☑	
150	-68.1	277.9	21.7	299.6	EZ-TRAC	New Age	7/5/2017	58538	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.22**	**OVBN** **Overburden**									
4.22	**7.80**	**PEL** **Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts**									

4.22 - 7.8: Medium green, laminated, fine-grained calcite-chlorite schist with subhedral calcite porphyroblasts. Well foliated.

<<Min: 4.22 - 96 1% Min: Pyrrhotite>>

<<Alt: 4.22 - 7.8 Moderate-Strong Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

7.80 11.09 RHYvl Lapilli tuff

7.8 - 11.09: White felsic stretched clasts/lapilli in a grey fine grained groundmass. Well foliated.

<<Alt: 7.8 - 11.09 Weak Calcite>>

<<Vein: 11.08 - 11.1 100% Calcite 65 deg. >> Narrow calcite vein

11.09 12.60 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

11.09 - 12.6: Dark brown-black, biotite-calcite-chlorite schist, with disseminated to banded calcite and disseminated fine to medium grained biotite. Well foliated.

<<Alt: 11.09 - 12.6 Moderate-Strong Calcite>>

<<Struc: 12.5 - 12.5 Moderate dominant foliation>>

12.60 13.90 RHYvl Lapilli tuff

12.6 - 13.9: Upper contact is a white silica banded rhyolite with fine grained grey cleavage, which grades into white felsic stretched clasts/lapilli in a fine grained grey muscovite matrix. Lower contact is marked by a ~15 cm massive quartz vein. Well foliated.

<<Alt: 12.6 - 13.9 Weak Calcite>>

<<Vein: 12.94 - 13.9 10% Quartz-Carbonate 55 deg. >> Zone with massive quartz veins with patchy carbonate

13.90 15.90 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

13.9 - 15.9: Dark grey-black, biotite-calcite schist. Biotite occurs as fine grained matrix and disseminated fine to medium grains. Calcite occurs as bands and disseminated subhedral medium grained crystals. Well foliated.

<<Alt: 13.9 - 15.9 Moderate-Strong Calcite>>

15.90 29.00 RHYvl Lapilli tuff

15.9 - 29: White felsic pebble-sized stretched clasts/lapilli within a fine grained yellowish-grey muscovite matrix. Minor stretched blebs of PO. Well foliated.

<<Alt: 15.9 - 45.1 Weak-Moderate Calcite>>

<<Vein: 22.25 - 22.45 40% Quartz-Carbonate 45 deg. >> Zone with irregular quartz-carbonate veining

<<Vein: 24.56 - 24.58 20% Quartz-Carbonate 30 deg. >> Narrow (~1 cm wide) quartz-carbonate vein

<<Struc: 16.42 - 16.42 Moderate dominant foliation>>

<<Struc: 19.23 - 19.3 Weak-Moderate Fault>> Narrow fault breccia with gouge matrix

<<Struc: 23.12 - 23.12 Moderate dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 28.66 - 28.66 Moderate dominant foliation>>

<<Struc: 28.93 - 28.93 Moderate dominant foliation>>

29.00 45.10 RHYvx Quartz and/or feldspar crystal tuff

29 - 45.1: Fine-medium grained, blue, quartz phenocrysts and white felsic lapilli in a fine grained grey muscovite groundmass. Well foliated.

<<Vein: 38.27 - 39.75 50% Quartz-Carbonate 45 deg. >> Zone of irregular massive quartz-carbonate veins with minor sulfide (PO) blebs

<<Vein: 42.05 - 43.92 50% Quartz-Carbonate 40 deg. >> Zone of abundant massive quartz +/- carbonate veins

<<Struc: 29 - 29 Orientation Lock Angle>> Lock angle between orientation marks at 29 m and 32 m.

<<Struc: 29.94 - 29.94 Moderate dominant foliation>>

<<Struc: 31.6 - 31.6 Moderate dominant foliation>>

<<Struc: 34.12 - 34.5 Weak Fault>> Broken zone with minor clay-sericite gouge

<<Struc: 40.74 - 40.74 Moderate dominant foliation>>

<<Struc: 43.63 - 43.63 Weak-Moderate Vein>>

45.10 49.30 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

45.1 - 49.3: Dark grey to olive green matrix with bands of silica-calcite and disseminated fine grained black biotite. Well foliated.

<<Alt: 45.1 - 49.3 Moderate-Strong Calcite>>

<<Vein: 45.1 - 52.95 20% Quartz-Carbonate 55 deg. >> Zone with abundant narrow (~1 cm wide) calcite +/- quartz veins/bands

<<Struc: 45.71 - 45.71 Moderate dominant foliation>>

<<Struc: 47.41 - 47.41 Moderate dominant foliation>>

49.30 50.60 RHYvx Quartz and/or feldspar crystal tuff

49.3 - 50.6: Fine-medium grained, blue quartz phenocrysts and minor white felsic lapilli in a fine grained grey groundmass. Well foliated.

<<Alt: 49.3 - 50.6 Weak-Moderate Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

50.60 52.95 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

50.6 - 52.95: Dark grey to olive green, fine grained biotite + chlorite (?) with banded to blebby calcite. Faulted lower contact. Well foliated.

<<Alt: 50.6 - 52.95 Moderate-Strong Calcite>>

<<Struc: 52.88 - 52.95 Moderate Fault>> Fault-gouge supported breccia. Contact between PEL and RHYvx.

52.95 58.44 RHYvx Quartz and/or feldspar crystal tuff

52.95 - 58.44: Fine-medium grained, blue quartz phenocrysts in a fine grained yellowish-grey muscovite groundmass. Well foliated.

<<Alt: 52.95 - 107.75 Weak Calcite>>

58.44 66.49 RHYvl Lapilli tuff

58.44 - 66.49: Beige felsic lapilli within light beige-grey, fine grained groundmass. Disseminated to patchy pyrrhotite throughout.

<<Struc: 58.95 - 58.95 Moderate dominant foliation>>

<<Struc: 59 - 59 Orientation Lock Angle>> Lock angle between orientation marks at 59 m and 62 m.

<<Struc: 59.15 - 59.15 Moderate dominant foliation>>

<<Struc: 62 - 62 Orientation Lock Angle>> Lock angle between orientation marks at 62 m and 65 m.

<<Struc: 62.54 - 62.54 Moderate dominant foliation>>

<<Struc: 64.85 - 64.85 Moderate dominant foliation>>

66.49 67.59 RHYva Coarse grained to ash tuff

66.49 - 67.59: Greyish-green, fine grained siltstone/ash tuff. Disseminated subhedral carbonate crystals.

67.59 68.00 FLZ Fault Zone

67.59 - 68: Pebble to cobble sized clasts of rhyolite in a clay-sericite gouge zone

<<Struc: 67.59 - 68 Moderate-Strong Fault>> Clay-gouge supported, rhyolite pebbles to cobble sized clasts.

68.00 77.00 MDSt Rhyolite tuff dominant mudstone

68 - 77: Light to medium grey, ash to lapilli tuff with carbonaceous cleavages and groundmass.

<<Struc: 70.77 - 70.77 Weak dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 71 - 71 Orientation Lock Angle>> Lock angle between orientation marks at 71 m and 74 m.

<<Struc: 72.22 - 72.22 Weak dominant foliation>>

77.00 83.12 RHYvl Lapilli tuff

77 - 83.12: Light white to grey, matrix-supported, felsic and siliceous lapilli in a fine grained muscovite rich groundmass

<<Struc: 78.6 - 78.6 Weak-Moderate dominant foliation>>

<<Struc: 80 - 80 Orientation Lock Angle>> Lock angle between orientation marks at 80 m and 83 m.

<<Struc: 82.86 - 82.86 Moderate dominant foliation>>

83.12 83.68 SLT Siltstone - fine-grained sedimentary rock (siliceous)

83.12 - 83.68: Green to grey, fine grained siltstone/ash tuff?

83.68 107.75 RHYvl Lapilli tuff

83.68 - 107.75: White and light grey stretched felsic clasts in a fine grained grey groundmass. Local patchy PO appears to replace some clasts, possibly pumice clasts (?).

<<Min: 96 - 107.75 2% Min: Pyrrhotite>>

<<Vein: 85.5 - 90 30% Quartz 4 deg. >> Low angle TCA fracture (running sub parallel to core axis) infilled by Quartz-tourmaline-carbonate +/- sulfide (PO + PY + TT + GL + CP). At ~89 the vein narrows into a TML-Carb fracture filled veinlet.

<<Vein: 98.67 - 98.7 50% Quartz 35 deg. >> White irregular quartz vein

<<Struc: 88.65 - 88.65 Weak dominant foliation>>

<<Struc: 89 - 89 Orientation Lock Angle>> Lock angle between orientation marks at 89 m and 92 m.

<<Struc: 91.31 - 91.31 Moderate dominant foliation>>

<<Struc: 94.94 - 94.94 Moderate dominant foliation>>

<<Struc: 99.66 - 99.66 Moderate dominant foliation>>

<<Struc: 101 - 101 Orientation Lock Angle>> Lock angle between orientation marks at 101 m and 104 m.

<<Struc: 101.56 - 101.56 Moderate dominant foliation>>

<<Struc: 105.93 - 105.93 Moderate dominant foliation>>

107.75 109.27 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

107.75 - 109.27: Dark grey to black, fine grained, foliated, biotite-rich meta-pelite.

<<Min: 107.75 - 141 1% Min: Pyrrhotite>>

<<Alt: 107.75 - 109.27 Moderate Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 109.1 - 110.7 10% Quartz-Carbonate 55 deg. >> Zone with irregular quartz-carbonate veining

<<Struc: 109 - 109 Weak-Moderate dominant foliation>>

109.27 110.98 RHYvl Lapilli tuff

109.27 - 110.98: Clast-supported, white, stretched, felsic lapilli in a light grey-green, fine grained, groundmass.

<<Alt: 109.27 - 152 Weak Calcite>>

<<Struc: 110 - 110 Orientation Lock Angle>> Lock angle between orientation marks at 110 m and 113 m.

110.98 112.02 MDSt Rhyolite tuff dominant mudstone

110.98 - 112.02: Matrix-supported, felsic lapilli in fine-grained carbonaceous-rich groundmass.

112.02 113.61 MDSc Carbonaceous dominant mudstone

112.02 - 113.61: Black, fine grained, mixed felsic and carbonaceous material with minor stretched felsic lapilli.

<<Struc: 112.65 - 112.65 Moderate dominant foliation>>

<<Struc: 113 - 113 Orientation Lock Angle>> Lock angle between orientation marks at 113 m and 116 m.

113.61 119.11 RHYva Coarse grained to ash tuff

113.61 - 119.11: Medium grey, ash tuff with ~10% lapilli in the bottom ~1 m.

<<Struc: 114.18 - 114.18 Weak-Moderate dominant foliation>>

<<Struc: 116 - 116 Orientation Lock Angle>> Lock angle between orientation marks at 116 m and 119 m.

<<Struc: 117.92 - 117.92 Weak-Moderate dominant foliation>>

119.11 119.98 RHY undifferentiated rhyolite

119.11 - 119.98: Beige, soft, clay-altered (?) rhyolite.

<<Struc: 119.8 - 119.95 Weak Fault>> Broken zone with minor gouge (?)

119.98 123.60 RHYva Coarse grained to ash tuff

119.98 - 123.6: Medium grey, fine grained ash tuff with minor felsic lapilli.

<<Min: 122 - 123.5 0.5% Min: Sphalerite>>

<<Min: 123.5 - 141 0.5% Min: Pyrite>>

<<Vein: 122.6 - 133 5% Quartz-Carbonate 70 deg. >> Zone with spaced, ~1 cm wide ,irregular, deformed to ptygmatic quartz-carbonate veins

<<Struc: 121.38 - 121.38 Weak dominant foliation>>

<<Struc: 122 - 122 Orientation Lock Angle>> Lock angle between orientation marks at 122 m and 125 m.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

123.60 141.00 RHYvl Lapilli tuff

123.6 - 141: Light to medium grey, felsic lapilli rich tuff.

<<Struc: 124.24 - 124.24 Weak-Moderate dominant foliation>>

<<Struc: 125 - 125 Orientation Lock Angle>> Lock angle between orientation marks at 125 m and 128 m.

<<Struc: 127.05 - 127.05 Weak dominant foliation>>

<<Struc: 128 - 128 Orientation Lock Angle>> Lock angle between orientation marks at 128 m and 131 m.

<<Struc: 129.78 - 129.78 Weak dominant foliation>>

<<Struc: 131 - 131 Orientation Lock Angle>> Lock angle between orientation marks at 131 m and 134 m.

<<Struc: 132.56 - 132.56 Moderate dominant foliation>>

<<Struc: 136.35 - 136.4 Moderate Fault>> Narrow zone of clay-sericite fault gouge

<<Struc: 137 - 137 Orientation Lock Angle>> Lock angle between orientation marks at 137 m and 140 m.

<<Struc: 137.72 - 137.72 Moderate dominant foliation>>

<<Struc: 140 - 140 Orientation Lock Angle>> Lock angle between orientation marks at 140 m and 143 m.

141.00 145.54 RHY undifferentiated rhyolite

141 - 145.54: Weakly Mu-altered rhyolite with dark bands that contain disseminated PO.

<<Min: 141 - 152 1% Min: Pyrite>>

<<Min: 141 - 152 2% Min: Pyrrhotite>>

<<Alt: 141 - 149 Weak Muscovite>>

<<Vein: 142.8 - 144.1 5% Quartz-Carbonate 80 deg. >> Three, ~3-10 cm wide quartz-carbonate +/- sulfide veins. Local vuggy texture. Cross-cut by local narrow TML-CA veinlet.

<<Struc: 142.37 - 142.37 Strong dominant foliation>>

145.54 149.00 MDSt Rhyolite tuff dominant mudstone

145.54 - 149: Medium grey, tuff with cleavages of carbonaceous material.

<<Struc: 146 - 146 Orientation Lock Angle>> Lock angle between orientation marks at 146 m and 149 m.

<<Struc: 148.13 - 148.13 Moderate dominant foliation>>

149.00 152.00 RHY undifferentiated rhyolite

149 - 152: Moderately MU-altered rhyolite with bands of siliceous material and yellowish-green MU-cleavages.

<<Alt: 149 - 152 Moderate Muscovite>>

<<Struc: 149 - 149 Orientation Lock Angle>> Lock angle between orientation marks at 149 m and 152 m.

<<Struc: 150.08 - 150.08 Moderate dominant foliation>>

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-427

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
End of Hole @ 152											

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-428

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/6/2017
UTM Easting	414899.6192	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/7/2017
UTM Northing:	6817018.048	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1394.9	Casing Depth (m):	10.7	Length (m):	40.62	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/4/2017
Local Northing:		Cemented?:	SP	Core Storage Loc.:	KZK Camp	Drill Completed:	7/5/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
Comments:						Parent Hole:	

K17-428 drilled for geotechnical and hydrogeological characteristics for the proposed run of mine (ROM) pad.
The hole consists of intercalated mudstone and mafic volcaniclastics of the Wind Lake Formation that are overprinted with calcite alteration throughout the hole.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/4/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 10.70 OVBN Overburden

10.70 13.89 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

10.7 - 13.89: Dark grey laminated mudstone with abundant calcite bands and quartz-calcite veins (< 1 cm). Minor deformation is present throughout most of the interval in which laminations, bands and veins are weakly folded. Lower contact with mafic ash-tuff is gradational. Intercalation of mafic volcaniclastic unit from 12.25 to 12.37 m depth.

<<Min: 10.7 - 40.62 1% Min: Pyrrhotite>> Pyrrhotite disseminated uniformly over mudstone and mafic units. Also includes Pyrite + Pyrrhotite vein-hosted blebs which can comprise of up to 10% of a vein.

<<Alt: 10.7 - 40.62 Weak-Moderate Calcite>> Banded calcite concordant with laminations of the mudstone units and folations (if present) of the mafic units. Quartz-Calcite veins also present at various thicknesses (mm scale up to 15 cm).

<<Vein: 10.7 - 26.92 5% Quartz-Carbonate 70 deg. >> Vary in size from 1 mm to 15 cm and vary in calcite to quartz ratio (both extremes exist). Hosts sulphides in some occurrences. Some discordant veins exist.

<<Struc: 12.99 - 13 Moderate Foliation>> Calcite band in mudstone lamination.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

13.89 17.69 MAFta Mafic coarse grained to ash tuff

13.89 - 17.69: Medium-grey fine-grained mafic ash tuff with speckled biotite crystals (< 1 mm) comprising of 2% of the mode. Unfoliated and minor chlorite in matrix. Quartz-Calcite occurs in irregular veins orientated similarly to the bands in the mudstone unit.

<<Struc: 16.77 - 16.78 Moderate Foliation>>

17.69 21.12 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

17.69 - 21.12: Laminated mudstone with minor calcite bands & irregular quartz-calcite veins. Veins are 0.5 to 15 cm, concordant with the laminations and often deformed.

<<Struc: 19.45 - 19.54 Weak Fault>> Fault with broken fragments & minor gouge.

<<Struc: 19.57 - 19.58 Moderate Foliation>> Mudstone lamination

<<Struc: 19.98 - 21.06 Weak Fault>> Minor fault with gouge.

21.12 21.94 MAFta Mafic coarse grained to ash tuff

21.12 - 21.94: Interval of mafic ash tuff. Medium-grey with speckled Biotite (1 mm, 2% of mode), chlorite in matrix and irregular quartz-calcite veins.

21.94 23.15 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

21.94 - 23.15: Laminated mudstone with calcite bands and irregular quartz-calcite veins concordant with laminations. Abundant veining & strong deformation is present in the lowermost 20 cm.

<<Struc: 22.67 - 22.69 Moderate Foliation>>

23.15 27.61 MAFta Mafic coarse grained to ash tuff

23.15 - 27.61: Interval of mafic ash tuff. Medium-grey with speckled Biotite (1 mm, 2% of mode), chlorite in matrix and irregular quartz-calcite veins up to 10 cm. Lower contact contains a quartz-calcite-chlorite vein that is heavily fractured.

<<Alt: 27.48 - 27.9 Weak Chlorite>> Chlorite in Quartz-Calcite-Chlorite veins.

<<Vein: 26.92 - 28.51 20% Quarzt-Chlorite-Carbonate 60 deg. >> Massive Quartz-Chlorite-Carbonate (calcite) also containing sulphide blebs. Set of 5 massive veins over interval variably spaced apart (no greater than 38 cm).

<<Struc: 26.34 - 27.82 Weak-Moderate Fault>> Fault zone with areas of sections of broken fragments (some with gouge) separated by short intervals (no greater than 30 cm) of competent core.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

27.61 36.48 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

27.61 - 36.48: Laminated mudstone with quartz-calcite bands and irregular quartz-calcite veins concordant with laminations. Quartz-Chlorite-Pyrite-Calcite vein present at top of interval. The bands are predominantly silica, in contrast to the bands (in mudstone units) in the upper sections of the hole which were dominated by (or entirely) calcite.

<<Vein: 28.51 - 40.62 5% Quartz-Carbonate 65 deg. >> Vary in size from 1 mm to 5 cm and vary in calcite to quartz ratio (both extremes exist). Hosts sulphides in some occurrences. Some discordant veins exist.

<<Struc: 28.29 - 28.3 Weak Foliation>> Deformed lamination

<<Struc: 30.18 - 30.19 Weak-Moderate Foliation>> Calcite band concordant to mudstone lamination.

<<Struc: 30.7 - 30.83 Weak-Moderate Fault>> Minor fault with gouge.

<<Struc: 33.86 - 33.87 Moderate Foliation>>

<<Struc: 34.38 - 40.55 Moderate Fault>> Fault zone with multiple gouge-filled fractures and broken fragments. Intensity and gouge abundance varies for each individual fault.

<<Struc: 36 - 36.01 Weak-Moderate Foliation>> Mudstone lamination.

36.48 37.04 MAFt **Undifferentiated mafic volcaniclastic**

36.48 - 37.04: Pale green mafic volcaniclastic with 1 mm speckled biotite crystals (4% of mode) and chlorite in groundmass. Lower half of interval is muscovite-dominated interval. Faulting at upper and lower contacts with mudstone units.

<<Alt: 36.72 - 36.94 Moderate-Strong Muscovite>> Original fabrics & mineralogy of mafic volcaniclastic unit hard to distinguishable from strong overprint of muscovite + sericite.

37.04 39.44 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

37.04 - 39.44: Dark grey mudstone with deformed laminations and very low abundance of calcite in contrast to other mudstone units. Entirety of unit is heavily fractured.

39.44 40.62 MAFt **Undifferentiated mafic volcaniclastic**

39.44 - 40.62: Pale green mafic volcaniclastic with 1 mm speckled biotite crystals 10-20% of mode) and chlorite in groundmass. Abundance quartz-calcite veins throughout from 1 mm to 4 cm.

<<Struc: 40.11 - 40.12 Moderate Vein>> Quartz-Calcite vein concordant with foliation.

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-428

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
End of Hole @ 40.62											

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-429

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/9/2017
UTM Easting	414961.5254	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/9/2017
UTM Northing:	6816579.223	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1405.926	Casing Depth (m):	6.08	Length (m):	36.08	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/5/2017
Local Northing:		Cemented?:	SP	Core Storage Loc.:	KZK Camp	Drill Completed:	7/6/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
Comments:						Parent Hole:	

K17-429 was drilled to determine the geotechnical and hydrogeological characteristics for the proposed LGO Stockpile.
The hole encountered a thick package of (primarily) mafic volcaniclastics in the upper 30 m and mudstones for the bottom 6 m. Intense faulting is present at certain intervals between 16 m and 27 m depth.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/5/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 6.08 OVBN Overburden

6.08 7.04 MAFt Undifferentiated mafic volcaniclastic

6.08 - 7.04: Olive-green mafic volcaniclastic. Speckled Biotite crystals 0.5 to 2 mm 5% of the mode. Abundant chlorite in groundmass and 5 mm calcite veins are present.

<<Alt: 6.08 - 36.08 Weak-Moderate Calcite>> Banded/veins of calcite throughout the hole. Intensity is variable throughout the hole but is present in all units.

<<Vein: 6.08 - 31.21 5% Quartz-Carbonate 60 deg. >> Veins are quartz + calcite concordant with laminations and foliations. Range in size from 1 mm to 2 cm. Can be locally deformed as well as discordant to laminations and foliations. Can occur as an even mode of calcite to quartz, can be predominately calcite, or predominately quartz.

7.04 8.93 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

7.04 - 8.93: Laminated mudstone with intercalated mafic volcaniclastics. Varies in carbonaceous content from very low to moderate. Intervals of Calcite bands & veins are present concordant to laminations.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Alt: 7.04 - 8.12 Moderate Muscovite>>

<<Struc: 8.56 - 8.86 Weak-Moderate Fault>>

8.93 23.64 MAFt Undifferentiated mafic volcaniclastic

8.93 - 23.64: Olive green mafic volcaniclastic package with very weak to moderate foliation and chlorite in the groundmass. Calcite veins + bands concordant to the foliation are present throughout the unit. Speckled biotite 1 to 2 mm comprises 2 to 15% of the mode in certain sections. Intensely faulted zone from 16.2 to 22.6 m depth.

<<Min: 15.1 - 34.87 0.1% Min: Pyrite>> Isolated veinlets 1-2 mm.

<<Struc: 9.08 - 10.14 Weak Fault>> Fracture zone into fragments, no gouge.

<<Struc: 12.69 - 12.7 Moderate Foliation>>

<<Struc: 14.63 - 14.98 Weak-Moderate Fault>>

<<Struc: 16.14 - 20.57 Moderate-Strong Fault>> Fault zone of intervals of intense faulting. Completely gouged at some faults with broken fragments surrounding. Largest distance between fracture zones (competent rock) is 50 cm.

<<Struc: 22.18 - 22.65 Strong Fault>>

<<Struc: 22.83 - 22.84 Weak-Moderate Foliation>>

<<Struc: 23.52 - 24.93 Moderate-Strong Fault>> Fault zone of intervals of intense faulting. Completely gouged at some faults with broken fragments surrounding No intervals of competent rock within fault zone.

23.64 24.08 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

23.64 - 24.08: Interval of strongly faulted mudstone with calcite bands.

24.08 29.21 MAFt Undifferentiated mafic volcaniclastic

24.08 - 29.21: Olive green mafic volcaniclastic, non-foliated to weakly foliated. Abundant calcite in groundmass & irregular veins, and 1 mm Ankerite present for 3% of the mode. 1 mm Biotite crystals are less abundant than previous MAFt interval and comprise 3% of the mode.

<<Struc: 25.45 - 25.9 Moderate Fault>> Heavily gouged

<<Struc: 26.04 - 26.18 Strong Fault>>

<<Struc: 26.51 - 26.84 Moderate Fault>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

29.21 36.08 MDS

Undifferentiated carbonaceous mudstone & tuffaceous mudstone

29.21 - 36.08: Laminated mudstone with variable carbonaceous content. Greater abundance of silica as irregular bands as well as two 8 cm quartz-calcite veins (95% quartz). High amount of fracturing (broken clasts with no gouge) and healed fractures with calcite throughout the unit.

<<Vein: 31.21 - 31.27 100% Quartz-Carbonate 70 deg. >> 95% Quartz

<<Vein: 31.27 - 32.57 7% Quartz-Carbonate>> Zone of fracture-filling calcite veins (up to 5 mm) discordant to foliation. Stockwork appearance.

<<Vein: 32.57 - 32.64 100% Quartz-Carbonate 70 deg. >> 95% Quartz

<<Vein: 32.64 - 36.08 3% Quartz-Carbonate 60 deg. >>

<<Struc: 31.05 - 31.06 Moderate Foliation>> Mudstone Lamination

<<Struc: 32.77 - 34.83 Weak Fault>> Zone of fragmented rock. No gouge.

End of Hole @ 36.08

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-430

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Mark Baknes
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/18/2017
UTM Easting	415127.6292	Core Size:	HQ3	Azimuth:	25	Date Logging Complete:	7/22/2017
UTM Northing:	6815549.521	Casing Pulled?:	Yes	Dip:	-60	Drill Company:	New Age
UTM Elev. (m):	1397.332	Casing Depth (m):	7.5	Length (m):	182	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/7/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/9/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-430 was drilled to study the geotechnical properties of the proposed open pit high-wall. Optical and acoustic televiewer surveys were completed in the borehole, as well as packer testing above and below the largest fault zone.
Overburden extended to 7.7 m. Throughout the entire hole a package of intercalated felsic volcanic, meta-pelites, and mafic intrusives occurs. Weak to moderate muscovite alteration occurs from 164 m to 182 m (EOH), with a zone of moderate chlorite +/- cordierite and disseminated sulfide (OJ) from 172.2 to 175.5m.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-60	25	0	25	PLND-LiDAR	Trent Newkirk	7/7/2017		☑	
14	-60.9	14	21.7	35.7	EZ-TRAC	New Age	7/7/2017	58949	☐	
25	-72.5	0.3	21.7	22	EZ-TRAC	New Age	7/7/2017	58362	☐	
50	-72.3	0.8	21.7	22.5	EZ-TRAC	New Age	7/7/2017	58548	☐	Driller's comments: "No good."
50.01	-58.3	0.2	21.7	21.9	EZ-TRAC	New Age	7/7/2017	58273	☑	
75	-59.4	359.4	21.7	21.1	EZ-TRAC	New Age	7/8/2017	58227	☑	
100	-60.5	0.3	21.7	22	EZ-TRAC	New Age	7/8/2017	58012	☑	
125	-61.6	359.9	21.7	21.6	EZ-TRAC	New Age	7/8/2017	58171	☑	
150	-65.7	358.6	21.7	20.3	EZ-TRAC	New Age	7/9/2017	57997	☑	
175	-67.7	357.1	21.7	18.8	EZ-TRAC	New Age	7/9/2017	57889	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**7.70**	**OVBN Overburden**									
7.70	**16.60**	**RHYvl Lapilli tuff**									
<<Min: 7.8 - 80.2 2% Min: Pyrite>>											
<<Alt: 7.7 - 16.6 Weak Calcite>>											
<<Struc: 13.05 - 13.06 Weak-Moderate Joint (fracture)>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 13.52 - 13.521 Moderate dominant foliation>>

<<Struc: 15.45 - 15.75 Moderate Fault>>

16.60 23.30 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

16.6 - 23.3: calcareous

<<Alt: 16.6 - 23.3 Moderate-Strong Calcite>>

<<Struc: 16.75 - 17 Weak-Moderate Fault>>

<<Struc: 17 - 17 Orientation Lock Angle>> Lock angle between orientation marks at 17 m and 20 m

<<Struc: 17.65 - 17.66 Moderate dominant foliation>>

<<Struc: 18.95 - 18.96 Moderate dominant foliation>>

<<Struc: 20 - 20 Orientation Lock Angle>> Orientation line successfully drawn up from 20 to 17

<<Struc: 20 - 20.01 Weak-Moderate Joint (fracture)>>

<<Struc: 20 - 23 Orientation Lock Angle>> Lock angle between orientation marks at 20 m and 23 m

<<Struc: 21 - 21.02 Moderate Fault>>

<<Struc: 21.9 - 21.91 Moderate dominant foliation>>

<<Struc: 23 - 23 Orientation Lock Angle>> Orientation line extended confidently up to 22.55m above which foliation was used to extend the line to 21.43m. Line could not be extended beyond 21.43m due to broken rock

<<Struc: 23 - 26 Orientation Lock Angle>> Lock angle between orientation marks at 20 m and 23 m.

23.30 27.80 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

23.3 - 27.8: felsic calcareous bands poss. clastic unit

<<Alt: 23.3 - 34 Weak Calcite>>

<<Struc: 23.32 - 23.33 Moderate dominant foliation>>

<<Struc: 24.1 - 24.11 Moderate dominant foliation>>

<<Struc: 24.35 - 24.36 Moderate Joint (fracture)>>

<<Struc: 26 - 26 Orientation Lock Angle>> Orientation mark could not be extended above 25.91m due to broken rock. 23m-23.18m orientation mark extrapolated from run above

<<Struc: 26.4 - 26.41 Weak-Moderate Joint (fracture)>>

<<Struc: 26.8 - 26.81 Moderate dominant foliation>>

<<Struc: 27.7 - 27.71 Moderate dominant foliation>>

27.80 34.00 RHYvl Lapilli tuff

<<Struc: 29.35 - 29.36 Moderate dominant foliation>>

<<Struc: 30.15 - 30.16 Trace Joint (fracture)>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 33.5 - 33.51 Moderate dominant foliation>>

<<Struc: 33.8 - 33.81 Moderate Joint (fracture)>>

34.00 34.90 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

34 - 34.9: BI-CL-CA rich rock possible mixed mafic\sed clastic

<<Alt: 34 - 38.1 Moderate Calcite>>

<<Struc: 34.05 - 34.06 Moderate Joint (fracture)>>

34.90 35.80 RHYvl Lapilli tuff

<<Struc: 35.65 - 35.66 Moderate dominant foliation>>

35.80 38.10 MAFt Undifferentiated mafic volcaniclastic

35.8 - 38.1: heterogeneous, locally BI rich, CA

<<Struc: 35.85 - 35.86 Moderate Joint (fracture)>>

<<Struc: 36.25 - 36.26 Moderate Joint (fracture)>>

<<Struc: 37.7 - 37.71 Weak-Moderate dominant foliation>>

38.10 40.30 RHYv Undifferentiated Rhyolite volcaniclastic

38.1 - 40.3: local vl, also massive

<<Alt: 38.1 - 42 Weak Calcite>>

<<Struc: 38.6 - 38.61 Weak-Moderate Joint (fracture)>>

<<Struc: 40.15 - 40.16 Weak Joint (fracture)>>

40.30 45.00 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

40.3 - 45: fg BI-CA rich

<<Alt: 42 - 45 Moderate-Strong Calcite>>

<<Struc: 42.04 - 42.05 Weak Joint (fracture)>>

<<Struc: 42.1 - 42.11 Weak Joint (fracture)>>

<<Struc: 43.15 - 43.16 Moderate dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 44 - 44 Orientation Lock Angle>> Orientation line extended above 44m to 43.98m. Could not be extended further due to broken rock. Orientation mark extended below 44m to 45.04 based on orientation above.

<<Struc: 44.28 - 44.29 Moderate dominant foliation>>

45.00 48.60 RHYv Undifferentiated Rhyolite volcaniclastic

<<Alt: 45 - 82 Weak Calcite>>

<<Vein: 45 - 49 10% Quartz-Carbonate 35 deg. >> Zone of moderate density of qz-carb +/- tourmaline veining. Ranging from ~1 cm to 15 cm wide.

<<Struc: 45 - 45.01 Weak Joint (fracture)>>

<<Struc: 45.5 - 45.51 Moderate dominant foliation>>

<<Struc: 45.55 - 45.56 Weak Joint (fracture)>>

<<Struc: 47 - 47 Orientation Lock Angle>> Orientation line extended above 47m to 46.93m. Could not be extended above due to broken rock.

<<Struc: 47.4 - 47.41 Moderate dominant foliation>>

<<Struc: 47.8 - 47.81 Weak Joint (fracture)>>

48.60 49.40 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

48.6 - 49.4: fg, BI rich

<<Struc: 49.35 - 49.36 Moderate dominant foliation>>

49.40 68.20 RHYv Undifferentiated Rhyolite volcaniclastic

<<Struc: 49.5 - 49.51 Weak Joint (fracture)>>

<<Struc: 49.9 - 49.91 Weak Joint (fracture)>>

<<Struc: 50 - 50 Orientation Lock Angle>> Orientation line extended above 50m to 47m confidently.

<<Struc: 50.25 - 50.26 Weak Joint (fracture)>>

<<Struc: 50.5 - 50.9 Moderate-Strong Fault>>

<<Struc: 52.4 - 52.41 Weak Joint (fracture)>>

<<Struc: 52.7 - 52.72 Moderate Fault>>

<<Struc: 52.8 - 52.81 Moderate Fault>>

<<Struc: 53.5 - 53.51 Moderate dominant foliation>>

<<Struc: 53.7 - 53.71 Weak Joint (fracture)>>

<<Struc: 54 - 54.6 Weak-Moderate Fault>>

<<Struc: 54.6 - 54.61 Moderate-Strong dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 54.61 - 56.8 Moderate-Strong Fault>>

<<Struc: 56.95 - 56.96 Moderate dominant foliation>>

<<Struc: 59.5 - 59.75 Moderate Fault>>

<<Struc: 60 - 60 Weak Joint (fracture)>>

<<Struc: 60.4 - 60.41 Weak Joint (fracture)>>

<<Struc: 60.9 - 60.91 Moderate dominant foliation>>

<<Struc: 61.74 - 61.75 Weak Joint (fracture)>>

<<Struc: 62 - 62 Orientation Lock Angle>> Locking angle extended above 62m to 60.4. Could not be extended above 60.4m due to spun blocks.

<<Struc: 62.1 - 62.11 Moderate dominant foliation>>

<<Struc: 62.5 - 62.51 Moderate dominant foliation>>

<<Struc: 62.9 - 62.91 Weak Joint (fracture)>>

<<Struc: 63.8 - 63.81 Weak Joint (fracture)>>

<<Struc: 64.2 - 64.21 Moderate dominant foliation>>

<<Struc: 65.3 - 65.31 Moderate dominant foliation>>

<<Struc: 66.3 - 66.31 Weak Joint (fracture)>>

<<Struc: 67.2 - 67.21 Moderate dominant foliation>>

<<Struc: 67.8 - 67.81 Weak Joint (fracture)>>

68.20 76.60 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

<<Struc: 68.4 - 68.41 Moderate dominant foliation>>

<<Struc: 69 - 69.1 Weak Joint (fracture)>>

<<Struc: 71.24 - 71.24 Strong dominant foliation>>

<<Struc: 72 - 72.01 Weak dominant foliation>>

<<Struc: 72.4 - 72.41 Weak Joint (fracture)>>

<<Struc: 72.7 - 72.71 Moderate dominant foliation>>

<<Struc: 74.1 - 74.11 Moderate dominant foliation>>

<<Struc: 74.3 - 74.31 Weak Joint (fracture)>>

<<Struc: 75.3 - 75.31 Moderate-Strong Fault>>

<<Struc: 75.6 - 75.61 Weak Joint (fracture)>>

<<Struc: 76.4 - 76.41 Moderate dominant foliation>>

76.60 82.00 RHYv Undifferentiated Rhyolite volcaniclastic

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 80.2 - 80.6 20% Min: Pyrite>>

<<Min: 80.6 - 111 5% Min: Pyrite>> crse dissem py replacing lapilli??

<<Struc: 76.6 - 77 Moderate Fault>>

<<Struc: 77.3 - 77.31 Moderate dominant foliation>>

<<Struc: 78.7 - 78.71 Weak dominant foliation>>

<<Struc: 79.1 - 79.11 Weak Joint (fracture)>>

<<Struc: 79.6 - 79.61 Moderate dominant foliation>>

<<Struc: 80 - 80 Orientation Lock Angle>> Orientation mark extended above 80m to 73.86m. Could not be extended further due to broken rock.

<<Struc: 80.2 - 80.21 Weak Joint (fracture)>>

<<Struc: 80.6 - 80.61 Moderate dominant foliation>>

<<Struc: 81.1 - 81.11 Moderate dominant foliation>>

<<Struc: 81.4 - 81.41 Weak Joint (fracture)>>

82.00 84.50 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

82 - 84.5: fg BI+CA

<<Alt: 82 - 84 Moderate-Strong Calcite>>

<<Alt: 84 - 182 Weak Calcite>>

<<Vein: 84 - 84.2 75% Quartz-Carbonate 30 deg. >> Irregular qz+carb+tml vein

<<Struc: 82.3 - 82.31 Weak Joint (fracture)>>

<<Struc: 82.7 - 82.71 Moderate dominant foliation>>

<<Struc: 83 - 83 Orientation Lock Angle>> Orientation line extended confidently above 83m to 80m. Orientation mark extended below 83m to 86m.

<<Struc: 83.4 - 83.41 Moderate dominant foliation>>

<<Struc: 84 - 84.01 Weak Joint (fracture)>>

84.50 93.70 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

<<Struc: 84.5 - 84.51 Moderate dominant foliation>>

<<Struc: 85.3 - 85.31 Weak Joint (fracture)>>

<<Struc: 85.6 - 85.61 Weak Joint (fracture)>>

<<Struc: 85.8 - 85.81 Moderate dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 86 - 86 Orientation Lock Angle>> Orientation line extended from 83m down to 86m.

<<Struc: 86.1 - 86.11 Moderate dominant foliation>>

<<Struc: 86.9 - 86.91 Weak Joint (fracture)>>

<<Struc: 87.3 - 87.31 Moderate dominant foliation>>

<<Struc: 87.7 - 87.71 Weak Joint (fracture)>>

<<Struc: 88.6 - 88.61 Moderate dominant foliation>>

<<Struc: 89.4 - 89.6 Moderate Fault>>

<<Struc: 90.1 - 90.11 Weak Joint (fracture)>>

<<Struc: 90.2 - 90.21 Moderate dominant foliation>>

<<Struc: 90.9 - 90.91 Moderate dominant foliation>>

<<Struc: 91.7 - 91.71 Moderate dominant foliation>>

<<Struc: 92 - 92 Orientation Lock Angle>> Locking angle based on using orientation mark above 92 m as reference point.

<<Struc: 92.2 - 92.21 Moderate dominant foliation>>

<<Struc: 92.5 - 92.51 Weak Joint (fracture)>>

<<Struc: 93.5 - 93.51 Moderate dominant foliation>>

93.70 124.50 RHYvl Lapilli tuff

93.7 - 124.5: 5% PY replaced lapilli, 111.1-** strong foliation, 15% gouge zones

<<Min: 111 - 113 5% Min: Sphalerite>>

<<Min: 111 - 113 30% Min: Pyrite>> semi massive bands

<<Min: 113 - 124.5 5% Min: Pyrite>>

<<Struc: 93.9 - 93.91 Weak Joint (fracture)>>

<<Struc: 94.2 - 94.22 Weak-Moderate Fault>>

<<Struc: 94.6 - 94.61 Moderate dominant foliation>>

<<Struc: 95 - 95 Orientation Lock Angle>> Orientation line extended confidently above 95m to 92m.

<<Struc: 95.1 - 95.11 Moderate dominant foliation>>

<<Struc: 95.6 - 95.61 Weak Joint (fracture)>>

<<Struc: 96.3 - 96.31 Weak Joint (fracture)>>

<<Struc: 96.8 - 96.81 Moderate dominant foliation>>

<<Struc: 97.5 - 97.51 Moderate dominant foliation>>

<<Struc: 98.3 - 98.31 Weak Joint (fracture)>>

<<Struc: 98.4 - 98.41 Weak Joint (fracture)>>

<<Struc: 98.8 - 98.81 Moderate dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Struc: 100 - 100.01 Moderate dominant foliation>>											
<<Struc: 100 - 101 Weak-Moderate Fault>>											
<<Struc: 101.3 - 101.31 Moderate dominant foliation>>											
<<Struc: 101.8 - 108.81 Weak Joint (fracture)>>											
<<Struc: 102.6 - 102.61 Moderate dominant foliation>>											
<<Struc: 102.8 - 102.81 Moderate dominant foliation>>											
<<Struc: 103.3 - 103.31 Weak Joint (fracture)>>											
<<Struc: 104 - 104 Orientation Lock Angle>> Orientation mark extended confidently above 104m to 101m.											
<<Struc: 104.5 - 104.51 Moderate dominant foliation>>											
<<Struc: 104.7 - 104.71 Weak Joint (fracture)>>											
<<Struc: 105.2 - 105.21 Weak Joint (fracture)>>											
<<Struc: 105.6 - 105.61 Moderate dominant foliation>>											
<<Struc: 105.9 - 105.91 Moderate dominant foliation>>											
<<Struc: 106 - 106.01 Weak Joint (fracture)>>											
<<Struc: 106.5 - 106.51 Moderate dominant foliation>>											
<<Struc: 107 - 107 Orientation Lock Angle>> Orientation line extended confidently above 107m to 104m.											
<<Struc: 107.2 - 107.21 Moderate dominant foliation>>											
<<Struc: 107.7 - 107.71 Weak Joint (fracture)>>											
<<Struc: 107.9 - 107.91 Moderate dominant foliation>>											
<<Struc: 108.3 - 108.31 Weak Joint (fracture)>>											
<<Struc: 109.3 - 109.31 Weak Joint (fracture)>>											
<<Struc: 109.7 - 109.71 Weak Joint (fracture)>>											
<<Struc: 110 - 110 Orientation Lock Angle>> Orientation line extended confidently above 110m to 107m. Orientation line extended below 110m to 111.1m using orientation mark above. Orientation line could not be extended below 111.1 due to faulit zone.											
<<Struc: 110.4 - 110.41 Weak dominant foliation>>											
<<Struc: 110.7 - 110.71 Weak Joint (fracture)>>											
<<Struc: 111 - 111.01 Moderate dominant foliation>>											
<<Struc: 111.1 - 120.4 Moderate-Strong Shear>>											
<<Struc: 113.5 - 113.51 Moderate-Strong dominant foliation>>											
<<Struc: 116.5 - 116.51 Moderate-Strong dominant foliation>>											
<<Struc: 116.6 - 116.61 Moderate-Strong dominant foliation>>											
<<Struc: 116.7 - 116.71 Moderate-Strong dominant foliation>>											
<<Struc: 117.4 - 118.1 Intense Fault>> Original texture destroyed, fault gouge throughout, sharp darker biotite rich lower contact											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 119 - 119.01 Moderate dominant foliation>>

<<Struc: 120.65 - 120.65 Moderate Joint (fracture)>>

<<Struc: 121.2 - 121.21 Weak Joint (fracture)>>

<<Struc: 121.37 - 121.37 Joint (fracture)>>

<<Struc: 123.4 - 123.41 Weak Joint (fracture)>>

<<Struc: 123.9 - 123.91 Moderate dominant foliation>>

124.50 128.00 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

124.5 - 128: minor irregular bands PY-SP

<<Min: 124.5 - 138 2% Min: Sphalerite>>

<<Min: 124.5 - 138 5% Min: Pyrite>>

<<Min: 124.5 - 138 5% Min: Pyrrhotite>>

<<Struc: 124.8 - 124.8 dominant foliation>>

<<Struc: 126.1 - 126.11 Moderate dominant foliation>>

<<Struc: 126.5 - 126.51 Weak Joint (fracture)>>

128.00 153.40 RHYvl Lapilli tuff

<<Min: 138 - 172.2 3% Min: Pyrite>>

<<Min: 138 - 172.2 7% Min: Pyrrhotite>>

<<Alt: 140.3 - 164 Trace Chlorite>>

<<Struc: 129.5 - 129.51 Weak Joint (fracture)>>

<<Struc: 130 - 130.01 Moderate dominant foliation>>

<<Struc: 130.24 - 130.24 Moderate Joint (fracture)>> Jt following foliation

<<Struc: 131.78 - 131.78 dominant foliation>>

<<Struc: 134.1 - 134.13 Moderate Fault>>

<<Struc: 134.2 - 134.21 Moderate dominant foliation>>

<<Struc: 135.07 - 135.07 Moderate-Strong Joint (fracture)>>

<<Struc: 135.48 - 135.48 Moderate-Strong dominant foliation>>

<<Struc: 136.55 - 136.6 Moderate Fault>> Small fault with damaged rock and swelling gouge

<<Struc: 139.8 - 139.81 Moderate dominant foliation>>

<<Struc: 139.9 - 139.9 Moderate Joint (fracture)>>

<<Struc: 142.3 - 142.32 Moderate Fault>>

<<Struc: 143 - 143 Orientation Lock Angle>> Lock angle between orientation marks at 143 m and 146 m.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Struc: 143.28 - 143.28 Strong dominant foliation>>											
<<Struc: 144.5 - 144.5 dominant foliation>>											
<<Struc: 145.7 - 145.71 Moderate dominant foliation>>											
<<Struc: 146.39 - 146.39 Moderate-Strong dominant foliation>>											
<<Struc: 148.28 - 148.28 dominant foliation>>											
<<Struc: 148.7 - 148.71 Moderate dominant foliation>>											
<<Struc: 149 - 149 Orientation Lock Angle>> Lock angle between orientation marks at 149 m and 152 m.											
<<Struc: 150 - 150 Trace dominant foliation>>											
<<Struc: 151.2 - 151.21 Weak Joint (fracture)>>											
<<Struc: 152.35 - 152.35 dominant foliation>>											
<<Struc: 152.9 - 152.91 Weak Joint (fracture)>>											
153.40 154.80 RHYva Coarse grained to ash tuff											
<<Struc: 154.3 - 154.31 Weak Joint (fracture)>>											
<<Struc: 154.6 - 154.61 Moderate dominant foliation>>											
154.80 172.20 RHYvl Lapilli tuff			168.00	169.50	1.50	D00004555	-0.005	-0.3	-0.01	-0.01	0.05
<<Alt: 164 - 169 Weak Muscovite>>			169.50	171.00	1.50	D00004556	-0.005	-0.3	-0.01	-0.01	0.04
<<Alt: 164 - 172.2 Weak Chlorite>>			171.00	172.20	1.20	D00004557	-0.005	-0.3	-0.01	0.01	0.03
<<Alt: 169 - 172.2 Moderate Muscovite>>											
<<Struc: 158.73 - 158.73 Moderate Joint (fracture)>>											
<<Struc: 159.8 - 159.81 Weak Joint (fracture)>>											
<<Struc: 159.9 - 159.91 Moderate dominant foliation>>											
<<Struc: 162.48 - 162.48 Weak-Moderate dominant foliation>>											
<<Struc: 164 - 164.01 Moderate dominant foliation>>											
<<Struc: 166.9 - 166.91 Moderate dominant foliation>>											
<<Struc: 168.09 - 168.09 Strong dominant foliation>>											
172.20 175.50 OJ Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock			172.20	173.30	1.10	D00004558	0.031	2.5	0.08	-0.01	0.09
172.2 - 175.5: moderate CI-CL alteration minor patchy msv CP minor SP, low grade											
<<Min: 172.2 - 175.5 2% Min: Pyrite>>			173.30	174.40	1.10	D00004559	0.043	2.6	0.22	-0.01	0.08
<<Min: 172.2 - 175.5 7% Min: Pyrrhotite>>			174.40	175.50	1.10	D00004561	0.033	5.2	0.2	0.02	0.04
<<Min: 172.2 - 175.5 2% Min: Chalcopyrite>>											

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-430

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Alt: 172.2 - 174.5 Moderate Chlorite>>											
<<Alt: 172.2 - 174.5 Moderate Cordierite>>											
<<Alt: 172.2 - 182 Weak Muscovite>>											
<<Alt: 174.5 - 175.5 Weak Chlorite>>											
<<Alt: 174.5 - 175.5 Weak Cordierite>>											
<<Struc: 173.1 - 173.13 Moderate-Strong Fault>>											
<<Struc: 174.33 - 174.33 Strong dominant foliation>>											
175.50	**182.00**	**RHYcw** **Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)**	175.50	176.70	1.20	D00004562	0.008	1.7	0.07	0.01	0.01
175.5 - 182: silvery, MS altered											
<<Min: 175.5 - 182 2% Min: Pyrite>>			176.70	178.10	1.40	D00004563	-0.005	0.6	-0.01	-0.01	-0.01
<<Min: 175.5 - 182 3% Min: Pyrrhotite>>			178.10	179.50	1.40	D00004564	-0.005	0.8	-0.01	-0.01	-0.01
<<Struc: 176.6 - 176.62 Moderate-Strong Fault>>											
<<Struc: 177.7 - 177.7 Weak-Moderate dominant foliation>>											
<<Struc: 178.2 - 178.21 Moderate dominant foliation>>											
<<Struc: 178.55 - 178.55 Strong dominant foliation>>											
<<Struc: 180.05 - 180.05 Weak-Moderate Joint (fracture)>>											
<<Struc: 180.76 - 180.76 Moderate dominant foliation>>											
<<Struc: 181.1 - 181.11 Moderate dominant foliation>>											
End of Hole @ 182											

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-431

Prospect:	Infrastructure	Hole Type:	ODEX/DD	Survey Type:	RTK DGPS	Logged By:	Knight Piésold
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/7/2017
UTM Easting	414852.557	Core Size:		Azimuth:	0	Date Logging Complete:	7/7/2017
UTM Northing:	6815653.154	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1395.733	Casing Depth (m):		Length (m):	4.14	Drill Rig:	Prospector
Local Easting:		Stored?:	No	Claims Title	KZK	Drill Started:	7/7/2017
Local Northing:		Cemented?:	SP	Core Storage Loc.:	No Core	Drill Completed:	7/7/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
						Parent Hole:	

Comments:

K17-431 was drilled as a part of the 2017 infrastructure drilling program. A 1.25" stand pipe was installed.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/7/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.14**	**OVBN Overburden**									
End of Hole @ 4.14											

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-432

Prospect:	Infrastructure	Hole Type:	ODEX/DD	Survey Type:	GPS	Logged By:	Knight Piésold
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Knight Piésold	Date Logging Start:	7/8/2017
UTM Easting	414693	Core Size:		Azimuth:	0	Date Logging Complete:	7/8/2017
UTM Northing:	6815651	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1400	Casing Depth (m):		Length (m):	4.27	Drill Rig:	Prospector
Local Easting:		Stored?:	No	Claims Title	KZK	Drill Started:	7/8/2017
Local Northing:		Cemented?:	SP	Core Storage Loc.:	No Core	Drill Completed:	7/8/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
						Parent Hole:	

Comments:

K17-432 was drilled as a part of the 2017 infrastructure drilling program. A 1.25" stand pipe was installed.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/8/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.27**	**OVBN Overburden**									
End of Hole @ 4.27											

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-433

Prospect:	Infrastructure	Hole Type:	ODEX/DD	Survey Type:	RTK DGPS	Logged By:	Knight Piésold
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/8/2017
UTM Easting	414857.3156	Core Size:		Azimuth:	0	Date Logging Complete:	7/8/2017
UTM Northing:	6815817.8536	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1392.854	Casing Depth (m):		Length (m):	4.57	Drill Rig:	Prospector
Local Easting:		Stored?:	No	Claims Title	KZK	Drill Started:	7/8/2017
Local Northing:		Cemented?:	SP	Core Storage Loc.:	No Core	Drill Completed:	7/8/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
						Parent Hole:	

Comments:

K17-433 was drilled as a part of the 2017 infrastructure drilling program. A 1.25" stand pipe was installed.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/8/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.57**	**OVBN Overburden**									
End of Hole @ 4.57											

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-434

Prospect:	Infrastructure	Hole Type:	ODEX/DD	Survey Type:	RTK DGPS	Logged By:	Knight Piésold
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/8/2017
UTM Easting	414806.923	Core Size:		Azimuth:	0	Date Logging Complete:	7/8/2017
UTM Northing:	6815494.849	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1398.862	Casing Depth (m):		Length (m):	3.57	Drill Rig:	Prospector
Local Easting:		Stored?:	No	Claims Title	KZK	Drill Started:	7/8/2017
Local Northing:		Cemented?:	SP	Core Storage Loc.:	No Core	Drill Completed:	7/8/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
						Parent Hole:	

Comments:

K17-434 was drilled as a part of the 2017 infrastructure drilling program. A 1.25" stand pipe was installed.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/8/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**3.57**	**OVBN Overburden**									
End of Hole @ 3.57											

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-435

Prospect:	Infrastructure	Hole Type:	ODEX/DD	Survey Type:	RTK DGPS	Logged By:	Knight Piésold
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/8/2017
UTM Easting	414690.9178	Core Size:		Azimuth:	0	Date Logging Complete:	7/9/2017
UTM Northing:	6815486.519	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1421.457	Casing Depth (m):		Length (m):	8.65	Drill Rig:	Prospector
Local Easting:		Stored?:	No	Claims Title	KZK	Drill Started:	7/8/2017
Local Northing:		Cemented?:	SP	Core Storage Loc.:	No Core	Drill Completed:	7/9/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
						Parent Hole:	

Comments:

K17-435 was drilled as a part of the 2017 infrastructure drilling program. A 1.25" stand pipe was installed.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/8/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**8.65**	**OVBN Overburden**									
End of Hole @ 8.65											

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-436

Prospect:	Infrastructure	Hole Type:	ODEX/DD	Survey Type:	GPS	Logged By:	Knight Piésold
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Knight Piésold	Date Logging Start:	7/9/2017
UTM Easting	414693	Core Size:		Azimuth:	0	Date Logging Complete:	7/9/2017
UTM Northing:	6815793	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1385	Casing Depth (m):		Length (m):	4.27	Drill Rig:	Prospector
Local Easting:		Stored?:	No	Claims Title	KZK	Drill Started:	7/9/2017
Local Northing:		Cemented?:	SP	Core Storage Loc.:	No Core	Drill Completed:	7/9/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
						Parent Hole:	

Comments:

K17-436 was drilled as a part of the 2017 infrastructure drilling program. A 1.25" stand pipe was installed.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/8/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.27**	**OVBN Overburden**									
End of Hole @ 4.27											

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-437

Prospect:	Krakatoa	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/22/2017
UTM Easting	414983.976	Core Size:	HQ3	Azimuth:	160	Date Logging Complete:	7/23/2017
UTM Northing:	6814933.596	Casing Pulled?:	Yes	Dip:	-60	Drill Company:	New Age
UTM Elev. (m):	1388.882	Casing Depth (m):	26	Length (m):	152	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/11/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/13/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
						Parent Hole:	

Comments:

K17-424 was drilled to study the geotechnical properties of the proposed open pit high-wall. Packer testing was completed, however optical and acoustic surveys were cancelled due to hole cave-in during reaming and tripping out.
Overburden was encountered to 26.1 m depth. Aphanitic rhyolite occurs from 26.1 to 34.79 m, with OB style mineralization directly below from 34.79 to 37.17 m. In the footwall of the mineralization a mafic intrusive occurs to 41.09 m. Below the mafic intrusive intercalated volcaniclastic rhyolite and aphanitic rhyolite occur to 94.31 m. From 94.31 to 127.15 m a large zone with fault rock and intact wedges of volcaniclastic rhyolite (98-100.68 m) and mafic intrusive (112.83-122.82 m) occurs. Below the fault zone volcaniclastic rhyolite extends to the bottom of the hole (152 m).

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-60	160	0	160	PLND-LiDAR	Trent Newkirk	7/11/2017		☑	
44	-71.6	9	21.7	30.7	EZ-TRAC	New Age	7/12/2017	58269	☐	
75	-72	8.9	21.7	30.6	EZ-TRAC	New Age	7/12/2017	58259	☐	
100	-71.3	9.6	21.7	31.3	EZ-TRAC	New Age	7/12/2017	57848	☐	
125	-72.4	9.4	21.7	31.1	EZ-TRAC	New Age	7/13/2017	58020	☐	
150	-72.1	8.5	21.7	30.2	EZ-TRAC	New Age	7/13/2017	58176	☐	

From (m)	To (m)	Rocktype & Description
0.00	**26.10**	**OVBN Overburden**
26.10	**34.79**	**RHYi Aphanitic Rhyolite (intrusion)**
26.1 - 34.79: Light grey-pink, aphanitic, siliceous, rhyolite with minor disseminated sulfide and fracture-filling sulfide.		
<<Min: 26.1 - 34.79 2% Min: Sphalerite>>		
<<Min: 26.1 - 34.79 3% Min: Pyrite>>		
<<Min: 26.1 - 34.79 1% Min: Galena>>		
<<Alt: 26.1 - 34.79 Weak Calcite>>		

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
29.00	30.50	1.50	D00004565	0.024	9.12	-0.01	0.2	0.29
30.50	32.00	1.50	D00004566	0.007	1.87	-0.01	0.06	0.03
32.00	34.79	2.79	D00004567	0.013	0.87	-0.01	0.02	-0.01

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
34.79	**37.17**	**OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	34.79	36.00	1.21	D00004568	1.35	258	0.49	4.45	10.9
34.79 - 37.17: Massive pyrite with disseminated to patchy sphalerite, disseminated galena, and minor patchy chalcopyrite. Disseminated medium-grained cordierite and fine grained calcite exists throughout. Local buckshot textured pyrite near the lower contact.											
<<Min: 34.79 - 37.17 5% Min: Sphalerite>>			36.00	37.17	1.17	D00004569	0.826	120	0.28	2.05	6.92
<<Min: 34.79 - 37.17 75% Min: Pyrite>>											
<<Min: 34.79 - 37.17 1% Min: Galena>>											
<<Min: 34.79 - 37.17 0.5% Min: Chalcopyrite>>											
<<Alt: 34.79 - 37.17 Weak Cordierite>>											
<<Alt: 34.79 - 37.17 Moderate Calcite>>											
37.17	**41.09**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**	37.17	38.50	1.33	D00004571	0.018	3.14	-0.01	0.05	0.1
37.17 - 41.09: Green, BI-CL-CA schist.											
<<Alt: 37.17 - 37.34 Moderate Biotite>>			38.50	39.90	1.40	D00004572	-0.005	-0.3	-0.01	-0.01	-0.01
<<Alt: 37.17 - 41.09 Moderate-Strong Calcite>>			39.90	41.09	1.19	D00004573	0.032	2.93	-0.01	0.05	-0.01
<<Alt: 40.4 - 41.09 Moderate Biotite>>											
<<Struc: 37.3 - 37.5 Weak Fault>> Broken rock with minor gouge below MXSX and MAFi contact											
41.09	**41.40**	**OJ** **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	41.09	41.60	0.51	D00004574	1.59	220	0.25	1.44	2.19
<<Min: 41.09 - 41.4 3% Min: Sphalerite>>											
<<Min: 41.09 - 41.4 10% Min: Pyrite>>											
<<Alt: 41.09 - 42 Weak-Moderate Muscovite>>											
<<Alt: 41.09 - 44.43 Weak-Moderate Calcite>>											
41.40	**44.43**	**RHYvl** **Lapilli tuff**	41.60	43.00	1.40	D00004575	0.013	1.77	-0.01	0.02	0.01
41.4 - 44.43: Light grey, fine grained felsic matrix with disseminated white, stretched, felsic clasts/lapilli.											
<<Min: 41.4 - 88.8 1% Min: Sphalerite>>			43.00	44.43	1.43	D00004576	-0.005	-0.3	-0.01	-0.01	-0.01
<<Min: 41.4 - 88.8 2% Min: Pyrite>>											

From (m)	To (m)	Rocktype & Description
44.43	**56.85**	**RHYi** **Aphanitic Rhyolite (intrusion)**

44.43 - 56.85: Light grey, fine grained to aphanitic with local mottled siliceous texture. Probably a contact between RHYv and RHYi.

<<Alt: 44.43 - 112.83 Weak Calcite>>

<<Vein: 45.43 - 45.65 100% Quartz 70 deg. >> Massive Qz vein with altered wallrock clasts and minor PY+SP

<<Vein: 53.53 - 53.58 90% Quartz-Carbonate>> Irregular qz-carbonate vein

56.85	**61.84**	**RHYi** **Aphanitic Rhyolite (intrusion)**

56.85 - 61.84: Light grey to pink, aphanitic, non-foliated, siliceous rhyolite with abundant brittle fractures infilled with silica and sulfide.

61.84	**67.98**	**RHYva** **Coarse grained to ash tuff**

61.84 - 67.98: Light grey, fine grained, ash tuff with minor white pebble-sized stretched clasts/lapilli.

67.98	**88.80**	**RHYi** **Aphanitic Rhyolite (intrusion)**

67.98 - 88.8: Light grey to pink, aphanitic, non-foliated, siliceous rhyolite with abundant brittle fractures infilled with silica and sulfide.

<<Vein: 68.5 - 70.8 2% Quartz 85 deg. >> Zone with minor narrow (~1 cm wide) quartz veins

88.80	**94.31**	**RHYv** **Undifferentiated Rhyolite volcaniclastic**

88.8 - 94.31: Yellowish-grey, QZ-MU schist with penetrative foliation and coarse sand sized blebs of quartz and felsic material.

<<Min: 88.8 - 94.31 3% Min: Pyrite>>

<<Alt: 88.8 - 94.31 Moderate Muscovite>>

<<Struc: 90.3 - 91 Weak Fault>> Broken rock with gouge surfaces

94.31	**98.00**	**FLZ** **Fault Zone**

94.31 - 98: QZ-Sericite clast-supported fault breccia with qz-sericite gouge matrix.

<<Struc: 94.31 - 98 Moderate Fault>> Clast-supported fault breccia

98.00	**100.68**	**RHYvl** **Lapilli tuff**

98 - 100.68: Yellowish-grey, QZ-MU schist with penetrative foliation and coarse sand to pebble sized stretched clasts/blebs of quartz and felsic material.

<<Alt: 98 - 100.68 Moderate Muscovite>>

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
44.43	45.78	1.35	D00004577	-0.005	0.54	-0.01	0.02	-0.01

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

100.68 112.83 FLZ Fault Zone

100.68 - 112.83: Clay-sericite-carbonaceous gouge-supported fault breccia with clasts of RHY, MDS, +/- MAFi. Offsets RHYi/RHYv above with MAFi below.

<<Struc: 100.68 - 112.83 Strong Fault>> Gouge-supported, polymictic, fault breccia

112.83 122.82 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

112.83 - 122.82: Green, Chlorite-Calcite-Biotite schist with penetrative foliation. Faulted upper and lower contacts.

<<Alt: 112.83 - 122.82 Moderate-Strong Calcite>>

<<Struc: 118.15 - 118.15 Weak-Moderate dominant foliation>> Chlorite penetrative foliation in MAFi

122.82 127.15 FLZ Fault Zone

122.82 - 127.15: Clay-sericite-carbonaceous gouge-supported fault breccia with clasts of RHY, MDS, +/- MAFi.

<<Alt: 122.82 - 127.15 Moderate Calcite>>

<<Struc: 122.82 - 127.15 Strong Fault>> Gouge-supported, polymictic, fault breccia

127.15 133.17 RHYvl Lapilli tuff

127.15 - 133.17: Yellowish-grey, quartz-sericite schist with penetrative foliation. Matrix-supported with pebble-sized stretched felsic clasts/lapilli.

<<Min: 127.15 - 130.45 5% Min: Pyrite>>

<<Min: 130.45 - 152 2% Min: Pyrite>>

<<Alt: 127.15 - 130.45 Moderate Muscovite>>

<<Alt: 127.15 - 152 Weak Calcite>>

<<Struc: 127.69 - 127.69 Moderate dominant foliation>> Penetrative MU cleavage in RHYvl

<<Struc: 130.34 - 130.34 Moderate-Strong dominant foliation>> Penetrative MU foliation in RHYvl

133.17 134.45 RHYva Coarse grained to ash tuff

133.17 - 134.45: Light olive green to black, fine grained meta-siltstone/ash tuff? Local band with carbonaceous material near the bottom of the unit.

<<Vein: 134.06 - 134.45 100% Quartz 80 deg. >> Massive quartz vein with minor sulfide and altered wallrock clasts

<<Struc: 133.6 - 133.6 Moderate dominant foliation>> Penetrative MU foliation in RHYva

<<Struc: 134 - 134 Orientation Lock Angle>> Lock angle between orientation marks at 134 m and 137 m.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

134.45 152.00 RHYvl Lapilli tuff

134.45 - 152: Light grey, qz-muscovite schist with pebble sized stretched felsic clasts and a penetrative foliation. Note that many of the clasts in the last 4-5 boxes have oxidized to an orange-cream colour (oxidized ankerite?) because they have been on top of a pallet for ~11 days.

<<Struc: 136.31 - 136.31 Moderate dominant foliation>> Penetrative MU foliation in RHYvl

<<Struc: 145.6 - 145.64 Weak-Moderate Fault>> Narrow fault gouge zone with deflected foliation around.

<<Struc: 148.56 - 148.56 Moderate dominant foliation>> Penetrative Mu foliation in RHYvl

End of Hole @ 152

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-438

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/24/2017
UTM Easting	415179.2019	Core Size:	HQ3	Azimuth:	110	Date Logging Complete:	7/26/2017
UTM Northing:	6815389.988	Casing Pulled?:	Yes	Dip:	-60	Drill Company:	New Age
UTM Elev. (m):	1413.986	Casing Depth (m):	9	Length (m):	191	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/14/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/18/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-438 was drilled to study the geotechnical properties of the proposed open pit high-wall. Optical and acoustic televiewer surveys were completed in the borehole, as well as packer testing above and below the largest fault zone.
Overburden extends to 4.94 m. Intercalated felsic volcanics, metapelites, carbonaceous mudstones, and mafic intrusives occur throughout the hole, with significant fault-breccia zones from 66.8-75.3 m, 124.3-133.7 m, 136.45-137.72 m, 142.45-144.3 m, 148.8-149.3 m. Damage zones around these fault rocks extend well into the wallrock. No significant alteration or mineralization was encountered in K17-438.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-60	110	0	110	PLND-LiDAR	Trent Newkirk	7/14/2017		☑	
17	-59.5	86.5	21.7	108.2	EZ-TRAC	New Age	7/15/2017	57865	☑	
25	-60.4	90.3	21.7	112	EZ-TRAC	New Age	7/15/2017	57678	☑	
75	-62.4	91.1	21.7	112.8	EZ-TRAC	New Age	7/15/2017	56961	☑	
100	-63.2	91.9	21.7	113.6	EZ-TRAC	New Age	7/16/2017	57233	☑	
125	-64	91.5	21.7	113.2	EZ-TRAC	New Age	7/16/2017	57128	☑	
150	-64.1	87.9	21.7	109.6	EZ-TRAC	New Age	7/16/2017	56759	☑	
182	-64.3	87.1	21.7	108.8	EZ-TRAC	New Age	7/17/2017	56926	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.94**	**OVBN Overburden**									
		<<Alt: 4.3 - 38.2 Trace Calcite>>									
4.94	**11.60**	**RHYvl Lapilli tuff**									
		4.94 - 11.6: Medium grey, matrix-supported lapilli tuff with wispy to patchy carbonaceous material. Penetrative foliation and stretched lapilli clasts ~55 degrees TCA.									
		<<Min: 4.94 - 124.3 1% Min: Pyrrhotite>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

11.60 38.20 RHYvl Lapilli tuff

11.6 - 38.2: Light grey, matrix-supported lapilli tuff. Groundmass has oxidized to a pale cream colour (after drilling?). Penetrative foliation and lineation defined by stretched clasts ~50 degrees TCA.

<<Vein: 25.35 - 25.65 20% Quartz-Carbonate 50 deg. >> Zone with qz-carbonate veining

38.20 39.90 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

38.2 - 39.9: Dark brown-black, BI-QZ-CA schist. Well developed penetrative foliation ~60 degrees TCA.

<<Alt: 38.2 - 39.9 Moderate Calcite>>

39.90 45.70 RHYvx Quartz and/or feldspar crystal tuff

39.9 - 45.7: Light grey, matrix-to-clast-supported, lapilli tuff with disseminated fine to medium grained blue quartz phenocrysts. Penetrative foliation with lineation defined by elongated lapilli ~40 degrees TCA.

<<Alt: 39.9 - 66.8 Trace Calcite>>

45.70 66.80 RHYvl Lapilli tuff

45.7 - 66.8: Light grey, matrix-supported, lapilli tuff. Penetrative foliation with a lineation defined by the stretched lapilli ~25-40 degrees TCA.

<<Struc: 63.5 - 66.8 Weak Fault>> Damage zone around fault core

66.80 75.30 FLZ Fault Zone

66.8 - 75.3: Pebble to granular clast-supported fault breccia with clay-gouge matrix. Dominantly RHY clasts with minor MDS clasts.

<<Alt: 66.8 - 75.3 Weak Calcite>>

<<Struc: 66.8 - 71 Moderate-Strong Fault>> Fault gouge-breccia to highly broken rock

<<Struc: 71 - 77 Weak Fault>> Damage zone around fault core

75.30 76.70 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

75.3 - 76.7: Dark brown-black, biotite-calcite schist. Penetrative foliation is subparallel to the core axis (~5-10 degrees TCA), unlike the up-hole foliation. Potentially wrapped from the faulting.

<<Alt: 75.3 - 76.7 Moderate Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

76.70 97.90 RHYv Undifferentiated Rhyolite volcaniclastic

76.7 - 97.9: Light grey-green, fine grained ash (?) matrix +/- round to stretched felsic clasts. Penetrative foliation is at a low angle TCA, weak lineation defined by the stretched clasts ~10 degrees TCA.

<<Alt: 76.7 - 131.64 Weak Calcite>>

<<Struc: 86 - 89 Weak-Moderate Fault>> Damage zone with minor gouge slip-surfaces

97.90 108.90 RHYva Coarse grained to ash tuff

97.9 - 108.9: light grey-green to brown, fine grained sericite-chlorite-biotite-calcite schist. Looks to be a mixture of felsic ash (?) and pelitic (?) materials. Well developed penetrative foliation ~30 degrees TCA.

<<Vein: 108.1 - 108.15 100% Quartz-Tourmaline 60 deg. >> QZ-TML vein

108.90 124.30 RHYv Undifferentiated Rhyolite volcaniclastic

108.9 - 124.3: Light grey, QZ-MU schist with minor blebs/clasts of felsic material. Penetrative foliation defined by sericite-quartz banding ~40 degrees TCA. Minor blebby pyrrhotite.

<<Struc: 123 - 124.3 Weak Fault>> Damage zone around fault core

124.30 133.70 FLZ Fault Zone

124.3 - 133.7: Polymictic, gouge-supported fault breccia with clasts ranging from granular to pebble size and RHY to MDS in composition.

<<Alt: 131.64 - 136.83 Moderate Calcite>>

<<Struc: 124.3 - 131.6 Strong Fault>> Gouge-supported fault breccia

<<Struc: 131.6 - 136.85 Weak Fault>> Damage zone around fault core

133.70 136.45 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

133.7 - 136.45: Medium pale green, chlorite schist with disseminated biotite and wispy calcite. Penetrative foliation ~25 degrees TCA.

136.45 137.72 FLZ Fault Zone

136.45 - 137.72: Polymictic, gouge-supported fault breccia with clasts ranging from granular to pebble size and RHY to MDS in composition.

<<Alt: 136.83 - 191 Weak-Moderate Calcite>>

<<Struc: 136.85 - 137.72 Strong Fault>> Gouge-supported fault breccia

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

137.72 142.45 RHYvx Quartz and/or feldspar crystal tuff

137.72 - 142.45: Light grey, sericite-QZ-FD schist with medium to coarse grained quartz and feldspar phenocrysts. FD phenos are white, subhedral, and elongated. QZ phenos are blue and round. Anastomosing foliation and lineation defined by elongated FD ~25 degrees TCA. Highly fractured as part of a damage zone around brittle faulting.

<<Vein: 139 - 139.3 100% Quartz-Carbonate 40 deg. >> Massive qz-carb vein. Partially broken up into fault zone (older than fault).

<<Struc: 137.72 - 142.45 Weak Fault>> Damage zone around fault core

<<Struc: 142.25 - 144.3 Strong Fault>> Gouge-supported fault breccia

142.45 144.30 FLZ Fault Zone

142.45 - 144.3: Polymictic, gouge-supported fault breccia with clasts ranging from granular to pebble size and RHY to MDS in composition.

144.30 145.75 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

144.3 - 145.75: Black, carbonaceous groundmass with elongated CA clasts/lapilli (?). Penetrative foliation and lineation defined by clasts ~20 degrees TCA. Minor buckle folding near lower contact.

<<Struc: 144.3 - 148.8 Moderate Fault>> Damage zone around fault core

145.75 148.80 RHYvl Lapilli tuff

145.75 - 148.8: Light grey, matrix-supported lapilli tuff. Strong shear foliation and lineation defined by elongated lapilli ~25 degrees TCA. Within the damage zone around fault zone.

148.80 149.30 FLZ Fault Zone

148.8 - 149.3: Gouge-supported fault breccia. High core loss.

<<Struc: 148.8 - 149.3 Strong Fault>> Gouge-supported fault breccia

149.30 158.03 RHYvl Lapilli tuff

149.3 - 158.03: Light grey, matrix to clast-supported lapilli tuff. Well developed penetrative foliation and lineation defined by elongated lapilli ~5 degrees TCA.

<<Min: 149.3 - 174.2 1% Min: Pyrrhotite>>

<<Struc: 149.3 - 152 Weak Fault>> Damage zone around fault core

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

158.03 167.76 MDSt Rhyolite tuff dominant mudstone

158.03 - 167.76: Dark grey to black, carbonaceous groundmass with felsic clasts/lapilli. Well developed penetrative foliation and lineation ~50 degrees TCA.

167.76 177.70 RHYvl Lapilli tuff

167.76 - 177.7: Light grey to green, intermediate tuff/sediment(?). Lower portion of unit is felsic (quartz + carbonate) clast-supported with a chlorotic matrix and disseminated biotite. Grades upward into chlorite-sericite matrix supported with disseminated felsic (carbonate + quartz) clasts. Disseminated BI exists from 174.15 to 177.7 m. Penetrative foliation and lineation defined by stretched clasts ~50 degrees TCA.

<<Vein: 168.7 - 170.1 100% Quartz-Carbonate 45 deg. >> Massive qz-carb vein

177.70 187.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

177.7 - 187: Light green to brown, chlorite-calcite-biotite schist. Biotite porphyroblasts are disseminated and don't appear to be stretched into the foliation. Maybe MAFt? Well developed penetrative foliation ~50 degrees TCA.

<<Vein: 185 - 186 10% Quartz-Carbonate 85 deg. >> Zone with qz-carb veining

187.00 191.00 RHYvl Lapilli tuff

187 - 191: Light grey, fine grained quartz-sericite matrix-supported lapilli tuff, with quartz-carbonate stretched clasts. Well developed penetrative foliation and lineation ~50 degrees TCA.

<<Min: 187 - 191 1% Min: Pyrrhotite>>

End of Hole @ 191

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-439

Prospect:	ABM	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/26/2017
UTM Easting	415400.3288	Core Size:	HQ3	Azimuth:	110	Date Logging Complete:	7/29/2017
UTM Northing:	6815418.487	Casing Pulled?:	Yes	Dip:	-60	Drill Company:	New Age
UTM Elev. (m):	1515.586	Casing Depth (m):	9	Length (m):	120	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/20/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/24/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-439 was drilled to study the geotechnical properties of the proposed open pit high-wall. Optical and acoustic televiewer surveys were completed on the borehole. Overburden was encountered to 7.7 m. The entire hole consisted of intercalated mudstone, meta-sediments, and mafic volcanics of the Wind Lake group.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-60	110	0	110	PLND-LiDAR	Trent Newkirk	7/20/2017		☑	
25	-60.8	84.4	21.7	106.1	EZ-TRAC	New Age	7/22/2017	57134	☑	
50	-62	85.7	21.7	107.4	EZ-TRAC	New Age	7/22/2017	57231	☑	
75	-62.3	88	21.7	109.7	EZ-TRAC	New Age	7/22/2017	57353	☑	
100	-62.1	24.6	21.7	46.3	EZ-TRAC	New Age	7/23/2017	54268	☐	
120	-62.5	91.8	21.7	113.5	EZ-TRAC	New Age	7/23/2017	57184	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**7.70**	**OVBN** **Overburden**									
7.70	**15.27**	**MAFt** **Undifferentiated mafic volcaniclastic**									

7.7 - 15.27: Dark green, fine grained, well foliated, mafic tuff with stretched pebble-sized clasts near bottom of the unit. Well developed penetrative foliation ~45 degrees TCA.

<<Min: 7.7 - 120 1% Min: Pyrite>>

<<Min: 7.7 - 120 0.5% Min: Pyrrhotite>>

<<Alt: 7.7 - 15.27 Weak-Moderate Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

15.27 18.00 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

15.27 - 18: Black, carbonaceous/argillic slate/mudstone. Well developed penetrative foliation ~40 degrees TCA.

<<Alt: 15.27 - 49.6 Moderate Calcite>>

18.00 18.96 MAFt Undifferentiated mafic volcaniclastic

18 - 18.96: Medium green, well foliated, fine grained, mafic tuff. Abundant wavy to ptygmatic calcite veinlets. Well developed foliation ~40 degrees TCA.

18.96 24.00 MAFw mafic volcanic flows

18.96 - 24: Medium green, poorly foliated to massive, fine grained, chlorite-biotite-quartz basalt flow/dyke. Large massive quartz-carbonate veins cut through and below the unit.

<<Vein: 19.9 - 22.3 100% Quartz-Carbonate 55 deg. >> Massive quartz-carbonate vein with altered wallrock clasts within

24.00 32.75 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

24 - 32.75: Black, carbonaceous mudstone with local carbonaceous pebble clasts within. Well developed foliation ~40 degrees TCA.

<<Vein: 24 - 25.2 70% Quartz-Carbonate>> Massive quartz-carbonate vein with altered wallrock clasts within.

<<Vein: 27.9 - 28.8 90% Quartz-Carbonate>> Massive quartz-carbonate vein with altered wallrock clasts within

32.75 33.75 MAFw mafic volcanic flows

32.75 - 33.75: Green, poorly foliated, fine grained, biotite-calcite porphyroblastic, chlorite-biotite-calcite schist. Basalt flow/dyke? Poorly developed foliation ~40 degrees TCA.

<<Vein: 33.52 - 33.79 100% Quartz-Carbonate 70 deg. >> Massive quartz-carbonate vein with altered wallrock clasts within

33.75 40.50 WCK Wacke - sandstone with 15-75% clay matrix

33.75 - 40.5: Intercalated black and dark green, carbonaceous mudstone, fine grained siltstone, and medium-coarse grained wacke with carbonaceous groundmass. Well developed penetrative foliation ~35 degrees TCA.

<<Struc: 40.14 - 40.14 Moderate dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

40.50 49.60 SED Undifferentiated sedimentary rock

40.5 - 49.6: Green to black, poorly sorted, matrix-supported breccia. Possibly formed from a debris flow?

<<Struc: 42.95 - 42.95 Moderate dominant foliation>>

<<Struc: 45 - 45 Orientation Lock Angle>> Lock angle between orientation marks at 45 m and 48 m.

<<Struc: 45.82 - 45.82 Moderate dominant foliation>>

49.60 55.00 MAFw mafic volcanic flows

49.6 - 55: Medium green, fine grained, weakly foliated to massive, chloritic basalt with disseminated biotite (~5%) and wispy calcite and pyrite veinlets. Penetrative foliation ~45 degrees TCA.

<<Alt: 49.6 - 67.75 Weak Calcite>>

55.00 67.75 INT undifferentiated (granitic) intrusive rocks

55 - 67.75: Light green to grey, biotite porphyroblastic, fine grained felsic groundmass, dyke. Weakly developed foliation ~60 degrees TCA.

<<Vein: 66.9 - 67 100% Calcite>> Crushed calcite vein

<<Struc: 62.8 - 67 Weak Fault>> Broken/crushed rock with minor gouge.

67.75 69.00 MAFt Undifferentiated mafic volcaniclastic

67.75 - 69: Green, fine grained mafic tuff with minor disseminated biotite.

<<Alt: 67.75 - 69 Moderate Calcite>>

69.00 71.94 INT undifferentiated (granitic) intrusive rocks

69 - 71.94: Light green to grey, biotite porphyroblastic, fine grained felsic groundmass, dyke.

<<Alt: 69 - 71.94 Weak Calcite>>

71.94 72.80 MAFt Undifferentiated mafic volcaniclastic

71.94 - 72.8: Green, fine grained mafic tuff with minor disseminated biotite and wispy to banded calcite.

<<Alt: 71.94 - 72.8 Moderate Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

72.80 84.12 INT undifferentiated (granitic) intrusive rocks

72.8 - 84.12: Light green to grey, biotite porphyroblastic, fine grained felsic groundmass, dyke. Strong oxidation with minor disseminated magnetite.

<<Alt: 72.8 - 84.12 Weak Calcite>>

<<Vein: 81.65 - 82.85 100% Quartz-Carbonate 60 deg. >> Massive quartz-carbonate vein with altered wallrock clasts within.

<<Struc: 77.75 - 77.75 Moderate dominant foliation>>

84.12 98.95 MAFt Undifferentiated mafic volcaniclastic

84.12 - 98.95: Green, fine grained, chlorite-calcite schist with disseminated biotite. Chlorite composes majority of the groundmass. Calcite is in bands.

<<Alt: 84.12 - 120 Moderate Calcite>>

<<Vein: 87.8 - 87.9 90% Quartz-Carbonate 30 deg. >> Irregular quartz-carbonate veining

<<Vein: 97.6 - 101.8 20% Quartz-Carbonate 25 deg. >> Zone with irregular quartz-carbonate veining

<<Struc: 85.3 - 85.4 Weak Fault>>

<<Struc: 86.25 - 86.3 Weak Fault>>

<<Struc: 91.2 - 91.4 Weak-Moderate Fault>>

<<Struc: 98.75 - 98.75 Moderate dominant foliation>>

98.95 105.15 MAFw mafic volcanic flows

98.95 - 105.15: Green, massive to weakly foliated, chlorite-calcite +/- disseminated biotite schist.

105.15 114.35 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

105.15 - 114.35: Black to dark green, intercalated carbonaceous-calcite schist and chloritic mafic tuff.

<<Struc: 110.4 - 110.4 Moderate dominant foliation>>

<<Struc: 113.65 - 113.65 Moderate Bedding>>

114.35 120.00 MAFt Undifferentiated mafic volcaniclastic

114.35 - 120: Green, well foliated, fine grained, chlorite-calcite, mafic tuff/schist with disseminated ankerite porphyroblasts.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Vein: 116.1 - 117.3 10% Quartz-Carbonate 40 deg. >> Zone with quartz-carbonate veining.									
		<<Struc: 115.15 - 115.35 Moderate Fault>> Gouge zone									
		<<Struc: 119.93 - 119.93 Weak dominant foliation>>									
		End of Hole @ 120									

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-440

Prospect:	Krakatoa	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Ron Voordouw
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	7/30/2017
UTM Easting	415113.1865	Core Size:	HQ3	Azimuth:	50	Date Logging Complete:	8/1/2017
UTM Northing:	6815090.013	Casing Pulled?:	Yes	Dip:	-60	Drill Company:	New Age
UTM Elev. (m):	1395.656	Casing Depth (m):	6	Length (m):	152	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/25/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	7/27/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-440 was the last of nine holes drilled for the 2017 in-pit geotechnical program, and the second within the proposed Krakatoa pit.
Drilling intersected rhyolite volcaniclastic with several 1-8 m thick layers of coherent rhyolite occurring from the top to the bottom of the hole. Three 4-6 m wide pelite layers occur in the top half of the hole along with a minor amount of intrusive rhyolite. Several intervals of fault gouge occur between 73-122 m depth.
Weak syngenetic muscovite alteration occurs near the bottom of the hole. No significant mineralization was intersected.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-60	50	0	50	PLND-LiDAR	Trent Newkirk	7/25/2017		☑	
17	-59.8	26.2	21.7	47.9	EZ-TRAC	New Age	7/25/2017	57299	☑	
25	-59.9	27.1	21.7	48.8	EZ-TRAC	New Age	7/25/2017	57249	☑	
50	-60.5	28.5	21.7	50.2	EZ-TRAC	New Age	7/25/2017	57248	☑	
75	-61.2	29.9	21.7	51.6	EZ-TRAC	New Age	7/26/2017	57342	☑	
100	-61.3	29.9	21.7	51.6	EZ-TRAC	New Age	7/26/2017	57165	☑	
125	-61.6	30.9	21.7	52.6	EZ-TRAC	New Age	7/27/2017	57119	☑	
150	-61.6	31.7	21.7	53.4	EZ-TRAC	New Age	7/27/2017	57047	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.20**	**OVBN Overburden**									
4.20	**7.60**	**RHYi Aphanitic Rhyolite (intrusion) grey VFG**									
4.2 - 7.6: Grey to tan; typical strongly silicic and aphanitic RHYi with scattered (<1%) feldspar phenocrysts; local development of crackle breccia type texture											
<<Alt: 4.2 - 7.6 Moderate-Strong Silicification>> Within RHYi, so could also be original composition?											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

7.60 10.80 RHYc Undifferentiated coherant rhyolite grey FG

7.6 - 10.8: Strongly foliated; crenulated silicic bands that are interbanded with muscovite; could also be logged as RHYvl

<<Alt: 7.6 - 10.8 Moderate Muscovite>>

<<Vein: 7.6 - 10.8 2% Quartz-Sericite/White mica 25 deg. >> Parallel to primary foliation and silica bands in RHYcw; could be more massive SI bands rather than veins

<<Struc: 7.6 - 7.61 Contact>> Parallel to S1 FOL

10.80 17.14 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts dark grey FG

10.8 - 17.14: Strongly foliated; biotite-calcite rich; upper contact with RHYc is relatively sharp; lower contact much more gradational

<<Min: 10.8 - 14.1 0.1% Min: Pyrite>>

<<Min: 14.1 - 16.84 0.5% Min: Pyrite>>

<<Min: 16.84 - 17.14 3% Min: Pyrite>> Also in vein selvage

<<Min: 16.84 - 17.14 2% Min: Pyrrhotite>>

<<Min: 16.84 - 17.14 0.5% Min: Magnetite>> Associated with sulphide blebs

<<Alt: 10.8 - 17.14 Moderate-Strong Biotite>>

<<Vein: 10.8 - 17.9 2% Calcite 45 deg. >> Strongly deformed, locally folded, calcite veins in PEL

<<Vein: 16.84 - 17.14 100% Quartz-Carbonate-Sulphide 55 deg. >> Massive quartz-rich vein with ankerite, pyrite and magnettite blebs, especially along lower contact

<<Struc: 13.93 - 13.93 Weak Foliation>>

17.14 27.42 RHYva Coarse grained to ash tuff grey FG

17.14 - 27.42: Fairly massive with 5% lapilli and 5% equant biotite porphyroblasts that appear to grow across foliation

<<Min: 17.14 - 17.9 0.1% Min: Pyrite>> Subordinate to PO

<<Min: 17.14 - 17.9 1% Min: Pyrrhotite>> Slightly elevated abundance in PEL-RHY contact zone

<<Min: 17.9 - 27.42 0.5% Min: Pyrrhotite>>

<<Alt: 17.14 - 17.9 Moderate Biotite>> Interleaved contact between PEL and RHYva with downward-decreasing intensity of BI

<<Alt: 17.14 - 27.42 Moderate-Strong Muscovite>>

<<Alt: 17.9 - 27.42 Weak-Moderate Biotite>> Regularly-distributed porphyroblasts that appear to overgrow predominant deformation fabric

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 17.9 - 27.42 2% Quartz-Carbonate 30 deg. >> Strongly deformed, folded, diffuse contacts, various orientations with best-defined veins parallel to foliation, less well-defined veins cut foliation

<<Struc: 17.14 - 17.14 Contact>> Parallel to S1 FOL

<<Struc: 23 - 23 Orientation Lock Angle>> Lock angle between 23m and 26m

<<Struc: 25.46 - 25.46 Weak Foliation>>

27.42 29.48 RHYvl Lapilli tuff grey FG

27.42 - 29.48: Includes short intervals of RHYc; notable changes in abundance of lapilli

<<Min: 27.42 - 29.48 0.5% Min: Pyrite>>

<<Min: 27.42 - 29.48 0.1% Min: Pyrrhotite>>

<<Alt: 27.42 - 29.48 Moderate Muscovite>>

<<Struc: 27.42 - 27.42 Contact>> Parallel to S1 FOL

<<Struc: 28.7 - 28.7 Moderate Foliation>>

29.48 33.99 RHYc Undifferentiated coherant rhyolite grey FG

29.48 - 33.99: Similar to pevious interval but with opposite relative unit abundance, i.e. mostly RHYc with short intervals of RHYvl

<<Alt: 29.48 - 33.99 Weak-Moderate Muscovite>>

<<Struc: 29.48 - 29.48 Contact>> Parallel to S1 FOL

<<Struc: 30.3 - 30.3 Moderate Foliation>>

<<Struc: 32 - 32 Orientation Lock Angle>> Lock angle between 32m and 35m.

<<Struc: 32.25 - 32.25 Moderate Foliation>>

33.99 35.23 RHYvl Lapilli tuff grey FG

33.99 - 35.23: Like previous RHYvl interval consists mostly of RHYvl with short intervals of RHYc

<<Alt: 33.99 - 35.23 Moderate-Strong Muscovite>>

<<Vein: 34.85 - 39.75 1% Quartz-Carbonate 25 deg. >> Scattered veins ranging from well-defined to diffuse; better-defined veins typically parallel to foliation; significantly more quartz than calcite

<<Struc: 33.99 - 33.99 Contact>> Parallel to S1 FOL

35.23 35.65 RHYi Aphanitic Rhyolite (intrusion) pink VFG

35.23 - 35.65: Distinct pinkish colour due to relict K-feldspar (?)

<<Alt: 35.23 - 35.65 Moderate-Strong Silicification>> Within RHYi, so could also be original composition?

<<Struc: 35.23 - 35.23 Contact>> Parallel to S1 FOL

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

35.65 36.97 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics) grey FG

<<Alt: 35.65 - 36.97 Weak-Moderate Muscovite>>

<<Struc: 35.86 - 35.86 Moderate Foliation>>

36.97 38.16 RHYvl Lapilli tuff grey FG

36.97 - 38.16: Sub-spherical lapilli

<<Min: 37.9 - 38.6 2% Min: Pyrite>> 1-2 mm wide PY-dominant veins

<<Alt: 36.97 - 50.45 Moderate Muscovite>>

<<Struc: 36.97 - 36.97 Contact>> Parallel to S1 FOL

38.16 43.32 RHYva Coarse grained to ash tuff grey FG

38.16 - 43.32: Fairly massive with 5% lapilli and 5% equant biotite porphyroblasts that appear to grow across foliation

<<Min: 38.6 - 44 1% Min: Pyrrhotite>>

<<Alt: 39.9 - 42.5 Weak-Moderate Biotite>> Porphyoblastic

<<Alt: 42.5 - 47.05 Weak Biotite>> Porphyoblastic

<<Struc: 40.28 - 40.28 Strong Joint (fracture)>>

<<Struc: 40.42 - 40.42 Weak Foliation>>

<<Struc: 41 - 41 Orientation Lock Angle>> Lock angle between 41m and 44m

<<Struc: 43.19 - 43.19 Weak Foliation>>

43.32 46.69 RHYvl Lapilli tuff grey FG

43.32 - 46.69: 10% equant to elongate lapilli

<<Min: 44 - 50.45 0.5% Min: Pyrrhotite>>

46.69 50.45 RHYva Coarse grained to ash tuff grey FG

46.69 - 50.45: Similar to previous RHYva with short intervals that are lapilli-bearing

<<Alt: 47.05 - 50.45 Weak-Moderate Biotite>> Porphyoblastic

<<Struc: 49.1 - 49.7 Weak Fault>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

50.45 54.45 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts black VFG

50.45 - 54.45: Relatively massive and equigranular biotite-calcite rock; contacts with adjacent rhylite are sharp to gradational, with rhyolite typically more biotite-rich near contacts with PEL

<<Min: 50.45 - 54.45 0.5% Min: Pyrite>> 1-2 mm wide PY-dominant veins

<<Alt: 50.45 - 54.45 Moderate-Strong Calcite>>

<<Alt: 50.45 - 54.45 Moderate-Strong Biotite>>

<<Struc: 50.45 - 50.45 Contact>> Parallel to S1 FOL

54.45 59.47 RHYva Coarse grained to ash tuff grey FG

<<Min: 54.45 - 55.07 1% Min: Pyrite>> Slight increase at PEL-RHY contact

<<Min: 55.52 - 59.47 0.1% Min: Pyrrhotite>>

<<Min: 57.5 - 59.47 1% Min: Pyrite>>

<<Alt: 54.45 - 55.07 Moderate Muscovite>>

<<Alt: 55.07 - 55.52 Moderate-Strong Silicification>> Could be foliation-parallel and diffusely-defined QZ-AK vein?

<<Alt: 55.07 - 55.52 Weak-Moderate Ankerite>> Could be foliation-parallel and diffusely-defined QZ-AK vein?

<<Alt: 55.52 - 56.1 Weak Calcite>>

<<Alt: 55.52 - 59.47 Strong Muscovite>>

<<Alt: 56.1 - 56.9 Moderate Calcite>> Related to increased pelitic input within RHYva

<<Alt: 56.1 - 56.9 Weak-Moderate Biotite>> Related to increased pelitic input within RHYva

<<Alt: 56.9 - 58.9 Weak Calcite>>

<<Alt: 58.9 - 59.47 Moderate Calcite>> Related to increased pelitic input within RHYva

<<Alt: 58.9 - 59.47 Weak-Moderate Biotite>> Related to increased pelitic input within RHYva

<<Vein: 55.07 - 55.52 100% Quartz-Carbonate 40 deg. >> Diffuse vein with wall rock alteration; deformed and transposed into dominant foliation

<<Vein: 56.7 - 59.47 15% Calcite 80 deg. >> Deformed, sharp to diffuse contacts; possibly a more sharply defined and more diffuse generation; minor quarts

<<Struc: 54.45 - 54.45 Contact>> Parallel to S1 FOL

<<Struc: 55.87 - 55.87 Weak Foliation>>

<<Struc: 58.6 - 58.6 Weak Foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

59.47 63.10 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts black VFG

59.47 - 63.1: Relatively massive and equigranular biotite-calcite rock; lower contact is pepperitic

<<Min: 59.47 - 63.1 0.5% Min: Pyrrhotite>>

<<Alt: 59.47 - 63.1 Moderate-Strong Calcite>>

<<Alt: 59.47 - 63.1 Moderate-Strong Biotite>>

<<Vein: 59.47 - 62.9 20% Quartz-Carbonate 30 deg. >> Diffuse, deformed, grey quartz with lesser white calcite

<<Vein: 62.9 - 63.1 100% Quartz 70 deg. >>

<<Struc: 59.47 - 59.47 Contact>> Parallel to S1 FOL

<<Struc: 61 - 61 Weak-Moderate Foliation>>

63.10 73.10 RHYvl Lapilli tuff dark grey FG

63.1 - 73.1: Massive to pepperitic; intervals of pepperite consist of 1-5 cm long PEL fragments within CA-rich ashy groundmass

<<Min: 63.1 - 68.3 0.1% Min: Pyrrhotite>>

<<Min: 68.3 - 71.8 1% Min: Pyrite>> Slightly higher sulphide within pepperitic interval

<<Min: 68.3 - 71.8 0.5% Min: Pyrrhotite>> Slightly higher sulphide within pepperitic interval

<<Min: 71.8 - 95 0.1% Min: Pyrite>>

<<Alt: 63.1 - 65.7 Moderate Muscovite>> Pepperite interval

<<Alt: 63.1 - 65.7 Moderate Calcite>> Pepperite interval

<<Alt: 63.1 - 65.7 Weak-Moderate Biotite>> Pepperite interval

<<Alt: 65.7 - 85.95 Strong Muscovite>>

<<Alt: 65.7 - 85.95 Weak Biotite>> Forms lapilli with QZ and PY

<<Struc: 64.69 - 64.69 Weak Foliation>>

<<Struc: 65.7 - 65.7 Contact>> Parallel to S1 FOL

<<Struc: 70.93 - 70.93 Weak Foliation>>

<<Struc: 71.15 - 71.25 Moderate Fault>> Penetrative gouge

73.10 73.70 FLZ Fault Zone grey

73.1 - 73.7: Heavily fractured with minor gouge

<<Struc: 73.1 - 73.7 Weak-Moderate Fault>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

73.70 79.90 RHYvl Lapilli tuff dark grey FG

73.7 - 79.9: Lapilli up to 2 cm long with dark grey quartz; feldspar crystals occur near base of the interval near transition with RHYvx

<<Struc: 74.15 - 74.3 Strong Fault>> 100% coherent gouge

<<Struc: 76.83 - 76.83 Moderate Foliation>>

79.90 83.43 RHYvl Lapilli tuff dark grey MG

79.9 - 83.43: Same lapilli tuff with 5% elongate feldspar crystals oriented parallel to foliation

<<Vein: 80.8 - 83 2% Quartz 80 deg. >> Light grey QZ, minor CA, sharp and planar to wavy contacts

83.43 93.52 RHYvl Lapilli tuff grey FG

83.43 - 93.52: BI-QZ-CL lapilli change to QZ lapilli at around 86 m depth

<<Alt: 85.95 - 93.52 Moderate-Strong Muscovite>> Slightly less intense as lapilli switch from BI-QZ (PEL fragments?) to QZ-dominant

<<Struc: 85.91 - 85.91 Weak Foliation>>

93.52 100.37 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics) grey FG

93.52 - 100.37: Contacts with adjacent RHYvl are gradational

<<Min: 95 - 95.2 6% Min: Pyrite>> Parallel to foliation, associated with quartz

<<Min: 95.2 - 100.57 0.1% Min: Pyrite>>

<<Alt: 93.52 - 129.1 Moderate Muscovite>>

<<Struc: 93.52 - 93.52 Contact>>

<<Struc: 94.06 - 94.06 Strong Joint (fracture)>>

<<Struc: 94.62 - 94.62 Moderate Foliation>>

<<Struc: 97.93 - 97.93 Weak Foliation>>

100.37 107.50 RHYvl Lapilli tuff grey FG

100.37 - 107.5: Scattered QZ bands that are similar to adjacent RHYcw unit

<<Min: 100.57 - 106.4 0.5% Min: Pyrite>> Hairline veins, vein selvages

<<Min: 106.4 - 123.5 0.1% Min: Pyrite>>

<<Vein: 100.37 - 107.2 1% Quartz 60 deg. >> Light grey QZ, minor CA, sharp and planar to wavy contacts; various orientations although discordant to S1 FOL

<<Struc: 100.37 - 100.37 Contact>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 100.68 - 100.68 Moderate Foliation>>

<<Struc: 106.51 - 106.61 Weak-Moderate Foliation>>

107.50 108.03 RHYvx Quartz and/or feldspar crystal tuff grey MG

107.5 - 108.03: 5% pinkish feldspar crystals; marginal phenocryst-poor part of RHYvx unit

<<Alt: 107.5 - 115.18 Weak Calcite>> With QZ replacing FSP crystals

<<Struc: 107.5 - 107.5 Contact>>

108.03 110.94 FLZ Fault Zone grey

108.03 - 110.94: Interval with ~50% recovery and 0% RQD; includes significant stretches of fault gouge and ~1.5 m of core loss; protolith is RHYvx

<<Struc: 108.03 - 110.94 Moderate-Strong Fault>> Well-developed gouge; indurated RHYvx protolith

110.94 115.18 RHYvx Quartz and/or feldspar crystal tuff grey MG

110.94 - 115.18: 5-20% CA-QZ altered crystals (or lapilli) within lapilli tuff

<<Vein: 111.8 - 112.7 7% Quartz 45 deg. >> Light grey QZ, minor CA, sharp and planar to wavy contacts; various orientations although discordant to S1 FOL

<<Struc: 113.3 - 114.05 Weak-Moderate Fault>> Several narrow gouge zones

115.18 120.01 RHYvl Lapilli tuff grey FG

120.01 121.60 FLZ Fault Zone grey

120.01 - 121.6: Fault breccia and gouge

<<Struc: 120.01 - 121.6 Moderate-Strong Fault>> Fault breccia and gouge

121.60 129.10 RHYvl Lapilli tuff dark grey FG

<<Min: 123.5 - 125 0.5% Min: Pyrite>> Associated with QZ-rich bands

<<Min: 125 - 128.15 0.1% Min: Pyrite>>

<<Alt: 124 - 125.47 Weak Biotite>> Related to minor PEL input into RHY

<<Vein: 125.7 - 128.15 5% Quartz 70 deg. >> Deformation includes small-scale brittle faulting

<<Vein: 128.15 - 129.1 100% Quartz>> Massive white bull QZ vein

<<Struc: 121.8 - 121.8 Weak-Moderate Foliation>>

<<Struc: 121.9 - 121.9 Weak-Moderate Joint (fracture)>>

<<Struc: 122.1 - 123.5 Weak-Moderate Fault>> Three 1-2 cm thick zones of gouge

<<Struc: 125.7 - 127.9 Weak-Moderate Fault>> Two 20-30 cm zones of heavy fracturing and minor gouge

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

129.10 132.79 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics) light grey VFG

129.1 - 132.79: White to dark grey; silica-rich with abundant MU wisps

<<Min: 129.1 - 132.79 0.1% Min: Pyrite>>

<<Alt: 129.1 - 132.79 Weak-Moderate Muscovite>> Reduced intensity due to dominance of SI

<<Vein: 129.1 - 134 7% Quartz>> Possibly more than one generation of QZ veins; ranges from very low to very high angles TCA

<<Struc: 130.31 - 130.31 Trace Foliation>>

132.79 134.65 RHYva Coarse grained to ash tuff dark grey VFG

<<Min: 132.79 - 134.65 0.5% Min: Pyrite>>

<<Alt: 132.79 - 134.65 Moderate Muscovite>>

<<Struc: 132.79 - 132.79 Contact>>

134.65 142.76 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics) grey VFG

134.65 - 142.76: Similar to previous RHYcw interval although QZ bands are mostly medium grey as opposed to white

<<Min: 134.65 - 152 0.1% Min: Pyrite>>

<<Alt: 134.65 - 142.76 Weak-Moderate Muscovite>> Reduced intensity due to dominance of SI

<<Struc: 135.78 - 136.88 Weak-Moderate Fault>> Two zones of heavy fracturing and gouge

<<Struc: 136.95 - 136.95 Weak-Moderate Foliation>>

<<Struc: 141.05 - 142.76 Weak-Moderate Fault>> 1 cm wide zone of gouge running parallel to core axis

142.76 152.00 RHYvl Lapilli tuff grey FG

<<Alt: 142.76 - 152 Moderate-Strong Muscovite>>

<<Alt: 144.3 - 152 Trace Muscovite>> 1-2 mm wide bands

<<Vein: 143.5 - 146.4 2% Quartz-Carbonate 25 deg. >> Light grey QZ, white CAL, transposed into FOL

<<Struc: 145.52 - 146.05 Weak-Moderate Fault>> Narrow zones of gouge, fracturing

<<Struc: 151.95 - 151.95 Moderate Foliation>>

End of Hole @ 152

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-441

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/9/2017
UTM Easting	415688.522	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/10/2017
UTM Northing:	6817010.513	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	New Age
UTM Elev. (m):	1444.33	Casing Depth (m):	7.05	Length (m):	40.19	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	7/29/2017
Local Northing:		Cemented?:	THM	Core Storage Loc.:	KZK Camp	Drill Completed:	7/31/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
						Parent Hole:	

Comments:

K17-441 was drilled for geotechnical and hydrogeological characteristics for the proposed overburden stockpile location.
The hole encounters intercalations of mudstone and mafic ash tuff of the Wind Lake Formation and has calcite alteration throughout.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	7/29/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**7.05**	**OVBN** **Overburden**									
7.05	**18.02**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**									

7.05 - 18.02: Laminated mudstone with high calcite content (present in bands) and varying carbonaceous content. Quartz-calcite veins present (up to 8 cm) concordant with laminations.

<<Min: 7.05 - 40.19 0.1% Min: Pyrrhotite>> Lithology hosted but commonly found in calcite bands. Minor Pyrite (~5% of sulphides)

<<Alt: 7.05 - 40.19 Weak-Moderate Calcite>> Calcite bands in mudstone units and in bands + groundmass of mafic ash tuffs.

<<Vein: 7.05 - 25.68 5% Quartz-Carbonate 75 deg. >> Quartz-calcite veins with variable quartz to calcite ratios (both extremes exist). Primarily concordant with mudstone laminations or very weak foliations of the mafic ash tuff. Few massive veins (up to 9 cm) are present.

<<Struc: 8.32 - 8.33 Moderate Foliation>> Mudstone lamination.

<<Struc: 11.24 - 11.25 Moderate Foliation>> Mudstone Lamination

<<Struc: 14.15 - 14.16 Moderate Vein>> Quartz-Calcite vein, concordant with very weak foliation of mafic ash tuff.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 15.99 - 16 Weak-Moderate Foliation>> Mudstone lamination.

18.02 19.49 MAFta Mafic coarse grained to ash tuff

18.02 - 19.49: Fine-grained mafic ash tuff with chlorite in groundmass. Equigranular throughout the unit with Biotite crystals up to 0.5 mm, as well as Calcite veining throughout the unit (up to 1.5 cm). Intercalated mudstone of 15 cm in the centre of the interval.

19.49 22.92 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

19.49 - 22.92: Laminated mudstone with high calcite content (present in bands) and varying carbonaceous content. Quartz-calcite veins present (up to 6 cm) concordant with laminations and some are minorly deformed. Upper contact is sharp while lower contact is gradational.

<<Struc: 22 - 22.01 Weak-Moderate Foliation>> Mudstone Lamination

22.92 25.92 MAFta Mafic coarse grained to ash tuff

22.92 - 25.92: Unit of fine-grained equigranular mafic ash tuff with chloritic matrix. Structures aside from calcite banding that are concordant with a very weak foliation. Upper contact is gradational with mudstone while lower contact is a 25 cm quartz-calcite-chlorite vein (93% quartz).

<<Vein: 25.68 - 26.81 50% Quarzt-Chlorite-Carbonate>> Two massive veins (both 25 cm) intercalated with 55 cm of mudstone & mafic ash tuff. Both veins are predominantly quartz with minor calcite + chlorite components (~5% each).

<<Struc: 24.99 - 25 Trace Foliation>> Mafic ash tuff foliation

25.92 26.27 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

25.92 - 26.27: Laminated mudstone, weakly deformed and low carbonaceous content.

26.27 30.00 MAFta Mafic coarse grained to ash tuff

26.27 - 30: Fine-grained mafic ash tuff with chlorite in groundmass. Equigranular throughout the unit with abundant quartz-calcite veins up to 15 cm (20% of mode).

<<Vein: 26.81 - 40.19 6% Quartz-Carbonate 65 deg. >> Quartz-calcite veins with variable quartz to calcite ratios (both extremes exist). Primarily concordant with mudstone laminations or very weak foliations of the mafic ash tuff. Few massive veins (up to 12 cm) are present.

<<Struc: 27.06 - 27.07 Moderate Foliation>> Calcite band in mafic ash tuff

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

30.00 32.05 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

30 - 32.05: Laminated mudstone with calcite bands and large irregular (discordant to lamination) quartz-calcite veins. Deformation (folding) is localized throughout the unit.

<<Struc: 32.04 - 32.05 Moderate Foliation>> Calcite band concordant to mudstone lamination

32.05 32.77 MAFta **Mafic coarse grained to ash tuff**

32.05 - 32.77: Fine-grained mafic ash tuff with chlorite in groundmass. Irregular quartz veins (up to 9 cm) are abundant. Contains 5 cm intercalation of mudstone.

32.77 40.19 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

32.77 - 40.19: Laminated mudstone, 1 mm to 3 cm quartz-calcite veins. Localized deformation causing veins to have folding. Upper contact with mafic ash tuff is heavily fractured.

<<Struc: 37.02 - 37.03 Moderate Foliation>> Calcite band concordant to mudstone lamination

<<Struc: 38.2 - 38.21 Weak Foliation>> Mudstone lamination (minorly deformed).

End of Hole @ 40.19

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-442

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/10/2017
UTM Easting	415570.2991	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/11/2017
UTM Northing:	6817625.468	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	New Age
UTM Elev. (m):	1442.522	Casing Depth (m):	3.98	Length (m):	39.98	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	8/1/2017
Local Northing:		Cemented?:	THM	Core Storage Loc.:	KZK Camp	Drill Completed:	8/3/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
Comments:						Parent Hole:	

K17-442 was drilled for geological and hydrogeological characteristics for the proposed overburden stockpile site.
The hole encounters intercalated mafic volcaniclastics and mudstone units with metamorphic alteration to calcite, muscovite, and/or silica. Sphalerite mineralization is present in a Chlorite-Biotite-Calcite rich interval at 20.8 m depth.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	8/1/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**3.98**	**OVBN** **Overburden**									
3.98	**12.82**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**									

3.98 - 12.82: Laminated mudstone with high calcareous content, occurring as bands/veins concordant to the laminations. Weak to weak-moderate deformation is present throughout the unit.

<<Min: 3.98 - 39.98 0.1% Min: Pyrite>>

<<Alt: 3.98 - 24.41 Moderate Calcite>> Bands and veins of calcite throughout all units.

<<Vein: 3.98 - 15.98 2% Quartz-Carbonate 60 deg. >> Quartz-Calcite veins concordant to mudstone laminations. Range from 1 mm to 15 mm in size. Some discordant veins are present.

<<Struc: 8.81 - 8.82 Moderate Foliation>> Mudstone lamination

<<Struc: 12.61 - 12.83 Weak Fault>> Fault at contact between mudstone and mafic unit. No gouge but heavily fractured.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

12.82 20.38 MAFt Undifferentiated mafic volcaniclastic

12.82 - 20.38: Mafic lapilli-tuff with intermixed graphitic layers. High calcareous content with abundant chlorite in groundmass. Lapilli are medium-grey clasts of calcite + chlorite. Lower contact is saw-toothed.

<<Alt: 12.83 - 14.48 Moderate-Strong Muscovite>> Gradational intensity, strong at the upper bound to patchy & moderate at the lower bound.

<<Struc: 14.48 - 17.48 Weak-Moderate Fault>> Fault zone with 20 cm gouged interval near 17 m depth.

<<Struc: 19.95 - 19.96 Moderate Foliation>> Foliation in mafic volcaniclastic.

			20.50	21.00	0.50						

20.38 25.19 MAFta Mafic coarse grained to ash tuff

20.38 - 25.19: Fine-grained medium-grey mafic ash tuff. With calcite + chlorite groundmass. Equigranular with crystals < 1 mm and contains abundant calcite. 20 cm Biotite-Chlorite-Calcite rich zone with Sphalerite at 20.75 m depth. Moderately to strongly altered to muscovite or silica from 24.43 to 25.19 m depth.

<<Min: 20.76 - 20.94 1% Min: Sphalerite>> Small band of sphalerite within zone of strong chlorite-biotite-calcite alteration

<<Alt: 20.76 - 20.94 Moderate-Strong Chlorite>> Narrow band of Chlorite with disseminated BI and minor diss SP

<<Alt: 20.76 - 20.94 Moderate Biotite>>

<<Alt: 24.41 - 24.77 Moderate-Strong Muscovite>>

<<Alt: 24.77 - 39.98 Weak-Moderate Silicification>>

<<Alt: 24.77 - 39.98 Moderate Calcite>>

<<Vein: 24.98 - 39.98 2% Quartz-Carbonate 60 deg. >> Quartz-Calcite veins concordant to mudstone laminations. Range from 1 mm to 40 mm in size. Some discordant veins are present.

<<Struc: 21.48 - 23.48 Weak-Moderate Fault>> Fault zone with abundant fractures & fragmented rock. Minor gouged zone in the centre of the fault zone.8

25.19 32.23 MAFt Undifferentiated mafic volcaniclastic

25.19 - 32.23: Mafic volcaniclastic unit with moderate calcite + silica alteration. Chlorite and calcite in groundmass and abundant calcite bands/veins. Most calcite veins are deformed and other original textures are modified from silica alteration.

<<Struc: 30.8 - 30.81 Moderate Foliation>> Foliation (calcite band) in mafic unit.

32.23 37.32 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

32.23 - 37.32: Laminated mudstone with strong calcite alteration and moderate to weak silica alteration.

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-442

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
37.32	**39.98**	**MAFt** **Undifferentiated mafic volcaniclastic**									
37.32 - 39.98: Medium-grey to pale green mafic volcaniclastic with chlorite + calcite groundmass. Intermixed graphitic (mudstone) layers and abundant calcite bands are present. Silicified.											
End of Hole @ 39.98											

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-443

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/11/2017
UTM Easting	415172.2066	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/12/2017
UTM Northing:	6817541	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	New Age
UTM Elev. (m):	1350.345	Casing Depth (m):	8.5	Length (m):	38.5	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	8/3/2017
Local Northing:		Cemented?:	SP	Core Storage Loc.:	KZK Camp	Drill Completed:	8/5/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
						Parent Hole:	

Comments:

K17-443 was drilled for geotechnical and hydrogeological characteristics for the proposed upper water management pond. The hole encounters intercalated mafic volcaniclastic and mudstones, all of which is weakly to strongly altered to calcite.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	8/3/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 8.50 OVBN Overburden

8.50 9.80 MAFt Undifferentiated mafic volcaniclastic

8.5 - 9.8: Pale green mafic volcaniclastic with chlorite and calcite in matrix. Pervasive calcite alteration throughout the interval makes original texture hard to distinguish. Quartz-Calcite veins (up to 1 cm) present concordant to a weak foliation, and the lower contact is a 7 cm quartz-calcite vein.

<<Alt: 8.5 - 28.97 Moderate Calcite>> Bands, veins, and in groundmass. Weak-Moderate to strong alteration throughout the interval and is weakest in the carbonaceous mudstone units.

<<Vein: 8.5 - 23.35 3% Quartz-Carbonate 75 deg. >> Concordant to mudstone laminations and weak foliation in mafic units. Primarily concordant however there are intervals (10-20 cm) of abundant discordant veins alongside the concordant veins. Larger veins can host sulphide (Pyrite or Pyrrhotite) mineralization. Vein abundance increases in the mudstone units.

9.80 10.67 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

9.8 - 10.67: Carbonaceous mudstone with calcite bands (up to 1 cm) & stringy quartz-calcite veins (mm scale).

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 9.8 - 10.67 3% Min: Pyrrhotite>> 1 mm to 2 cm lenses or pods hosted in veins with carbonate. Pyrite accounts for 10% of the sulphides in the interval.

10.67 11.85 MAFt Undifferentiated mafic volcaniclastic

10.67 - 11.85: Mafic volcaniclastic with chlorite + calcite in groundmass. Calcite alteration makes original textures indistinguishable.

11.85 12.80 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

11.85 - 12.8: Laminated mudstone with minor carbonaceous component and pervasive calcite alteration.

12.80 13.38 MAFt Undifferentiated mafic volcaniclastic

12.8 - 13.38: Mafic volcaniclastic with chlorite + calcite in groundmass. A few minor quartz-carbonate veins (mm scale) are concordant to the weak foliation.

13.38 15.57 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

13.38 - 15.57: Laminated mudstone, moderately carbonaceous with calcite banding (alteration) and quartz-calcite veins discordant to laminations.

<<Min: 13.54 - 28.97 0.1% Min: Pyrite>> 1 mm to 2 cm lenses or aggregates (in larger veins) hosted in veins with carbonate. Most abundant in mudstone units.

<<Struc: 15.4 - 15.52 Weak Fault>> Fault with small fragments (1 cm to <1 mm), no gouge.

15.57 16.92 MAFt Undifferentiated mafic volcaniclastic

15.57 - 16.92: Mafic volcaniclastic unit with chlorite + calcite groundmass. Irregular quartz-calcite-(pyrite) veins are abundant and account for ~20% of the mode

16.92 20.46 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

16.92 - 20.46: Mudstone, Laminated and massive with abundant calcite banding & quartz-calcite-(pyrite) veins. Intercalated chloritic (mafic volcaniclastic) unit up to 10 cm.

<<Struc: 19.46 - 19.47 Moderate Vein>> Quartz-Carbonate vein concordant to mudstone lamination.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

20.46 22.00 MAFt Undifferentiated mafic volcaniclastic

20.46 - 22: Mafic volcaniclastic with chlorite + calcite groundmass. Irregular stringy quartz-calcite veins.

22.00 28.97 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

22 - 28.97: Laminated mudstone with high calcareous content in the form of bands + veins (concordant + discordant). Massive quartz-calcite vein from 23.35 to 23.75 m depth.

<<Vein: 23.55 - 23.75 98% Quartz-Carbonate>> Massive vein in mudstone unit. 65% Quartz 35% Calcite.

<<Vein: 23.75 - 38.5 3% Quartz-Carbonate 75 deg. >> Continuation of regular-sized (2-50 mm) concordant vein set that occurs throughout the hole. Increase in abundance in the mudstone units. Stringy discordant veins also occur but account for small proportion of the veins (~5%).

28.97 38.50 MAFt Undifferentiated mafic volcaniclastic

28.97 - 38.5: Package of mafic volcaniclastic with varying texture, chlorite content, and calcite content. Calcite alteration is intense at bottom 2 meters of the interval destroying any previous textures/structures. Intervals of lapilli tuff with calcite lapilli present from ~ 31 m to 34.3 m.

<<Alt: 28.97 - 32.26 Moderate-Strong Calcite>> Calcite-dominated groundmass and in clasts/lapilli of mafic volcaniclastics.

<<Alt: 32.26 - 38.5 Strong Calcite>> Nearly 100% calcite, Original structures hard to distinguish. Quartz-calcite veins present (irregularly orientated).

End of Hole @ 38.5

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-444

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/12/2017
UTM Easting	414999.8036	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/12/2017
UTM Northing:	6818209.893	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	New Age
UTM Elev. (m):	1347.285	Casing Depth (m):	12.47	Length (m):	43.97	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	8/5/2017
Local Northing:		Cemented?:	VWP	Core Storage Loc.:	KZK Camp	Drill Completed:	8/7/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
						Parent Hole:	

Comments:

K17-444 was drilled for geotechnical and hydrogeological characteristics for the proposed upper water management pond.
The hole encounters mafic volcaniclastics of varying texture and mineralogy with an intercalation of mudstone from ~16 m to 20 m depth.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	8/5/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**12.47**	**OVBN** **Overburden**									
12.47	**15.95**	**MAFt** **Undifferentiated mafic volcaniclastic**									

12.47 - 15.95: Olive green mafic volcaniclastic with intercalated mudstone. Chlorite and calcite in groundmass with coarse biotite (up to 1.5 mm) accounting for 2% of the mode.

<<Alt: 12.47 - 43.97 Weak-Moderate Calcite>> Calcite banding present in all units throughout the hole. Intensity varies from weak to strong, whereas the weak alteration is typically found in the highly carbonaceous mudstones and highly chloritic mafic. The strong alteration is uncommon but can be found in mafic volcaniclastics.

<<Vein: 12.47 - 25.14 1% Quartz-Carbonate 70 deg. >> Quartz-Calcite veins 1 to 15 mm and concordant to mudstone laminations and weak foliations in the mafic volcaniclastics.

<<Struc: 14.85 - 15.16 Weak Fault>> Fault zone with minor gouge.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

15.95 19.88 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

15.95 - 19.88: Dark grey to black laminated mudstone with carbonaceous and micaceous laminations. No calcareous content except for quartz-calcite veins (up to 5 mm) concordant to laminations. Sharp contacts with upper & lower mafic volcaniclastics.

<<Min: 18.6 - 18.75 3% Min: Pyrite>> Discordant pyrite vein (3 mm)

<<Struc: 16.79 - 16.89 Weak Fault>> Fragmented, no gouge

<<Struc: 17 - 17.01 Weak-Moderate Foliation>> Mudstone lamination

19.88 43.97 MAFt **Undifferentiated mafic volcaniclastic**

19.88 - 43.97: Package of mafic volcaniclastics with variable textures and compositions. Invariably the package contains chlorite in groundmass, calcite in groundmass and/or in veins, as well as coarse biotite (up to 2 mm) as porphyroblasts. The biotite ranges from 1% to 40% of the mode at certain intervals. Abundant quartz-calcite veining from 1 mm to 24 cm, and massive veins also contain chlorite (massive appearance).

<<Min: 19.88 - 43.97 0.5% Min: Pyrrhotite>> Disseminated Pyrrhotite throughout lower MAFt unit. Certain intervals near 33 m depth can reach up to 3% of the mode.

<<Vein: 25.14 - 27.11 10% Quarzt-Chlorite-Carbonate>> Interval with 3 massive quartz-calcite-chlorite veins 8 to 24 cm spaced up to 1.3 m apart. Chlorite accounts for < 10% of the mode while quartz is ~60% and calcite ~30%.

<<Vein: 27.11 - 43.97 5% Quartz-Carbonate 70 deg. >> Quartz-Calcite veins concordant to weak foliations in the mafic volcaniclastics.

<<Struc: 21.05 - 21.41 Weak-Moderate Fault>> Fault zone, multiple fracture planes with gouge.

<<Struc: 26.48 - 26.6 Weak-Moderate Fault>> Fault zone with gouge.

<<Struc: 27.06 - 27.11 Weak-Moderate Fault>> Fault with gouge.

<<Struc: 28.03 - 28.9 Moderate Fault>> Fault zone with multiple gouged fault planes.

<<Struc: 30.23 - 30.27 Weak Fault>> No fault gouge.

End of Hole @ 43.97

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-445

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/13/2017
UTM Easting	414961.7972	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/14/2017
UTM Northing:	6818198.158	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	New Age
UTM Elev. (m):	1333.783	Casing Depth (m):	11.12	Length (m):	41.12	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	8/8/2017
Local Northing:		Cemented?:	VWP	Core Storage Loc.:	KZK Camp	Drill Completed:	8/11/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
						Parent Hole:	

Comments:

K17-445 was drilled for geotechnical and hydrogeological characteristics at the site of the proposed upper water management pond. The hole encounters intercalated mudstones, mafic volcaniclastics, and a chert unit from the Wind Lake Formation.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	8/8/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 11.12 OVBN Overburden

11.12 19.37 MAFt Undifferentiated mafic volcaniclastic

11.12 - 19.37: Light grey to pale green mafic volcaniclastic with intercalated mudstone. Chlorite in groundmass in pale green sections while medium grey sections are higher in calcite (banded or in groundmass). Speckled biotite ~1 mm accounts for 5% of the mode.

<<Min: 11.12 - 23.35 0.1% Min: Pyrrhotite>>

<<Alt: 11.12 - 28.54 Weak Calcite>> Calcite bands throughout all units, and in matrix of mafic units.

<<Vein: 11.12 - 22.18 3% Quartz-Carbonate 55 deg. >>

<<Struc: 15.02 - 15.43 Trace Fault>> Small fault with broken fragments

<<Struc: 15.59 - 15.6 Weak Foliation>> Foliation in mafic volcaniclastic

19.37 20.12 MDSc Carbonaceous dominant mudstone

19.37 - 20.12: Black mudstone with calcite bands and quartz-calcite veins. Upper & lower contacts with mafic units are sharp.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 19.44 - 19.45 Weak Foliation>> Graphitic lamination

20.12 23.95 MAFt Undifferentiated mafic volcaniclastic

20.12 - 23.95: Fine-grained medium grey mafic volcaniclastic. +Chlorite in groundmass and biotite crystals 1 to 2 mm accounting for 3% of the mode. Upper contact transitions to an intermixed mafic and mudstone unit.

<<Vein: 22.18 - 22.79 80% Quartz-Carbonate>> Massive quartz-calcite vein with intermixed MAFt. Pyrite + Pyrrhotite mineralization present within the vein.

<<Vein: 22.79 - 28.39 3% Quartz-Carbonate 60 deg. >> 1 mm to 2 cm in size.

23.95 28.54 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

23.95 - 28.54: Black laminated mudstone with intercalated mafic volcaniclastic. Heavily fractured at upper contact, lower contact is massive quartz vein.

<<Vein: 28.39 - 28.5 90% Quartz-Carbonate>> Massive vein near chert contact.

<<Struc: 23.95 - 24.54 Weak Fault>> Fault with minor gouge, small (< 10 mm) fragments.

<<Struc: 27.65 - 27.66 Moderate Foliation>> Mudstone lamination

28.54 30.62 CHT Chert

28.54 - 30.62: Dark grey fine-grained equigranular unit with a siliceous groundmass. Very competent and unfoliated. Irregular quartz-calcite veins 1 to 50 mm present throughout.

<<Vein: 28.54 - 30.62 5% Quartz-Carbonate>> Discordant veins in chert unit. Larger than quartz-calcite veins found in mafic and mudstone units. From 1 mm to 6 cm.

30.62 31.92 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

30.62 - 31.92: Black to dark grey laminated mudstone. Abundant quartz-calcite veins irregular but concordant with laminations. 7 cm interval of the chert at 31.31 m depth in which the contact with the mudstone is sharp, and the mudstone adjacent to the contact is highly graphitic & very low in quartz-calcite.

<<Alt: 30.62 - 32.75 Weak Calcite>> Calcite bands in mudstone, banded & in groundmass of mafic units.

<<Vein: 30.62 - 32.75 5% Quartz-Carbonate 60 deg. >>

31.92 32.75 MAFt Undifferentiated mafic volcaniclastic

31.92 - 32.75: Pale green mafic volcaniclastic. Chlorite in matrix with 1 mm calcite and biotite crystals. Quartz-calcite veins concordant with a weak foliation.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 32.03 - 32.04 Moderate Foliation>> QC Vein concordant to foliation in mafic volcaniclastic.

32.75 39.88 MDSc Carbonaceous dominant mudstone

32.75 - 39.88: Laminated carbonaceous mudstone with siliceous clasts elongated & concordant with laminations. Very weakly calcareous.

<<Min: 32.75 - 41.12 1% Min: Pyrrhotite>>

<<Vein: 32.75 - 39.88 1% Quartz 45 deg. >>

39.88 41.12 MAFt Undifferentiated mafic volcaniclastic

39.88 - 41.12: Pale green to medium grey mafic volcaniclastic with a weak-moderate foliation. Pale green sections are chlorite-dominated (groundmass) while medium grey sections are calcite-dominated (banded). Speckled biotite 1 mm accounts for 2% of the mode.

<<Alt: 39.88 - 41.12 Weak-Moderate Calcite>> Bands & groundmass. Calcite alteration intensity increases in the bottom 75 cm of the hole and some bands are deformed.

<<Vein: 39.88 - 41.12 5% Quartz-Carbonate 60 deg. >>

<<Struc: 40.21 - 40.22 Weak Foliation>> Foliation (calcite) in mafic volcaniclastic.

End of Hole @ 41.12

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-446

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	8/14/2017
UTM Easting	414866.8398	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	8/14/2017
UTM Northing:	6818175.555	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	New Age
UTM Elev. (m):	1345.231	Casing Depth (m):	9.66	Length (m):	39.66	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title	KZK	Drill Started:	8/11/2017
Local Northing:		Cemented?:	THM	Core Storage Loc.:	KZK Camp	Drill Completed:	8/13/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Hydro
						Parent Hole:	

Comments:

K17-446 was drilled to test the geotechnical and hydrogeological characteristics at the site of the proposed upper water management pond. The hole encounters intercalated mudstones and mafic volcaniclastics from the Wind Lake Formation.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0	0	0	PLND-LiDAR	Knight Piésold	8/11/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 9.66 OVBN Overburden

9.66 11.92 MAFt Undifferentiated mafic volcaniclastic

9.66 - 11.92: Medium grey to pale green mafic volcaniclastic. Speckled biotite crystals 1 mm accounts for 5% of the mode (low abundance and high abundance sections are present).

<<Min: 9.66 - 15.83 0.1% Min: Pyrrhotite>>

<<Alt: 9.66 - 39.66 Weak Calcite>> Calcite in groundmass, quartz-veins, and dominantly in bands that are present in all units. Intensity varies from very weak to moderate. In general the mudstones have less calcite alteration than the mafic volcaniclastics.

<<Vein: 9.66 - 39.66 4% Quartz-Carbonate 70 deg. >> Concordant with laminations in mudstone units and foliations in mafic volcaniclastics. 1 mm to 6 cm in size.

11.92 14.16 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

11.92 - 14.16: Laminated mudstone with graphitic layers and intercalated mafic volcaniclastics. Mafic intercalations are pale green (chlorite groundmass) and contain 1 mm biotite crystals.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

14.16 15.83 MAFt Undifferentiated mafic volcaniclastic

14.16 - 15.83: Pale green mafic volcaniclastic with 1 mm biotite crystals. Upper & lower contacts with mudstones are gradational.

15.83 24.17 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

15.83 - 24.17: Dark grey to black mudstone with intercalated mafic volcaniclastic layers. Graphitic laminations are present but minor relative to laminations in most of the MDS in the Wind Lake Formation. Mafic layers are pale green (chlorite groundmass) with speckled biotite. Pyrrhotite is abundant from ~18 m depth to the bottom of the interval.

<<Min: 15.83 - 27.94 3% Min: Pyrrhotite>> Interval of abundant Pyrrhotite in mudstone. In certain sections the mode can reach up to 7%.

<<Struc: 16 - 16.01 Moderate Foliation>> Mudstone lamination

<<Struc: 24 - 24.01 Moderate Foliation>> Mudstone lamination.

24.17 26.58 MAFt Undifferentiated mafic volcaniclastic

24.17 - 26.58: Medium-grey to pale green mafic volcaniclastic. Chlorite in groundmass with speckled biotite crystals ~1 mm. Elongated clasts of Calcite concordant with the foliation are present at 25.05 m depth and vary in size.

<<Struc: 25.81 - 26.58 Weak Fault>> Re-worked fault (lithified breccia present) with gouge and small fragments.

26.58 27.94 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

26.58 - 27.94: Dark grey to black mudstone with minor graphitic laminations and intercalated mafic volcaniclastics (chloritic layers).

<<Struc: 26.95 - 26.96 Moderate Foliation>> Quartz-calcite vein concordant to mafic volcaniclastic foliation.

27.94 39.66 MAFt Undifferentiated mafic volcaniclastic

27.94 - 39.66: Medium grey to pale green mafic volcaniclastics. Chlorite in groundmass varies as indicated by the rock colour (green indicates chlorite). Highly calcareous in certain sections in groundmass, bands, and/or quartz-calcite veins. Weak to moderate foliation with concordant quartz-calcite veins.

<<Min: 27.94 - 39.66 0.1% Min: Pyrrhotite>>

<<Alt: 38.55 - 38.59 Weak Chlorite>> Chlorite in quartz-calcite vein with coarse biotite envelope.

<<Struc: 28.96 - 29.13 Trace Fault>> Fault with multiple gouged planes.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Struc: 31.72 - 31.89 Trace Fault>> Fault with multiple gouged planes.											
<<Struc: 32.66 - 32.95 Trace Fault>> Fault with multiple gouged planes.											
<<Struc: 35.02 - 35.03 Moderate Foliation>> Calcite band concordant to mafic volcaniclastic foliation.											
End of Hole @ 39.66											

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-447

Prospect:	Infrastructure	Hole Type:	DD	Survey Type:	PLND-LiDAR	Logged By:	Dillon Hume
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Dillon Hume	Date Logging Start:	8/16/2017
UTM Easting	415055	Core Size:	HQ3	Azimuth:	171.94	Date Logging Complete:	8/29/2017
UTM Northing:	6816226	Casing Pulled?:	No	Dip:	-84.33	Drill Company:	New Age
UTM Elev. (m):	1380	Casing Depth (m):	12	Length (m):	452	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	8/14/2017
Local Northing:		Cemented?:	No	Core Storage Loc.:	KZK Camp	Drill Completed:	8/25/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Exploration
						Parent Hole:	

Comments:

K17-447 was drilled as a condemnation/exploration drill hole below the pit rim pond. The casing was left in and the hole was lined with PVC pipe for a DHEM survey.
Intercalated mudstones and mafic tuffs of the Wind Lake Formation occur from 10.1 (below overburden) to 130.83 m. Within this formation a small zone of semi-massive pyrrhotite + chalcopyrite occurs from 50.12 to 51.29 m, which lies at a similar horizon as weak alteration in hole K15-333. K17-447 also lies on the edge of a VTEM high.
Below the Wind Lake Formation a package of intercalated quartz +/- feldspar crystal tuffs and mudstones occurs to 234.58 m. Below this a mudstone dominated package with minor intercalated conglomerates and intermediate to felsic tuffs occurs to a depth of 311.01 m. From 311.01 to 368.89 m felsic dominated volcanics occur. The lowest package within K17-447 (368.89 to 452 m) is composed of intercalated mudstones, conglomerates, and mafic tuffs, similar to the Wind Lake Formation.
A narrow muscovite alteration zone associated with blebby pyrrhotite + chalcopyrite occurs from 421.85 to 422.29 m.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-84.33	171.94	1.4	173.34	EZ-Gyro	New Age	8/25/2017		☑	Optimised
0.1	-85	177	0	177	Compass	Dillon Hume	8/14/2017		☐	
10.5	-84.11	171.68	1.4	173.08	EZ-Gyro	New Age	8/25/2017		☑	Optimised
25	-84.6	148.2	21.7	169.9	EZ-TRAC	New Age	8/15/2017	57697	☐	
25.5	-84.04	171.68	1.4	173.08	EZ-Gyro	New Age	8/25/2017		☑	Optimised
40.5	-83.79	173.52	1.4	174.92	EZ-Gyro	New Age	8/25/2017		☑	Optimised
50	-84	158.6	21.7	180.3	EZ-TRAC	New Age	8/15/2017	60967	☐	
55.5	-83.53	173.32	1.4	174.72	EZ-Gyro	New Age	8/25/2017		☑	Optimised
70.5	-83.12	175.96	1.4	177.36	EZ-Gyro	New Age	8/25/2017		☑	Optimised
75	-83.5	153.6	21.7	175.3	EZ-TRAC	New Age	8/15/2017	57726	☐	
85.5	-82.68	175.53	1.4	176.93	EZ-Gyro	New Age	8/25/2017		☑	Optimised
100	-82.7	154.8	21.7	176.5	EZ-TRAC	New Age	8/16/2017	56496	☐	
100.5	-82.1	175.97	1.4	177.37	EZ-Gyro	New Age	8/25/2017		☑	Optimised
115.5	-82.08	176.96	1.4	178.36	EZ-Gyro	New Age	8/25/2017		☑	Optimised
125	-82.4	157.6	21.7	179.3	EZ-TRAC	New Age	8/16/2017	57901	☐	
130.5	-81.66	175.85	1.4	177.25	EZ-Gyro	New Age	8/25/2017		☑	Optimised
145.5	-81.28	176.98	1.4	178.38	EZ-Gyro	New Age	8/25/2017		☑	Optimised

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-447

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
150	-81.6	154.2	21.7	175.9	EZ-TRAC	New Age	8/17/2017	57730	☐	
160.5	-80.51	177.16	1.4	178.56	EZ-Gyro	New Age	8/25/2017		☑	Optimised
175	-80.8	157.6	21.7	179.3	EZ-TRAC	New Age	8/17/2017	58084	☐	
175.5	-80.33	176.34	1.4	177.74	EZ-Gyro	New Age	8/25/2017		☑	Optimised
190.5	-80.27	175.32	1.4	176.72	EZ-Gyro	New Age	8/25/2017		☑	Optimised
200	-80.4	154.4	21.7	176.1	EZ-TRAC	New Age	8/18/2017	57964	☐	
205.5	-80.06	174.83	1.4	176.23	EZ-Gyro	New Age	8/25/2017		☑	Optimised
220.5	-79.88	175.2	1.4	176.6	EZ-Gyro	New Age	8/25/2017		☑	Optimised
224	-80.2	55.3	21.7	77	EZ-TRAC	New Age	8/18/2017	57481	☐	
235.5	-79.8	176.69	1.4	178.09	EZ-Gyro	New Age	8/26/2017		☑	Optimised
250	-80.1	156.2	21.7	177.9	EZ-TRAC	New Age	8/19/2017	57353	☐	
250.5	-79.75	177.19	1.4	178.59	EZ-Gyro	New Age	8/26/2017		☑	Optimised
265.5	-79.62	178.11	1.4	179.51	EZ-Gyro	New Age	8/26/2017		☑	Optimised
275	-79.8	158.3	21.7	180	EZ-TRAC	New Age	8/19/2017	58139	☐	
280.5	-79.5	178.82	1.4	180.22	EZ-Gyro	New Age	8/26/2017		☑	Optimised
295.5	-79.39	180.16	1.4	181.56	EZ-Gyro	New Age	8/26/2017		☑	Optimised
302	-79.6	180.4	21.7	202.1	EZ-TRAC	New Age	8/19/2017	24953	☐	
310.5	-79.14	179.86	1.4	181.26	EZ-Gyro	New Age	8/26/2017		☑	Optimised
321.5	-79.1	181.78	1.4	183.18	EZ-Gyro	New Age	###########		☑	Optimised
325	-79.8	159.5	21.7	181.2	EZ-TRAC	New Age	8/20/2017	58320	☐	
325.5	-78.93	181.18	1.4	182.58	EZ-Gyro	New Age	8/26/2017		☑	Optimised
327.5	-78.96	181.18	1.4	182.58	EZ-Gyro	New Age	8/21/2017		☑	Optimised
330.5	-78.84	181.48	1.4	182.88	EZ-Gyro	New Age	8/21/2017		☑	Standard
333.5	-78.81	182.16	1.4	183.56	EZ-Gyro	New Age	8/21/2017		☑	Standard
336.5	-78.83	180.38	1.4	181.78	EZ-Gyro	New Age	8/21/2017		☑	Standard
339.5	-78.77	181.45	1.4	182.85	EZ-Gyro	New Age	8/21/2017		☑	Standard
342.5	-78.73	181.35	1.4	182.75	EZ-Gyro	New Age	8/21/2017		☑	Standard
345.5	-78.69	181.85	1.4	183.25	EZ-Gyro	New Age	8/21/2017		☑	Standard
348.5	-78.62	182.22	1.4	183.62	EZ-Gyro	New Age	8/21/2017		☑	Standard
350	-79	162.6	21.7	184.3	EZ-TRAC	New Age	8/20/2017	57598	☐	
351.5	-78.53	182.77	1.4	184.17	EZ-Gyro	New Age	8/21/2017		☑	Standard
357.5	-79.79	176.22	1.4	177.62	EZ-Gyro	New Age	8/21/2017		☑	Optimised
363.5	-78.32	181.8	1.4	183.2	EZ-Gyro	New Age	8/21/2017		☑	Standard
369.5	-78.28	183.59	1.4	184.99	EZ-Gyro	New Age	8/22/2017		☑	Standard

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
372.5	-78.19	182.59	1.4	183.99	EZ-Gyro	New Age	8/22/2017		☑	Optimised
374	-78.5	164.3	21.7	186	EZ-TRAC	New Age	8/21/2017	57469	☐	
391.5	-78.13	183.64	1.4	185.04	EZ-Gyro	New Age	8/24/2017		☑	Optimised
398	-78.4	167.2	21.7	188.9	EZ-TRAC	New Age	8/23/2017	59009	☐	
399.5	-78.04	183.95	1.4	185.35	EZ-Gyro	New Age	8/24/2017		☑	Optimised
414.5	-77.78	185.6	1.4	187	EZ-Gyro	New Age	8/24/2017		☑	Optimised
422	-78.1	164.7	21.7	186.4	EZ-TRAC	New Age	8/25/2017	58563	☐	
429.5	-77.79	185.66	1.4	187.06	EZ-Gyro	New Age	8/25/2017		☑	Optimised
444.5	-77.61	185.95	1.4	187.35	EZ-Gyro	New Age	8/25/2017		☑	Optimised
446	-78	167.1	21.7	188.8	EZ-TRAC	New Age	8/25/2017	57845	☐	

From (m)	To (m)	Rocktype & Description
0.00	**10.10**	**OVBN** **Overburden**
10.10	**16.80**	**MDSc** **Carbonaceous dominant mudstone**

10.1 - 16.8: Intercalated, black carbonaceous mudstone and light green mafic ash tuff. MAFt units locally have disseminated BI porphyroblasts. Individual layers vary from millimeters to tens of centimeters thick.

<<Min: 10.1 - 21 1% Min: Pyrrhotite>>

<<Alt: 10.1 - 50.12 Weak-Moderate Calcite>>

<<Vein: 10.1 - 73.5 3% Quartz-Carbonate 70 deg. >> Spaced irregular calcite +/- quartz veins and vienlets

From (m)	To (m)	Rocktype & Description
16.80	**50.12**	**MAFt** **Undifferentiated mafic volcaniclastic**

16.8 - 50.12: Medium green, chlorite-biotite-calcite schist. Biotite occurs as disseminated porphyroblasts throughout with zones of stronger intensity, including near the lower contact with semi-massive sulfides. Chlorite occurs as a fine grained groundmass throughout. Calcite occurs mainly as bands and patches throughout. Local laminations with intercalated fine grained ash tuff and BI-rich tuff occurs. From 26.8-39.2 m patches of bleaching (clay-sericite?) occur, which are spatially related to narrow quartz-carbonate veins and fracture zones.

<<Min: 21 - 22.8 1% Min: Sphalerite>>

<<Min: 21 - 22.8 3% Min: Pyrrhotite>>

<<Min: 21 - 22.8 1% Min: Galena>>

<<Min: 22.8 - 50.12 1% Min: Pyrrhotite>>

<<Alt: 26.8 - 39.2 Weak-Moderate Muscovite>> Local zones of intense QSP alteration around veining and fracture networks. Away from these zones the BI-porphyroblasts are selectively replaced. Gives a bleached appearance.

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
48.62	50.12	1.50	D00004579	-0.005	-0.3	-0.01	-0.01	0.04

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 46.75 - 48.9 Strong Biotite>> Biotite alteration around mineralized zone?? All of the MAFt above has disseminated BI-porphyroblasts, but the intensity appears higher here.									
		<<Alt: 48.9 - 50.12 Moderate Chlorite>> Massive chlorite, hard to tell the difference between unaltered MAFt and altered (?) MAFt.									
		<<Alt: 48.9 - 50.12 Moderate Biotite>> Disseminated biotite in MAFt.									
		<<Struc: 28 - 32 Weak Fault>> Zone of moderate fracturing associated with QSP alteration									
		<<Struc: 38.7 - 39 Weak Fault>> Zone of moderate fracturing associated with QSP alteration									
50.12	**51.29 OC**	**Chalcopyrite-pyrrhotite net textured sulphides** 50.12 - 51.29: Semi-massive pyrrhotite with disseminated to blebby chalcopyrite. The groundmass contains abundant patches of calcite and chlorite-biotite altered wall rock. <<Min: 50.12 - 51.29 50% Min: Pyrrhotite>> <<Min: 50.12 - 51.29 2% Min: Chalcopyrite>> <<Alt: 50.12 - 51.29 Weak Chlorite>> Patches of chlorite with disseminated biotite in semi-massive sulphide. <<Alt: 50.12 - 51.29 Strong Calcite>> Patchy calcite in semi-massive sulphide. <<Alt: 50.12 - 51.29 Weak Biotite>> Patches of chlorite with disseminated biotite in semi-massive sulphide.	50.12	51.29	1.17	D00004581	0.013	4.3	0.24	0.02	0.3
51.29	**67.94 MAFt**	**Undifferentiated mafic volcaniclastic** 51.29 - 67.94: Medium green, well foliated, fine grained, chlorite-biotite-calcite schist/mafic tuff. Patchy PO occurs throughout. <<Min: 51.29 - 98.8 1% Min: Pyrrhotite>> <<Alt: 51.29 - 130.83 Moderate Calcite>> <<Struc: 58.6 - 58.6 Moderate dominant foliation>> <<Struc: 63.36 - 63.36 Moderate dominant foliation>> <<Struc: 67.34 - 67.34 Weak dominant foliation>>	51.29	52.79	1.50	D00004582	-0.005	0.4	0.02	-0.01	0.04
67.94	**78.47 MAFt**	**Undifferentiated mafic volcaniclastic** 67.94 - 78.47: Medium green, moderately foliated, chlorite-biotite-calcite schist, with medium grained BI-porphyroblasts throughout. Local bleaching of biotite to clay-sericite (?) from 73.5-76.45 m, associated with quartz-carbonate veining. <<Alt: 73.5 - 76.45 Moderate Muscovite>> Slightly bleached MAFt with biotite selectively replaced to sericite. <<Vein: 73.5 - 78.47 10% Quartz-Carbonate 80 deg. >> Zone with massive QZ-carbonate and carbonate veins.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

78.47 98.80 MAFt Undifferentiated mafic volcaniclastic

78.47 - 98.8: Medium green, well foliated, chlorite-biotite-calcite schist, with local calcareous lapilli and moderately defined laminations/layering. Patchy PO occurs throughout.

<<Vein: 92.85 - 116.4 5% Quartz-Carbonate 65 deg. >> Zone with veins to massive veins of quartz-carbonate

<<Struc: 79.95 - 79.95 Weak-Moderate dominant foliation>>

<<Struc: 83 - 83 Orientation Lock Angle>> Lock angle between orientation marks at 83 m and 86 m.

<<Struc: 86.32 - 86.32 Moderate dominant foliation>>

<<Struc: 87.83 - 87.83 Moderate dominant foliation>>

<<Struc: 89 - 89 Orientation Lock Angle>> Lock angle between orientation marks at 89 m and 92 m.

<<Struc: 91.46 - 91.46 Weak-Moderate dominant foliation>>

98.80 118.40 MDSc Carbonaceous dominant mudstone

98.8 - 118.4: Black, well laminated, carbonaceous mudstone with bands/veinlets of calcite throughout. Local patchy PY+PO occurs. Moderate amount of faulting throughout.

<<Min: 98.8 - 130.83 2% Min: Pyrrhotite>>

<<Struc: 105.4 - 106.7 Moderate Fault>>

<<Struc: 108.45 - 110 Moderate Fault>>

<<Struc: 114.3 - 118 Weak-Moderate Fault>>

118.40 119.67 MAFt Undifferentiated mafic volcaniclastic

118.4 - 119.67: Medium-olive green, fine grained, chlorite-calcite schist/mafic tuff.

119.67 121.40 MDSc Carbonaceous dominant mudstone

119.67 - 121.4: Black, carbonaceous mudstone to fine sandstone.

<<Struc: 120.2 - 120.7 Moderate Fault>>

121.40 122.60 MAFt Undifferentiated mafic volcaniclastic

121.4 - 122.6: Medium-olive green, fine grained, chlorite-calcite schist/mafic tuff.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

122.60 130.83 MDSc Carbonaceous dominant mudstone

122.6 - 130.83: Black, laminated, carbonaceous mudstone with calcite veinlets and patchy PY+PO. Green, fine grained, mafic tuffs occur from 123.88-124.06 m and 134.38-124.58 m. Lower contact has strong quartz-carbonate veining with RHYvx of the KZK formation in the footwall.

<<Vein: 130.7 - 132 20% Quartz-Carbonate 75 deg. >> Massive quartz-carbonate veining along Wind Lake-KZK contact

<<Struc: 127.81 - 127.81 Strong dominant foliation>>

<<Struc: 130.32 - 130.32 Moderate dominant foliation>>

130.83 140.83 RHYvx Quartz and/or feldspar crystal tuff

130.83 - 140.83: Medium-dark grey, quartz-feldspar crystal tuff/wacke. Quartz occurs as fine to medium grained round blue crystals (~15%). Feldspar occurs as white, fine to medium grained subhedral crystals (~20%). Fine grained quartz-muscovite-rich groundmass Local clasts of carbonaceous mudstone occur. Local bands of crystal deficient ash tuff (~5-10 cm thick) occur. The lower contact is gradational into a feldspar-poor/quartz-rich crystal tuff.

<<Min: 130.83 - 149 0.5% Min: Pyrrhotite>>

<<Alt: 130.83 - 140.83 Weak-Moderate Calcite>>

<<Vein: 137.58 - 137.64 100% Quartz-Carbonate 45 deg. >> Quartz vein in a fault zone

<<Struc: 133.69 - 133.69 Weak-Moderate dominant foliation>>

<<Struc: 136.67 - 136.67 Weak-Moderate dominant foliation>>

<<Struc: 137.55 - 137.7 Moderate Fault>>

<<Struc: 139.75 - 139.75 Weak dominant foliation>>

140.83 147.25 RHYvx Quartz and/or feldspar crystal tuff

140.83 - 147.25: Light yellowish-grey, blue round quartz phyric crystal tuff. Gradational with feldspar-rich unit above. Weak MU-alteration of the groundmass. Lower contact is faulted with RHYc.

<<Alt: 140.83 - 149 Weak Muscovite>> Yellowish Mu-alteration?

<<Alt: 140.83 - 153.57 Weak Calcite>>

<<Struc: 141.9 - 142.7 Strong Fault>>

147.25 149.00 RHYc Undifferentiated coherant rhyolite

147.25 - 149: Silicic banded rhyolite with weak yellowish MU altered cleavages. Upper contact is faulted. Lower contact is sharp with MDSc.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 147.25 - 149 1% Min: Galena>>

<<Struc: 147.25 - 147.8 Strong Fault>>

<<Struc: 148.04 - 148.04 Moderate dominant foliation>>

149.00 153.37 MDSc Carbonaceous dominant mudstone

149 - 153.37: Intercalated MDSc, RHYvx/sandstone, and siltstone.

<<Min: 149 - 153.57 2% Min: Pyrrhotite>>

<<Struc: 153.25 - 154.4 Weak Fault>>

153.37 156.74 RHYvx Quartz and/or feldspar crystal tuff

153.37 - 156.74: Light grey, qz - fd phyric crystal tuff. Feldspar are white and subhedral. Quartz are blue and rounded. Groundmass is fine grained qz-mu ash (?).

<<Min: 153.57 - 168.11 0.5% Min: Pyrrhotite>>

<<Alt: 153.57 - 168.11 Weak-Moderate Calcite>>

156.74 158.84 MAFt Undifferentiated mafic volcaniclastic

156.74 - 158.84: Green, fine grained, chlorite-biotite-calcite schist. Blue quartz-eyes occur in the lower portion of the unit.

<<Struc: 157.51 - 157.51 Moderate dominant foliation>>

158.84 168.11 RHYvx Quartz and/or feldspar crystal tuff

158.84 - 168.11: Light grey, qz-fd phyric crystal tuff. Feldspar are white and subhedral. Quartz are blue and rounded. Groundmass is fine grained qz-mu ash (?).

<<Struc: 160.1 - 160.1 Orientation Lock Angle>> Lock angle between orientation marks at 160.1 m and 161 m.

<<Struc: 160.8 - 160.8 Weak-Moderate dominant foliation>>

<<Struc: 166.85 - 166.85 Weak-Moderate dominant foliation>>

168.11 173.58 MDSc Carbonaceous dominant mudstone

168.11 - 173.58: Black, carbonaceous mudstone

<<Min: 168.11 - 183.45 2% Min: Pyrite>>

<<Min: 168.11 - 183.45 2% Min: Pyrrhotite>>

<<Alt: 168.11 - 183.45 Weak Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 170.5 - 171.85 Moderate Fault>>

173.58 174.10 RHYv Undifferentiated Rhyolite volcaniclastic

173.58 - 174.1: Medium grey-beige, fine grained, Quartz-sericite-pyrite-calcite schist. QSP-altered RHYv?

174.10 176.00 MDSc Carbonaceous dominant mudstone

174.1 - 176: Black, carbonaceous mudstone.

176.00 177.40 MAFt Undifferentiated mafic volcaniclastic

176 - 177.4: Light grey-green, fine grained, chlorite-muscovite-calcite schist. Local vuggy texture. Faulted lower contact.

177.40 181.70 MDSc Carbonaceous dominant mudstone

177.4 - 181.7: Black, carbonaceous mudstone

<<Struc: 177.4 - 179 Moderate Fault>> Poor recovery within this zone

<<Struc: 179.2 - 181 Weak Fault>>

<<Struc: 181.2 - 181.2 Moderate dominant foliation>>

181.70 181.98 RHYvx Quartz and/or feldspar crystal tuff

181.7 - 181.98: QZ-FD phyric rhyolite tuff with disseminated PY

181.98 183.45 MDSc Carbonaceous dominant mudstone

181.98 - 183.45: Black carbonaceous mudstone. Moderate-strongly faulted.

<<Struc: 182.7 - 183.3 Weak-Moderate Fault>>

183.45 190.53 RHYvl Lapilli tuff

183.45 - 190.53: Medium grey, felsic lapilli tuff. Lower portion of the zone shows folding with open fold hinges.

<<Min: 183.45 - 234.58 0.5% Min: Pyrrhotite>>

<<Alt: 183.45 - 234.58 Weak-Moderate Calcite>>

<<Vein: 187.5 - 194 5% Quartz-Carbonate 40 deg. >> Zone with irregular quartz-carbonate veins, varying from 1-30 cm wide.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 184.35 - 184.35 Moderate dominant foliation>>

<<Struc: 186.35 - 186.8 Moderate Fault>>

<<Struc: 189.5 - 189.5 Weak dominant foliation>> Up hole from a fold hinge

<<Struc: 190.03 - 190.03 Moderate dominant foliation>> Down hole of a fold hinge

190.53 194.10 MAFt Undifferentiated mafic volcaniclastic

190.53 - 194.1: Medium green, chlorite-biotite-muscovite-quartz schist. Intermediate tuff?

<<Struc: 191 - 191 Orientation Lock Angle>> Lock angle between orientation marks at 191 m and 191.27 m.

<<Struc: 194 - 194 Orientation Lock Angle>> Lock angle between orientation marks at 194 m and 197 m.

194.10 194.64 MDSc Carbonaceous dominant mudstone

194.1 - 194.64: Black, siliceous and carbonaceous mudstone.

194.64 200.08 MAFt Undifferentiated mafic volcaniclastic

194.64 - 200.08: Medium green, chlorite-biotite-muscovite-quartz schist. Intermediate tuff?

<<Struc: 194.81 - 194.81 Moderate dominant foliation>>

<<Struc: 197 - 197 Orientation Lock Angle>> Lock angle between orientation marks at 197 m and 200 m.

<<Struc: 200 - 200 Orientation Lock Angle>> Lock angle between orientation marks at 200 m and 203 m.

200.08 200.68 RHYc Undifferentiated coherant rhyolite

200.08 - 200.68: Dark grey, silicic banded with carbonaceous cleavage. RHYc or chert?

200.68 208.13 RHYvx Quartz and/or feldspar crystal tuff

200.68 - 208.13: Medium grey-green, chlorite-biotite-quartz-muscovite schist. With disseminated blue quartz phenocrysts. Intermediate tuff?

<<Vein: 203 - 205.5 3% Quartz-Carbonate 75 deg. >> Zone with minor quartz-carbonate veining

<<Vein: 207.75 - 208.3 10% Quartz-Carbonate 70 deg. >> Zone with minor quartz-carbonate veining. Chloritic alteration around veins.

<<Struc: 200.85 - 200.85 Weak-Moderate dominant foliation>>

<<Struc: 203 - 203 Orientation Lock Angle>> Lock angle between orientation marks at 203 m and 206 m.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

208.13 208.51 RHYvx Quartz and/or feldspar crystal tuff

208.13 - 208.51: Light grey, quartz phenocryst rich ash tuff. Quartz are medium to coarse sand-sized.

208.51 211.29 RHYva Coarse grained to ash tuff

208.51 - 211.29: Light grey, fine grained, ash tuff.

<<Struc: 209 - 209 Orientation Lock Angle>> Lock angle between orientation marks at 209 m and 212 m.

<<Struc: 210.33 - 210.33 Weak-Moderate dominant foliation>>

211.29 219.38 RHYvx Quartz and/or feldspar crystal tuff

211.29 - 219.38: Light grey, quartz-phenocryst rich ash tuff. Disseminated to patchy biotite throughout.

<<Struc: 212 - 212 Orientation Lock Angle>> Lock angle between orientation marks at 212 m and 215 m.

<<Struc: 215 - 215 Orientation Lock Angle>> Lock angle between orientation marks at 215 m and 218 m.

<<Struc: 215.76 - 215.76 Weak dominant foliation>>

219.38 220.57 RHYc Undifferentiated coherant rhyolite

219.38 - 220.57: Light-grey, silicic banded rhyolite with muscovite cleavages.

<<Struc: 220.22 - 220.22 Moderate dominant foliation>>

220.57 223.31 RHYva Coarse grained to ash tuff

220.57 - 223.31: Medium grey, fine grained ash tuff. Muscovite-chlorite-biotite-quartz schist. Intermediate tuff?

223.31 227.53 RHYvx Quartz and/or feldspar crystal tuff

223.31 - 227.53: Light grey, quartz-phenocryst rich ash tuff with local bands of coarse clastics in a fine grained chloritic groundmass. Bands of coarse clasts may represent a higher-energy sedimentary deposit between the ongoing tuffaceous depositional environment?

<<Struc: 225.85 - 225.85 Weak dominant foliation>>

<<Struc: 227 - 227 Orientation Lock Angle>> Lock angle between orientation marks at 227 m and 230 m.

227.53 231.17 RHYva Coarse grained to ash tuff

227.53 - 231.17: Light grey-cream to greenish, fine grained ash tuff? Variable from muscovite-quartz rich to chlorite-biotite rich. Local sericite-pyrite alteration?

<<Struc: 230 - 230 Orientation Lock Angle>> Lock angle between orientation marks at 230 m and 233 m.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 230.32 - 230.32 Moderate dominant foliation>>

231.17 234.58 RHYvx Quartz and/or feldspar crystal tuff

231.17 - 234.58: Light to medium grey, quartz phenocryst rich ash tuff.

<<Struc: 233 - 233 Orientation Lock Angle>> Lock angle between orientation marks at 233 m and 236 m.

<<Struc: 233.45 - 233.45 Weak dominant foliation>>

234.58 243.66 MDSc Carbonaceous dominant mudstone

234.58 - 243.66: Black, carbonaceous mudstone. Moderately hard. Siliceous blebs and irregular to ptygmatic veins throughout. Disseminated to blebby PO (~1%). Two foliations are present with being crenulated and overprinted by a spaced crenulation cleavage.

<<Min: 234.58 - 311.01 1.5% Min: Pyrrhotite>>

<<Alt: 234.58 - 311.01 Weak-Moderate Calcite>>

<<Vein: 234.75 - 235.7 10% Quartz-Carbonate 70 deg. >> Zone with quartz-carbonate veining.

<<Vein: 240.9 - 244.6 5% Quartz-Carbonate 70 deg. >> Zone with increased vein density and size. 4 irregular, massive quartz-carbonate veins varying from 3-30 cm wide.

<<Struc: 241 - 241 Moderate Crenulation cleavage>> Crenulation cleavage (S2)

243.66 244.06 MAFta Mafic coarse grained to ash tuff

243.66 - 244.06: Light green, fine-grained, chlorite-quartz-calcite schist. Mafic tuff? Irregular quartz-carbonate vienlets. Minor disseminated PO.

244.06 244.39 MDSc Carbonaceous dominant mudstone

244.06 - 244.39: Black, carbonaceous mudstone.

244.39 244.57 MAFta Mafic coarse grained to ash tuff

244.39 - 244.57: Light green, fine-grained, chlorite-quartz-calcite schist. Mafic tuff? Irregular quartz-carbonate vienlets. Minor disseminated PO.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

244.57 247.05 MDSc Carbonaceous dominant mudstone

244.57 - 247.05: Black, carbonaceous mudstone mixed with fine grained, silt-sized material. Irregular quartz-carbonate veinlets throughout. Minor disseminated PO.

<<Struc: 244.63 - 244.63 Moderate dominant foliation>> Penetrative foliation

247.05 247.50 SED Undifferentiated sedimentary rock

247.05 - 247.5: Blebby to curdy silica with clasts of carbonaceous material. Groundmass is a mix of silica and carbonaceous material. Asymmetric crenulation cleavage is well developed. Stretched oligiomictic conglomerate.

<<Struc: 247.19 - 247.19 Weak-Moderate Crenulation cleavage>> Crenulation cleavage (S2)

247.50 255.63 MDSc Carbonaceous dominant mudstone

247.5 - 255.63: Black, carbonaceous mudstone.

<<Struc: 253.62 - 253.62 Moderate dominant foliation>> Penetrative foliation

<<Struc: 254 - 254 Orientation Lock Angle>> Lock angle between orientation marks at 254 m and 257 m.

<<Struc: 255.4 - 255.4 Moderate dominant foliation>> Penetrative foliation

255.63 256.04 MAFta Mafic coarse grained to ash tuff

255.63 - 256.04: Light green, fine-grained, chlorite-quartz-calcite schist. Mafic tuff? Irregular quartz-carbonate vienlets. Minor disseminated PO.

256.04 259.30 MDSc Carbonaceous dominant mudstone

256.04 - 259.3: Black, carbonaceous mudstone. Lower contact is strongly crenulated.

<<Vein: 257.5 - 259.9 10% Quartz-Carbonate 60 deg. >> Zone of increased quartz-carbonate veins.

<<Struc: 257 - 257 Orientation Lock Angle>> Lock angle between orientation marks at 257 m and 260 m.

259.30 259.63 MAFta Mafic coarse grained to ash tuff

259.3 - 259.63: Light green, fine-grained, chlorite-quartz-calcite schist. Mafic tuff? Irregular quartz-carbonate vienlets. Minor disseminated PO. Upper contact is strongly crenulated.

<<Struc: 259.3 - 259.3 Weak-Moderate Crenulation cleavage>> Crenulation cleavage (S2). Axial planar cleavage to folded contact between MDSc and MAFta.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

259.63 264.56 MDSc Carbonaceous dominant mudstone

259.63 - 264.56: Black, carbonaceous mudstone.

<<Struc: 261.97 - 261.97 Moderate dominant foliation>> Penetrative foliation

264.56 266.58 MAFta Mafic coarse grained to ash tuff

264.56 - 266.58: Light green, fine-grained, chlorite-quartz-calcite+/-biotite schist.

266.58 270.24 MDSc Carbonaceous dominant mudstone

266.58 - 270.24: Black, carbonaceous mudstone.

<<Struc: 266.58 - 266.68 Weak Fault>> Minor faulting at contact

<<Struc: 268 - 268 Weak-Moderate dominant foliation>> Spaced foliation

270.24 270.56 RHYvx Quartz and/or feldspar crystal tuff

270.24 - 270.56: Light green, fine sand sized, quartz-phyric crystal tuff/sandstone.

270.56 280.65 MDSc Carbonaceous dominant mudstone

270.56 - 280.65: Black, carbonaceous mudstone. Disseminated to blebby pyrrhotite. Irregular quartz-carbonate veins and veinlets.

<<Vein: 271.25 - 275.1 25% Quartz-Carbonate 70 deg. >> Zone with higher density of quartz-carbonate veins, varying from 1-25 cm wide. Local patchy chlorite and pyrrhotite.

<<Struc: 276.87 - 276.87 Weak-Moderate dominant foliation>> Spaced foliation

280.65 281.76 SED Undifferentiated sedimentary rock

280.65 - 281.76: Medium grey, siliceous blebs to bands with clasts of carbonaceous material. Stretched oligiomictic conglomerate.

281.76 282.28 MDSc Carbonaceous dominant mudstone

281.76 - 282.28: Dark grey, carbonaceous-siliceous mudstone.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

282.28 282.50 SED Undifferentiated sedimentary rock

282.28 - 282.5: Medium grey, siliceous blebs to bands with clasts of carbonaceous material. Stretched oligiomictic conglomerate.

282.50 285.60 MDSc Carbonaceous dominant mudstone

282.5 - 285.6: Dark grey, carbonaceous mudstone mixed with some ash tuff? Disseminated PO. Moderately developed crenulation cleavage.

<<Struc: 283.1 - 283.1 Moderate dominant foliation>> Penetrative foliation

<<Struc: 283.1 - 283.1 Weak Crenulation cleavage>> Spaced crenulation cleavage (S2)

285.60 285.98 MAFta Mafic coarse grained to ash tuff

285.6 - 285.98: Light green, chlorite-sericite-quartz schist. Mafic tuff? Disseminated PO. Well developed crenulation cleavage.

285.98 288.55 SED Undifferentiated sedimentary rock

285.98 - 288.55: Medium grey, siliceous blebs to bands with clasts of carbonaceous material. Stretched oligiomictic conglomerate.

288.55 288.95 RHYva Coarse grained to ash tuff

288.55 - 288.95: Medium grey, fine grained, quartz-muscovite-biotite schist with disseminated PO.

288.95 289.59 SED Undifferentiated sedimentary rock

288.95 - 289.59: Medium grey, siliceous blebs to bands with clasts of carbonaceous material. Stretched oligiomictic conglomerate.

<<Vein: 289.16 - 289.27 100% Quartz 65 deg. >> Massive quartz vein

289.59 296.48 RHYv Undifferentiated Rhyolite volcaniclastic

289.59 - 296.48: Medium grey-green, very fine-grained quartz-muscovite-chlorite groundmass with disseminated fine-grained BI porphyroblasts and patchy calcite. Intermediate tuff?

<<Vein: 292.9 - 296.5 3% Calcium carbonate/Carbonate 45 deg. >> Irregular calcite +/- quartz veinlets.

<<Struc: 292.56 - 292.56 Weak-Moderate dominant foliation>> Spaced foliation

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 293 - 293 Orientation Lock Angle>> Lock angle between orientation marks at 293 m and 296 m.

<<Struc: 295.17 - 295.17 Weak-Moderate dominant foliation>> Penetrative foliation

<<Struc: 296 - 296 Orientation Lock Angle>> Lock angle between orientation marks at 296 m and 299 m.

296.48 297.28 RHYi Aphanitic Rhyolite (intrusion)

296.48 - 297.28: Cream coloured, aphanitic rhyolite (?)/silicified tuff? Muscovite-silica rich. Strong quartz veining with blebby PO. Disseminated Py throughout.

<<Vein: 296.5 - 297.3 50% Quartz-Carbonate 25 deg. >> Irregular quartz-carbonate veining with patchy PO.

297.28 301.98 RHYv Undifferentiated Rhyolite volcaniclastic

297.28 - 301.98: Medium grey-green, very fine-grained quartz-muscovite-chlorite groundmass with disseminated fine-grained BI porphyroblasts and patchy calcite. Intermediate tuff?

<<Vein: 297.3 - 301 5% Quartz-Carbonate 50 deg. >> Zone with increased irregular quartz-carbonate veins.

301.98 306.58 MDSc Carbonaceous dominant mudstone

301.98 - 306.58: Black, carbonaceous mudstone with patchy to banded calcite and disseminated to blebby PO.

<<Vein: 302.4 - 305.3 3% Quartz-Carbonate 70 deg. >> Zone with increased quartz-carbonate veinlets and 3 massive quartz-carbonate veins

<<Struc: 306.37 - 306.37 Strong dominant foliation>> Penetrative foliation

306.58 307.98 MAFta Mafic coarse grained to ash tuff

306.58 - 307.98: Medium green, fine grained, chlorite-quartz schist with disseminated PO and calcite veinlets.

307.98 311.01 MDSc Carbonaceous dominant mudstone

307.98 - 311.01: Black, carbonaceous mudstone with a patch of disseminated BI, resembling PEL. Moderate to high density of quartz-carbonate-tourmaline-sulphide veins.

<<Vein: 309 - 318 20% Quartz-Carbonate 70 deg. >> Zone with massive quartz-carbonate-tourmaline-pyrrhotite veins

311.01 315.12 RHYvx Quartz and/or feldspar crystal tuff

311.01 - 315.12: Light grey, fine grained, quartz-feldspar volcaniclastic sandstone.

<<Min: 311.01 - 339.3 0.01% Min: Pyrite>>

<<Alt: 311.01 - 339.3 Weak-Moderate Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

315.12 315.78 FLZ Fault Zone

315.12 - 315.78: Clast to gouge supported fault breccia

<<Struc: 315.15 - 315.75 Strong Fault>> Gouge to clast supported fault breccia

315.78 323.00 RHYvl Lapilli tuff

315.78 - 323: Medium grey, 'dirty' lapilli tuff, with lapilli varying from siliceous to biotite-chlorite-calcite.

<<Struc: 316.9 - 316.9 Strong dominant foliation>> Penetrative foliation

<<Struc: 317 - 317 Orientation Lock Angle>> Lock angle between orientation marks at 317 m and 320 m.

<<Struc: 319.81 - 319.81 Weak-Moderate dominant foliation>> Penetrative foliation

<<Struc: 320 - 320 Orientation Lock Angle>> Lock angle between orientation marks at 320 m and 323 m.

323.00 323.37 FLZ Fault Zone

323 - 323.37: Clast to gouge supported fault breccia

<<Struc: 323 - 323.42 Strong Fault>> Gouge to clast supported fault breccia

323.37 328.77 RHYvl Lapilli tuff

323.37 - 328.77: Medium grey, 'dirty' lapilli tuff, with lapilli varying from siliceous to biotite-chlorite-calcite.

<<Vein: 323.6 - 323.61 100% Tourmaline 10 deg. >> TML-PY vein. Alpha =10, Beta =355

<<Struc: 324.63 - 324.63 Moderate dominant foliation>> Penetrative foliation

328.77 330.95 RHYc Undifferentiated coherant rhyolite

328.77 - 330.95: Light yellowish-grey, silicic banded rhyolite.

<<Vein: 329 - 329.55 100% Quartz-Tourmaline 10 deg. >> Massive TML-QZ vein

330.95 339.30 RHYvl Lapilli tuff

330.95 - 339.3: Medium grey, 'dirty' lapilli tuff, with lapilli varying from siliceous to biotite-chlorite-calcite.

<<Vein: 332.85 - 335.05 40% Quartz-Carbonate 65 deg. >> Zone of irregular quartz-carbonate +/- tml +/- chl

<<Struc: 332 - 332 Orientation Lock Angle>> Lock angle between orientation marks at 332 m and 335 m.

<<Struc: 332.58 - 332.58 Moderate dominant foliation>> Penetrative foliation

339.30 346.80 RHYcf Feldspar & quartz phyric rhyolite

339.3 - 346.8: Light grey, coarse grained feldspar phyric, tuff? Feldspars are subhedral and moderately to strongly attenuated and make up ~10-15% of the rock. Groundmass is very fine grained felsic material.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 339.3 - 355.9 1% Min: Pyrite>>

<<Alt: 339.3 - 355.9 Trace Calcite>>

<<Vein: 340.1 - 340.7 100% Tourmaline 20 deg. >> Massive TML +/- carbonate vein

<<Vein: 341 - 343 10% Tourmaline 60 deg. >> Zone with irregular TML-CB veining

<<Struc: 341 - 341 Orientation Lock Angle>> Lock angle between orientation marks at 341 m and 344 m.

<<Struc: 341.19 - 341.19 Moderate dominant foliation>> Penetrative foliation

346.80 349.35 RHYva Coarse grained to ash tuff

346.8 - 349.35: Beige, fine grained, laminated, ash tuff?

<<Vein: 348.74 - 348.79 100% Quartz-Carbonate 50 deg. >> Irregular QZ-CB vein

349.35 355.90 RHYcf Feldspar & quartz phyric rhyolite

349.35 - 355.9: Light grey, coarse grained feldspar phyric, tuff? Feldspars are subhedral and moderately to strongly attenuated and make up ~10-15% of the rock. Groundmass is very fine grained felsic material.

<<Struc: 349.8 - 350.1 Moderate Fault>> Gouge to clast supported fault breccia

<<Struc: 351.56 - 351.56 Moderate dominant foliation>> Penetrative foliation

355.90 368.89 RHYvl Lapilli tuff

355.9 - 368.89: Yellowish-green, felsic and chloritic lapilli in a fine grained quartz-muscovite groundmass. Local disseminated coarse grained, subhedral feldspar.

<<Min: 355.9 - 452 1% Min: Pyrrhotite>>

<<Alt: 355.9 - 373.6 Weak-Moderate Calcite>>

<<Struc: 356 - 356 Orientation Lock Angle>> Lock angle between orientation marks at 356 m and 359 m.

<<Struc: 356.2 - 356.2 Moderate dominant foliation>> Penetrative foliation

<<Struc: 359 - 359 Orientation Lock Angle>> Lock angle between orientation marks at 359 m and 362 m.

<<Struc: 361.05 - 361.05 Moderate dominant foliation>> Penetrative foliation

<<Struc: 362 - 362 Orientation Lock Angle>> Lock angle between orientation marks at 362 m and 365 m.

<<Struc: 365 - 365 Orientation Lock Angle>> Lock angle between orientation marks at 365 m and 368 m.

<<Struc: 365.7 - 365.7 Moderate dominant foliation>> Penetrative foliation

368.89 378.38 MDSc Carbonaceous dominant mudstone

368.89 - 378.38: Black, carbonaceous mudstone to siltstone.

<<Alt: 373.6 - 409 Weak-Moderate Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 373.6 - 373.9 10% Quartz-Carbonate 80 deg. >> 2 irregular quartz-carbonate veins

<<Struc: 372.85 - 372.85 Moderate dominant foliation>> Penetrative foliation

378.38 390.07 SED Undifferentiated sedimentary rock

378.38 - 390.07: Medium grey, clast to matrix-supported, sand to pebble oligiomictic conglomerate. Clasts are dominated by siliceous clasts with lesser mudstone clasts. Clasts are sub angular and stretched. Local zones are void of clasts.

<<Struc: 379.43 - 379.43 Moderate dominant foliation>> Penetrative foliation

<<Struc: 382.73 - 382.73 dominant foliation>> Penetrative foliation

390.07 393.43 MAFta Mafic coarse grained to ash tuff

390.07 - 393.43: Green, fine grained, chlorite-calcite schist with disseminated fine grained pyrrhotite and biotite.

<<Struc: 390.45 - 390.45 Weak-Moderate dominant foliation>> Penetrative foliation

393.43 402.22 MDSc Carbonaceous dominant mudstone

393.43 - 402.22: Dark grey, intercalated carbonaceous and calcareous mudstone and green mafic tuff. Zones with strong silicification/chert.

<<Vein: 394.25 - 396.1 45% Quartz-Carbonate 60 deg. >> Zone with irregular quartz-carbonate veins to massive veins

<<Struc: 400.92 - 400.92 Moderate dominant foliation>> Penetrative foliation

402.22 410.45 MAFt Undifferentiated mafic volcaniclastic

402.22 - 410.45: Medium green to grey, mixed to intercalated, mafic tuffs and carbonaceous mudstones. Disseminated to patchy PO throughout. Patchy carbonate veining.

<<Alt: 409 - 426 Moderate-Strong Calcite>>

<<Vein: 403.5 - 403.8 80% Quartz-Carbonate 60 deg. >> Irregular massive quartz-carbonate vein

<<Vein: 409 - 410.4 40% Quartz-Carbonate 65 deg. >> Zone with irregular quartz-carbonate veins

410.45 421.85 MDSc Carbonaceous dominant mudstone

410.45 - 421.85: Black, carbonaceous mudstone with lesser intercalated mafic tuff.

<<Vein: 417 - 428 50% Quartz-Carbonate 65 deg. >> Zone with a high density of irregular carbonate +/- quartz veining

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Struc: 412.71 - 412.71 Moderate dominant foliation>> Penetrative foliation									
		<<Struc: 412.71 - 412.71 Moderate Crenulation cleavage>> Crenulation cleavage (S2)									
		<<Struc: 419.54 - 420.5 Weak Fault>>									
		<<Struc: 421.73 - 421.73 Moderate dominant foliation>> Penetrative foliation									
421.85	**424.30**	**MAFt Undifferentiated mafic volcaniclastic**	421.85	422.29	0.44	D00004583	-0.005	2.4	0.04	0.02	0.12
		421.85 - 424.3: Medium green, mafic tuff with intercalated carbonaceous mudstone. Moderate Mu-alteration with patchy PO and CP from 421.85 to 422.29 m.									
		<<Min: 421.85 - 422.29 1% Min: Chalcopyrite>>									
		<<Alt: 421.85 - 422.29 Moderate Muscovite>> Associated with patchy CP and minor CP									
424.30	**426.54**	**MDSc Carbonaceous dominant mudstone**									
		424.3 - 426.54: Dark grey to black, carbonaceous mudstone with patchy carbonate and PO.									
		<<Alt: 426 - 452 Moderate Calcite>>									
		<<Struc: 424.6 - 424.6 Moderate dominant foliation>>									
426.54	**435.20**	**MAFt Undifferentiated mafic volcaniclastic**									
		426.54 - 435.2: Intercalated mafic tuff and carbonaceous mudstone.									
		<<Struc: 429.88 - 429.88 Moderate dominant foliation>> Penetrative foliation									
		<<Struc: 431 - 431 Orientation Lock Angle>> Lock angle between orientation marks at 431 m and 434 m.									
		<<Struc: 433.09 - 433.09 Moderate dominant foliation>> Penetrative foliation									
435.20	**452.00**	**MAFt Undifferentiated mafic volcaniclastic**									
		435.2 - 452: Green, chlorite-biotite-calcite, mafic tuff. Patchy carbonate veining with local disseminated PO +/- PY +/- GL +/- SP +/- CP. Disseminated to patchy PO throughout.									
		<<Min: 436.7 - 436.75 2% Min: Sphalerite>>									
		<<Min: 436.7 - 436.75 1% Min: Pyrite>>									
		<<Min: 436.7 - 436.75 1% Min: Galena>>									
		<<Min: 436.7 - 436.75 1% Min: Chalcopyrite>>									
		<<Vein: 436.7 - 442 5% Quartz-Carbonate 70 deg. >> Zone with increased density of irregular quartz-carbonate veining. Local PO + SP + CP +PY + GL in vein.									
		<<Struc: 440 - 440 Orientation Lock Angle>> Lock angle between orientation marks at 440 m and 443 m.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Struc: 442.63 - 442.63 Moderate dominant foliation>> Penetrative foliation											
<<Struc: 446 - 446 Orientation Lock Angle>> Lock angle between orientation marks at 446 m and 449 m.											
<<Struc: 448.75 - 448.75 Moderate dominant foliation>> Penetrative foliation											
End of Hole @ 452											

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-448

Prospect:	ABM	Hole Type:	DD	Survey Type:	PLND-LiDAR	Logged By:	Jerome de Pasquale
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Dillon Hume	Date Logging Start:	8/29/2017
UTM Easting	415452	Core Size:	HQ3	Azimuth:	176.47	Date Logging Complete:	9/18/2017
UTM Northing:	6817253	Casing Pulled?:	Yes	Dip:	-85.31	Drill Company:	New Age
UTM Elev. (m):	1420	Casing Depth (m):	13.5	Length (m):	1017	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	8/27/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	9/15/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Exploration
						Parent Hole:	

Comments:

K17-448 was drilled for Exploration/Condemnation over the proposed mill site. Hole shutdown on September 15th, 2017 at 7:00 am and was followed by a downhole EM survey.

- The top of the hole consists of carbonaceous-graphitic mudstone (slate) and chloritic-calcareous-fine to medium grain sediments and mafic flows (Wind Lake Formation).
- Core from 300.77m to 363.71m consists of felsic, porphyritic, volcaniclastic rhyolite (possibly intrusive? RHYcf/RHYif) and a biotite-rich interval, interpreted as meta-pelite (KZK Formation?).
- Core from 363.71m to 782.03 consists of intercalated, carbonaceous mudstone (MDS) and sediments (SED).
- From 782.3 to 827.18 m, a felsic porphyritic (or porphyroblastic) volcaniclastic sequence is encountered, which could also potentially be a felsic intrusion.
- From 782.02m to 1017.00m, sediments and mafic flows are dominantly, resembling the Wind Lake Fm, are encountered.

No significant muscovite or chlorite alteration similar to ABM deposit have been recognized. Biotite is observed all along the hole with different forms (fine grained to porphyroblastic, disseminated to patchy, as well as in veinlets). Mineralization consists of in wispy to fine grained disseminated pyrite, wispy to patchy pyrrhotite and locally trace chalcopyrite associated with pyrrhotite. Some evidence of post deformation mineralization is observed: including crosscutting pyrite veinlets and pyrite in pressure shadows.
The EM survey resulted in a positive conductivity anomaly as a result of graphitic mudstone, which was tested on core (using a multimeter). Originally planned at 900 metres, K17-448 was shut down at 1017 metres (E.O.H.) in mafic granular unit (possibly intrusive).

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-85.31	175.07	1.4	176.47	EZ-Gyro	New Age	8/30/2017		☑	Standard
15.5	-84.99	177.42	1.4	178.82	EZ-Gyro	New Age	8/28/2017		☑	Standard
33.5	-84.54	180.53	1.4	181.93	EZ-Gyro	New Age	8/29/2017		☑	Optimised
45.5	-84.32	182.48	1.4	183.88	EZ-Gyro	New Age	8/29/2017		☑	Optimised
60.5	-83.24	188.38	1.4	189.78	EZ-Gyro	New Age	8/29/2017		☑	Optimised
75.5	-82.44	191.52	1.4	192.92	EZ-Gyro	New Age	8/29/2017		☑	Standard
90.5	-81.67	191.01	1.4	192.41	EZ-Gyro	New Age	8/29/2017		☑	Standard
105.5	-81.56	190.65	1.4	192.05	EZ-Gyro	New Age	8/29/2017		☑	Standard
135.5	-81.1	191.23	1.4	192.63	EZ-Gyro	New Age	8/30/2017		☑	Optimised
150.5	-80.92	191.66	1.4	193.06	EZ-Gyro	New Age	8/30/2017		☑	Optimised
165.5	-80.82	192.11	1.4	193.51	EZ-Gyro	New Age	8/30/2017		☑	Optimised
180.5	-80.62	191.28	1.4	192.68	EZ-Gyro	New Age	8/30/2017		☑	Optimised
210.5	-80.35	192.5	1.4	193.9	EZ-Gyro	New Age	8/30/2017		☑	Optimised

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
220.5	-81.36	191.32	1.4	192.72	EZ-Gyro	New Age	8/30/2017		☑	Standard
225.5	-80.14	193.21	1.4	194.61	EZ-Gyro	New Age	8/30/2017		☑	Optimised
240.5	-80.02	192.95	1.4	194.35	EZ-Gyro	New Age	8/31/2017		☑	Optimised
255.5	-79.9	193.01	1.4	194.41	EZ-Gyro	New Age	8/31/2017		☑	Optimised
270.5	-79.79	193.13	1.4	194.53	EZ-Gyro	New Age	8/31/2017		☑	Optimised
285.5	-79.77	193.94	1.4	195.34	EZ-Gyro	New Age	8/31/2017		☑	Optimised
300.5	-79.71	194.26	1.4	195.66	EZ-Gyro	New Age	8/31/2017		☑	Optimised
315.5	-79.68	193.82	1.4	195.22	EZ-Gyro	New Age	9/1/2017		☑	Optimised
330.5	-79.57	194.22	1.4	195.62	EZ-Gyro	New Age	9/1/2017		☑	Optimised
345.5	-79.62	195.22	1.4	196.62	EZ-Gyro	New Age	9/1/2017		☑	Optimised
360.5	-79.62	196.06	1.4	197.46	EZ-Gyro	New Age	9/1/2017		☑	Optimised
375.5	-79.61	200.07	1.4	201.47	EZ-Gyro	New Age	9/1/2017		☑	Optimised
390.5	-79.52	196.78	1.4	198.18	EZ-Gyro	New Age	9/2/2017		☑	Optimised
405.5	-79.55	196.64	1.4	198.04	EZ-Gyro	New Age	9/2/2017		☑	Optimised
420.5	-79.45	196.16	1.4	197.56	EZ-Gyro	New Age	9/2/2017		☑	Optimised
435.5	-79.48	198.49	1.4	199.89	EZ-Gyro	New Age	9/3/2017		☑	Optimised
440.5	-78.28	199.47	1.4	200.87	EZ-Gyro	New Age	9/4/2017		☑	Optimised
450.5	-79.55	198.18	1.4	199.58	EZ-Gyro	New Age	9/3/2017		☑	Optimised
465.5	-79.46	198.42	1.4	199.82	EZ-Gyro	New Age	9/3/2017		☑	Optimised
480.5	-78.98	198.16	1.4	199.56	EZ-Gyro	New Age	9/4/2017		☑	Optimised
495.5	-78.65	197.98	1.4	199.38	EZ-Gyro	New Age	9/4/2017		☑	Optimised
513.5	-78.33	198.11	1.4	199.51	EZ-Gyro	New Age	9/4/2017		☑	Optimised
525.5	-78.27	198.54	1.4	199.94	EZ-Gyro	New Age	9/4/2017		☑	Optimised
540.5	-78.26	199.18	1.4	200.58	EZ-Gyro	New Age	9/5/2017		☑	Optimised
555.5	-78.17	199.29	1.4	200.69	EZ-Gyro	New Age	9/5/2017		☑	Optimised
570.5	-78.19	199.2	1.4	200.6	EZ-Gyro	New Age	9/5/2017		☑	Optimised
585.5	-78.18	200.45	1.4	201.85	EZ-Gyro	New Age	9/5/2017		☑	Optimised
600.5	-78.15	200.1	1.4	201.5	EZ-Gyro	New Age	9/5/2017		☑	Optimised
615.5	-78.07	200.27	1.4	201.67	EZ-Gyro	New Age	9/6/2017		☑	Optimised
630.5	-78.01	200.91	1.4	202.31	EZ-Gyro	New Age	9/6/2017		☑	Optimised
645.5	-78.15	201.86	1.4	203.26	EZ-Gyro	New Age	9/6/2017		☑	Optimised
660.5	-78.09	201.45	1.4	202.85	EZ-Gyro	New Age	9/7/2017		☑	Optimised
675.5	-78.04	202.75	1.4	204.15	EZ-Gyro	New Age	9/7/2017		☑	Optimised
690.5	-78.09	202.98	1.4	204.38	EZ-Gyro	New Age	9/7/2017		☑	Optimised

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
720.5	-77.92	201.83	1.4	203.23	EZ-Gyro	New Age	9/8/2017		☑	Optimised
750.5	-77.68	203.78	1.4	205.18	EZ-Gyro	New Age	9/9/2017		☑	Optimised
780.5	-77.81	206.3	1.4	207.7	EZ-Gyro	New Age	9/9/2017		☑	Optimised
810.5	-77.96	204.97	1.4	206.37	EZ-Gyro	New Age	9/10/2017		☑	Optimised
840.5	-77.96	205.99	1.4	207.39	EZ-Gyro	New Age	9/10/2017		☑	Optimised
870.5	-78.06	207.24	1.4	208.64	EZ-Gyro	New Age	9/11/2017		☑	Optimised
900.5	-77.9	207.41	1.4	208.81	EZ-Gyro	New Age	9/12/2017		☑	Optimised
930.5	-78.09	210.21	1.4	211.61	EZ-Gyro	New Age	9/13/2017		☑	Optimised
960.5	-77.97	211.29	1.4	212.69	EZ-Gyro	New Age	9/14/2017		☑	Optimised
990.5	-77.83	212.54	1.4	213.94	EZ-Gyro	New Age	9/14/2017		☑	Optimised
1011.5	-77.82	212.33	1.4	213.73	EZ-Gyro	New Age	9/15/2017		☑	Optimised

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 13.50 OVBN Overburden

0 - 13.5: Casing, rubbles.

13.50 35.63 MAFt Undifferentiated mafic volcaniclastic

13.5 - 35.63: Medium grey to pale green mafic volcaniclastic with variable composition and textures. Invariably has chlorite in groundmass (from minor to chlorite-dominated) as well as varying abundance of calcite (up to 50%) and speckled biotite crystals ~1 mm (up to 80%). Weakly foliated.

<<Min: 13.5 - 38.1 0.1% Min: Pyrrhotite>>

<<Min: 26.99 - 27 5% Min: Sphalerite>>

<<Alt: 13.5 - 62.66 Weak Calcite>> Calcite in bands and groundmass throughout all units. Pervasiveness is variable from trace to weak-moderate throughout the interval and both extremes exist in the mudstone and mafic.

<<Alt: 25.77 - 25.81 Moderate Muscovite>>

<<Vein: 13.5 - 266.7 3% Quartz-Carbonate>> Quartz-Calcite veins up to 7 cm concordant with mudstone laminations and mafic volcaniclastic foliations. Irregular (discordant) veins also occur but are not as common. Some larger veins contain chlorite. Vein abundance in given sections can range from ~10% to <1% of the mode.

<<Vein: 17.44 - 17.92 100% Quarzt-Chlorite-Carbonate>>

<<Vein: 20.35 - 20.75 95% Quarzt-Chlorite-Carbonate>> Dominantly calcite (~85%)

<<Vein: 22.91 - 23.17 100% Quarzt-Chlorite-Carbonate 75 deg. >> Minor tourmaline (<1%).

<<Vein: 24.3 - 24.43 97% Quartz-Carbonate>> Minor tourmaline (1%)

<<Vein: 24.85 - 25.77 95% Quarzt-Chlorite-Carbonate>> Quartz-Calcite dominated with 3% chlorite.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 27.48 - 27.49 Weak Foliation>>

<<Struc: 31.29 - 31.3 Weak-Moderate Foliation>>

35.63 36.42 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

35.63 - 36.42: Dark grey laminated mudstone with graphitic and calcareous layers. Upper and lower contacts with mafic volcaniclastics are gradational.

36.42 37.45 MAFt Undifferentiated mafic volcaniclastic

36.42 - 37.45: Intercalation of mafic volcaniclastics. Minor chlorite in groundmass and 1 mm biotite crystals 2% of the mode.

37.45 38.31 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

37.45 - 38.31: Dark grey laminated mudstone, dominated by graphitic layers but also includes calcareous layers. Two parallel (concordant with laminations) Sphalerite bands present ~0.5 cm at ~38 m depth.

<<Min: 38.08 - 38.1 20% Min: Sphalerite>> Minor pyrite (1%) and potentially galena with a similar mode to sphalerite (crystals too small to distinguish).

<<Min: 38.1 - 62.66 0.1% Min: Pyrrhotite>> Some sections contain up to 2% pyrrhotite

<<Struc: 37.93 - 37.94 Moderate Foliation>> Calcite band

38.31 44.89 MAFt Undifferentiated mafic volcaniclastic

38.31 - 44.89: Mafic volcaniclastic with chlorite in groundmass and banded calcite. Weak to moderately foliated and contains 1 mm biotite crystals throughout (1% of mode). Concordant and discordant Quartz-Calcite (larger ones also contain chlorite) veins are present up to 80 cm.

<<Vein: 38.31 - 39.18 99% Quarzt-Chlorite-Carbonate>> Quartz-Calcite dominated with 7% chlorite.

44.89 47.00 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

44.89 - 47: Dark grey laminated mudstone with abundant graphitic laminations. Contains calcite bands (up to 1 cm) concordant to laminations.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

47.00 47.62 MAFt Undifferentiated mafic volcaniclastic

47 - 47.62: Fine-grained mafic volcaniclastic with chlorite in matrix. Large quartz-calcite veins in unit (up to 12 cm). Sharp contacts with upper & lower mudstone units.

47.62 49.25 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

47.62 - 49.25: Dark grey laminated mudstone with intercalated mafic tuff. Calcite bands (up to 1 cm) present, concordant with laminations. Upper contact is sharp while lower contact is gradational.

49.25 58.50 MAFt Undifferentiated mafic volcaniclastic

49.25 - 58.5: Medium grey-pale green mafic volcaniclastic with chlorite in groundmass. Calcite occurs in bands and in groundmass as well as quartz-calcite veins (up to 1 cm) concordant to the weak foliation. Speckled biotite =< 1 mm accounts for 1% of the mode.

<<Struc: 55.87 - 55.88 Trace Foliation>>

<<Struc: 57.47 - 59.4 Weak Fault>> Fault with heavily gouged zone surrounded by highly fracture rock. Contains MAFt - MDS contact.

58.50 60.32 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

58.5 - 60.32: Dark grey laminated mudstone. Abundant graphitic laminations and contains discontinuous calcite bands. Sharp upper and lower contacts, fault at the upper contact (moderate intensity).

60.32 62.66 MAFt Undifferentiated mafic volcaniclastic

60.32 - 62.66: Pale green mafic volcaniclastic with a chlorite groundmass. Weakly foliated with concordant calcite bands.

62.66 95.45 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone			92.89	93.90	1.01	B00267816	0.008	-0.3	0.02	-0.01	0.02

62.66 - 95.45: Medium to dark grey laminated mudstone. Calcite alteration throughout most of the interval but absent in high-carbonaceous and silicified sections. Deformation (crenulations and folding) is common in the laminations, calcite bands, and silicified bands. Increase in sulphide abundance (patchy) at 89 m depth.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Min: 62.66 - 122.53 0.5% Min: Pyrrhotite>> Patches and vein-filling of pyrrhotite and pyrite. Clusters can be up to 3 cm of semi-massive pyrrhotite. Pyrite more common in veins.	93.90	94.65	0.75	B00267817	0.011	-0.3	0.02	-0.01	0.13
		<<Alt: 78.51 - 93.96 Weak-Moderate Silicification>> Sections of silicified mudstone (up to 70 cm in length) accounting for ~5% of the interval. Laminations are folded in silicified sections.	94.65	95.45	0.80	B00267818	-0.005	0.4	0.03	-0.01	0.02
		<<Alt: 93.96 - 266.7 Weak Calcite>> Calcite in bands and groundmass throughout all units. Pervasiveness is variable from trace to weak-moderate throughout the interval and both extremes exist in the mudstone and mafic.									
		<<Struc: 64.04 - 64.57 Trace Fault>> Fault with small fragments and minor gouge.									
		<<Struc: 94 - 94.27 Moderate Fault>> Heavily gouged									
95.45	**100.22**	**MAFt** **Undifferentiated mafic volcaniclastic** 95.45 - 100.22: Pale green mafic volcaniclastic with a chloritic groundmass. Calcite in groundmass varies from none to high abundance (approximately equal to chlorite, 50%). Heavily faulted with intercalated brecciated mudstone in the fault zone.									
		<<Struc: 96.06 - 98.23 Weak-Moderate Fault>> Fault zone, strong intensely gouged from 96.7 to 98 m depth.									
100.22	**100.96**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone** 100.22 - 100.96: Dark grey laminated mudstone with calcite bands. Deformation is present throughout most of the interval.									
100.96	**175.19**	**MAFt** **Undifferentiated mafic volcaniclastic** 100.96 - 175.19: Pale green to medium grey mafic volcaniclastics with intercalated mudstone. The unit varies in textures and mineralogy, but invariably contains chlorite in groundmass and consistently contains calcite and biotite at variable modes. Units include a fine-grained unit (ash?) as well as a fine-grained tuff with large (cm scale) clasts (lapilli?) that are intercalated throughout the interval. Quartz-Calcite-(chlorite/tourmaline/sulphides [po-py-rare sp in calcite band]) veining is abundant in this unit and varies in size from <1 mm to 68 cm; note: from 112.61m to 112.78m, MDS: pale blue, very fine grained banded; biotite-graphite (?)-calcite-chlorite; MAFt: pale green, very fine grained, fine grained and porphyritic biotite; wispy po at contact between mudstone and ash tuff (?), cross-cutting the contact (alteration front?) and marked by po thread.	138.46	139.40	0.94	B00267844	0.007	-0.3	0.01	-0.01	0.23
		<<Min: 122.53 - 154.35 0.1% Min: Pyrrhotite>> Disseminated pyrrhotite in small lenses (< 1 cm) hosted in mudstones and mafic tuffs. Lenses are concordant with foliation & laminations. Pyrite also present but the pyrrhotite is more abundant.	139.40	140.12	0.72	B00267845	-0.005	-0.3	0.02	-0.01	0.02
		<<Min: 139 - 139.1 3% Min: Sphalerite>> In calcite band, associated with py; other calcite band around mineralized has trace po-py-cpy.	142.60	143.21	0.61	B00267819	0.007	-0.3	0.02	-0.01	0.02
		<<Min: 154.35 - 206.63 0.1% Min: Pyrite>> Disseminated pyrite through all lithologies. Typically lenses-shaped (mm scale) concordant to foliation/laminations or in discordant veinlets. In massive veins (Qtz-Ca) can be semi-massive. Disseminated pyrrhotite is also present but is no longer the predominant sulphide.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Alt: 155.45 - 155.57 Moderate Chlorite>> Chlorite alteration along extremities of a quartz-biotite-chlorite vein containing (globby) massive pyrite and minor chalcopyrite.

<<Vein: 108.04 - 108.72 95% Quartz-Carbonate 60 deg. >>

<<Vein: 142.84 - 142.99 100% Quartz-Chlorite-Sulphide 80 deg. >> Also contains biotite (10%) and carbonate. Pyrite + pyrrhotite present.

<<Vein: 173.99 - 174.29 90% Quartz-Chlorite-Sulphide>> Also contains carbonate, biotite, tourmaline.

<<Struc: 107 - 107 Orientation Lock Angle>> Lock angle between orientation mark at 110 m and 107m.

<<Struc: 115.77 - 115.78 Weak Foliation>>

<<Struc: 124.44 - 124.45 Weak Foliation>>

<<Struc: 131 - 131 Orientation Lock Angle>> Lock angle between orientation mark at 134 m and 131 m.

<<Struc: 133.45 - 133.46 Weak Foliation>>

<<Struc: 145.69 - 145.7 Weak Foliation>>

<<Struc: 169.85 - 169.86 Weak Foliation>>

<<Struc: 174.94 - 175.19 Weak-Moderate Fault>>

175.19 181.89 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

175.19 - 181.89: Black laminated mudstone with abundant calcite banding & Quartz-Calcite veining. Upper contact is a fault (heavily gouged) and lower contact is a gradational deformed zone (historical fault?) with two small (1 cm) gouged surfaces.

181.89 188.00 MAFt **Undifferentiated mafic volcaniclastic**

181.89 - 188: Fine-grained pale green mafic volcaniclastic with a chloritic groundmass. Contains calcite in groundmass and speckled biotite <1 mm that accounts for 1% of the mode. Weakly foliated with concordant calcite bands & quartz-calcite veins.

<<Struc: 184.54 - 185.15 Weak-Moderate Fault>>

188.00 200.88 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

188 - 200.88: Black laminated mudstone with abundant calcite banding and quartz-calcite veining (20% of mode).

<<Vein: 191.29 - 191.57 100% Quarzt-Chlorite-Carbonate>>

<<Struc: 190.96 - 190.97 Moderate Foliation>>

<<Struc: 197 - 197 Orientation Lock Angle>> Lock angle between orientation mark at 197 and 200 m.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 200 - 200 Orientation Lock Angle>> Lock angle between orientation mark at 200 and 203 m.

200.88 205.46 MAFt Undifferentiated mafic volcaniclastic

200.88 - 205.46: Fine-grained pale green mafic volcaniclastic with a chloritic groundmass. Calcite occurs in groundmass, bands, veins (with quartz), and porphyroblastic crystals up to 5 mm and in total calcite accounts for 10% of the mode.

<<Vein: 203.42 - 203.6 85% Quarzt-Chlorite-Carbonate>> Also contains pyrrhotite (2%)

<<Vein: 204.38 - 204.65 100% Quartz-Carbonate-Sulphide>> Predominately quartz (>90%).

<<Struc: 202.65 - 202.66 Weak Foliation>>

205.46 206.16 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

205.46 - 206.16: Dark grey laminated mudstone with abundant discordant quartz-calcite veins (up to 1 cm).

206.16 206.63 MAFt Undifferentiated mafic volcaniclastic

206.16 - 206.63: Fine-grained pale green mafic volcaniclastic. Weakly foliated with concordant quartz-calcite veins (< 5 cm) and discordant pyrite veinlets (1 mm).

206.63 223.61 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

206.63 - 223.61: Black laminated mudstone with abundant calcite alteration in the form of bands and veins (with quartz). Pyrrhotite occurs in elongated patches and strings concordant with the mudstone laminations, and accounts for 3% of the mode.

<<Min: 206.63 - 248.54 2% Min: Pyrrhotite>> Elongated lenses & patches concordant with laminations. 1 mm to 1 cm width.

<<Struc: 211.89 - 211.9 Weak Foliation>>

223.61 225.56 MAFt Undifferentiated mafic volcaniclastic

223.61 - 225.56: Fine-grained pale green mafic volcaniclastic. Interval dominated by massive quartz-calcite veins.

<<Vein: 223.74 - 225.78 90% Quartz-Carbonate>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

225.56 228.60 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

225.56 - 228.6: Black laminated mudstone with calcareous banding (10%).

228.60 230.04 MAFt Undifferentiated mafic volcaniclastic

228.6 - 230.04: Fine-grained pale green mafic volcaniclastic with calcite in groundmass and 1 cm quartz-calcite veins (concordant) throughout the interval.

<<Vein: 228.97 - 229.13 97% Quartz-Carbonate>> 60% Calcite

<<Struc: 230 - 230 Orientation Lock Angle>> Lock angle between orientation mark at 230 and 233 m.

230.04 238.46 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

230.04 - 238.46: Black laminated mudstone with calcite bands and minor Quartz-Calcite veining (generally mm scale with few exceptions).

<<Struc: 232.65 - 232.66 Weak Foliation>>

238.46 239.31 MAFt Undifferentiated mafic volcaniclastic

238.46 - 239.31: Fine-grained pale green mafic volcaniclastic. Sections with biotite porphyroblasts 1-2 mm, 3% of mode.

239.31 239.64 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

239.31 - 239.64: Black laminated mudstone with 1 mm discordant Quartz-Calcite veins.

239.64 239.91 MAFt Undifferentiated mafic volcaniclastic

239.64 - 239.91: Fine-grained pale green mafic volcaniclastic with 3% pyrite in interval.

From (m)	To (m)	Rocktype & Description
239.91	**248.54**	**MDSc** **Carbonaceous dominant mudstone**

239.91 - 248.54: Dark grey to black laminated mudstone. Massive irregular Quartz-Calcite vein (with other minor constituents) from 242 to 243.8 m depth followed by faulting (with veining still present) until 245.8 m depth. Galena in massive vein (243 m depth).

<<Min: 241 - 243 0.1% Min: Galena>> in massive quartz vein

<<Vein: 241.56 - 244.13 90% Quartz-Carbonate-Sulphide>> Sulphides consist of (in order of greatest mode) pyrrhotite, galena, and pyrite for a total of 1%.

<<Struc: 243.63 - 245.75 Weak Fault>> Fault zone with multiple gouged sections generally orientated with the core axis.

<<Struc: 248 - 248 Orientation Lock Angle>> Lock angle between orientation mark at 248 and 251 m.

248.54	**255.47**	**MAFt** **Undifferentiated mafic volcaniclastic**

248.54 - 255.47: Fine-grained pale green mafic volcaniclastic with chlorite & calcite in groundmass and 1 mm speckled biotite (10% of mode) throughout the interval. Sharp upper contact and gradational lower contact. Stockwork pyrite over first 40 cm, Talc and massive Pyrite in vein at 254.3 m depth.

<<Min: 248.54 - 248.9 5% Min: Pyrite>> Stockwork pyrite.

<<Min: 248.9 - 256.56 1% Min: Pyrite>> Disseminated and vein-hosted.

<<Vein: 254.09 - 254.35 10% Carbonate-Sulphide 20 deg. >> Two carbonate-sulphide-talc veins 1 mm and 1 cm respectively. Sulphides are pyrite (massive bleb in vein) and galena.

<<Struc: 249.27 - 249.28 Trace Foliation>>

255.47	**256.20**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

255.47 - 256.2: Dark grey laminated mudstone with 4% pyrite.

256.20	**256.56**	**MAFt** **Undifferentiated mafic volcaniclastic**

256.2 - 256.56: Fine-grained pale green mafic volcaniclastic with massive quartz vein. Chlorite intensifies proximal to the vein; Calcite in matrix; very fine grained po (trace) disseminated.

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
242.04	242.73	0.69	B00267821	-0.005	1.2	-0.01	0.05	0.03
242.73	243.63	0.90	B00267822	-0.005	8.9	-0.01	0.23	0.02

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

256.56 260.39 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

256.56 - 260.39: Dark grey to black laminated mudstone. Calcite banding accounts for 10% of the mode while disseminated/lenses/patches of pyrite and/or pyrrhotite account for 4%. Sharp upper & lower contacts.

<<Min: 256.56 - 300.77 3% Min: Pyrrhotite>> Elongated lenses in calcite bands in MDSc, disseminated blebs (1-2 mm) in MAFt.

<<Min: 256.56 - 338.32 0.1% Min: Pyrite>> and associated with qtz vein

260.39 264.25 MAFt **Undifferentiated mafic volcaniclastic**

260.39 - 264.25: Fine-grained pale-green mafic volcaniclastic, chlorite groundmass dominated with 1 mm calcite and biotite crystals throughout the interval. Quartz-Calcite-(chlorite-sulphides) veins from 1 mm to 20 cm.

<<Vein: 263.99 - 264.25 85% Quarzt-Chlorite-Carbonate>>

<<Struc: 263 - 263 Orientation Lock Angle>>

264.25 266.83 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

264.25 - 266.83: Black laminated mudstone with abundant pyrrhotite.

<<Alt: 266.7 - 300.77 Moderate Calcite>> Lithology controlled

<<Struc: 265.2 - 265.21 Weak Foliation>>

266.83 271.10 MAFt **Undifferentiated mafic volcaniclastic**

266.83 - 271.1: Pale green fine-grained mafic volcaniclastic with a chloritic groundmass. 1 mm Biotite porphyroblasts occur speckled throughout the unit or in 1 cm to 4 cm bands concordant to the foliation that contain high modes (~80%).

<<Struc: 269 - 269 Orientation Lock Angle>> Lock angle between orientation mark at 269 and 272 m.

271.10 285.56 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

271.1 - 285.56: Black laminated mudstone calcite bands and elongated disseminated pyrrhotite at 4%. Deformation occurs throughout the interval as the laminations & calcite bands are commonly folded. Pyrrhotite is most commonly mineralized in the calcite bands but can also be lithology-hosted.

<<Vein: 276.06 - 276.3 70% Quartz-Carbonate-Sulphide 60 deg. >> Calcite-quartz-po semi massive patch/vein

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Struc: 274 - 274.01 Foliation>>									
		<<Struc: 284 - 284.01 Foliation>>									
285.56	**286.89**	**MAFt** **Undifferentiated mafic volcaniclastic**									
		285.56 - 286.89: Pale green fine-grained mafic volcaniclastic with chloritic groundmass and speckled biotite (1-2 mm). Contains 20 cm gradational margins towards the contacts in which it becomes more calcite-dominated with a medium-grey colour. Both contacts with the mudstone are sharp.									
286.89	**295.09**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**	293.00	294.09	1.09	B00267823	0.009	0.3	-0.01	-0.01	0.02
		286.89 - 295.09: Black laminated mudstone with calcite bands and elongated disseminated pyrrhotite (3%). Deformation occurs throughout the interval but is more localized than the previous mudstone interval. Section of veining and deformation from 293.44 to 294.00 m depth which contains quartz-calcite veining, folding, and a chlorite-cordierite vein.									
		<<Vein: 293.44 - 293.78 70% Quartz-Carbonate-Sulphide 80 deg. >> Large calcite-minor quartz-po-py-bio patch, possibly cordierite porphyroblasts									
		<<Struc: 289.5 - 289.51 Foliation>>									
295.09	**300.77**	**MAFt** **Undifferentiated mafic volcaniclastic**									
		295.09 - 300.77: Pale green mafic volcaniclastic with a chloritic groundmass and speckled biotite porphyroblasts. Majority (~65%) of the interval is dominated by deformed chlorite/calcite/biotite bands with deformed quartz-calcite veins, which obliterate the original MAFt fabric.									
		<<Vein: 299.8 - 299.82 100% Calcium carbonate/Carbonate 35 deg. >> Calcite veinlet disrupted, cross-cutting foliation, biotite envelope									
300.77	**301.73**	**RHYcf** **Feldspar & quartz phyric rhyolite**									
		300.77 - 301.73: First contact of the KZK formation in K17-448. Volcaniclastic rhyolite with 1 mm to 2 cm quartz/feldspar crystals. Gradational upper & lower contacts in which it transitions from a matrix-dominated (towards the contacts) to a clast-dominated unit.									
		<<Min: 300.77 - 320.9 0.1% Min: Pyrrhotite>>									
		<<Alt: 300.77 - 317.53 Weak-Moderate Calcite>> Replacing lapilli/crystals									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

301.73 304.00 RHYv Undifferentiated Rhyolite volcaniclastic

301.73 - 304: Medium grey fine-grained volcaniclastic. Contains feldspar/quartz phenocrysts (partially replaced by calcite) akin to the overlying RHYvx unit, however contains a chloritic, groundmass and 1 mm speckled biotite (pepper-texture) that accounts for 10% of the mode. Likely a transition zone from mafic volcaniclastics of the Wind Lake with components (clasts) from the KZK formation. Unit including 5 to 20 cm pelite intercalated.

304.00 308.79 RHYcf Feldspar & quartz phyric rhyolite

304 - 308.79: Start of logging by Jerome de Pasquale; medium grey, fine grained matrix, poorly sorted, medium strained lapilli, subangular crystals (up to 3 cm wide) partially calcite replaced; fine grained biotite-calcite interval from 303.70m to 303.75m; biotite overprint at lower contact/gradational contact with pelite; possible pelitic (biotite bands) at lower contact.

<<Struc: 305 - 305 Orientation Lock Angle>>

<<Struc: 305.5 - 305.51 Foliation>> weak foliation

<<Struc: 308 - 308 Orientation Lock Angle>> Lock angle between orientation mark at 308 and 311 m.

<<Struc: 308.25 - 308.26 dominant foliation>>

308.79 309.55 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

308.79 - 309.55: Dark grey to black, weakly foliated, fine grained biotite (70%), calcite blebs (3%), gradational upper contact.

309.55 312.65 RHYcf Feldspar & quartz phyric rhyolite

309.55 - 312.65: Medium grey, medium strained heterogeneous sized, lapilli and probably feldspar phenocrysts, clasts/crystal supported (partially calcite altered), texture showing secondary foliation at upper contact (pseudo granular), locally discontinuous quartz-calcite vein (pods).

312.65 317.53 RHYcf Feldspar & quartz phyric rhyolite

312.65 - 317.53: Medium grey-locally light green (locally chloritic), peppery fine grained biotite (10 to 15%), poorly sorted heterogeneous medium to low strained lapilli and large subangular feldspar phenocrysts (up to 3 cm wide), rare qtz-tourmaline veinlets showing 3 to 5 cm with envelope; possibly pelitic input at lower contact (gradational). Could be part of the unit above showing segregation of the phenocrysts.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

317.53 320.90 MAFta Mafic coarse grained to ash tuff FG

317.53 - 320.9: Grey-green (chlorite), fine grained, peppery biotite (20%) overprint (?), calcareous (15 to 20%), 15 cm calcite-qtz-tourmaline vein-bleaching over 20 cm around, rare calcite discontinuous-deformed veinlets. Possibly part of the Wind Lake Formation.

<<Alt: 317.53 - 320.9 Moderate Calcite>> And banded (veinlets)

<<Vein: 319.5 - 320 5% Calcite 60 deg. >> Carbonate veinlet set ~3/m - beta 160

<<Vein: 320.05 - 320.16 90% Calcium carbonate/Carbonate 50 deg. >> Calcite-quartz-tourmaline vein cross-cutting foliation, minor py

320.90 322.71 RHYcf Feldspar & quartz phyric rhyolite

320.9 - 322.71: Pale green (more intermediate composition), fine grained, rare lapilli (calcite altered) and rare subangular feldspar phenocrysts (matrix supported), chlorite content increases at lower contact, pyrrhotite (2%)-anhedral disseminated PY (2%), qtz-tourmaline veinlets (shallow angle to core axis); bleaching over 5 cm. Possibly part of the Wind Lake Formation.

<<Min: 320.9 - 322.71 2% Min: Pyrrhotite>> rare patches

<<Alt: 320.9 - 332.06 Weak-Moderate Calcite>> Locally patchy and wispy in MDSc

<<Vein: 321.09 - 321.1 100% Quartz 30 deg. >> Quartz vein. Beta 250.

<<Vein: 321.1 - 321.11 100% Tourmaline-Sulphide 30 deg. >> Tourmaline veinlet, minor py, beta 130

322.71 332.06 MDSc Carbonaceous dominant mudstone

322.71 - 332.06: Black-wispy white, fine grained, carbonaceous-calcareous (patchy) pods disseminated and along foliation, gougy-brecciated from 227.74m to 328.75m (30 cm MAFta at lower contact)-euhedral fine grained py.

<<Min: 322.71 - 332.06 0.1% Min: Pyrrhotite>> and associated with qtz vein

<<Struc: 322.71 - 322.71 Contact>> RHYv/MDS

<<Struc: 325.85 - 325.85 dominant foliation>>

<<Struc: 327.74 - 328.75 Strong Fault>> 70% gouge, 30% clasts (up to 2cm, in mudstone and mafic tuff at lower contact-py disseminated and patch (1-2%)

<<Struc: 331.8 - 331.81 dominant foliation>>

332.06 338.32 RHYcf Feldspar & quartz phyric rhyolite

332.06 - 338.32: Light grey-green, peppery biotite (20%), poorly sorted, medium to low strained, coarse lapilli (less probably phenos) in fine grained tuffaceous matrix. Locally pelitic material, fine grain biotite-calcite (from 336.91m to 337.16m and 337.80m to 328.32m).

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 332.06 - 338.32 0.5% Min: Pyrrhotite>>

<<Alt: 332.06 - 348.9 Weak-Moderate Calcite>> Replacing lapilli/crystals

338.32 348.90 RHYif Feldspar and quartz porphyry intrusion

338.32 - 348.9: Light grey, 30% feldspar-quartz-quartz eyes phenocrysts partially calcite altered in aphanitic siliceous groundmass, locally crackle py infill, qtz veins surrounded by bleached halo, py in fractured and disseminated. Light yellow taint at upper contact, muscovite alteration. Possibly crystal tuff or RYYcf, patchy volcaniclastic texture predominantly surrounding qtz veins.(e.g. 344.64m to 344.91m).

<<Min: 338.32 - 348.9 1% Min: Pyrite>> and in fracture, goldy py

<<Min: 338.32 - 348.9 1% Min: Pyrrhotite>> and in fracture

<<Alt: 338.32 - 339.5 Moderate Muscovite>> Light yellow taint and silicified interval

<<Alt: 338.32 - 348.9 Strong Silicification>> Logged as RHYif, possibly silicified RHYcf

<<Vein: 339.34 - 339.35 100% Quartz-Pyrite 45 deg. >> Quartz-minor py

<<Vein: 340.03 - 340.06 100% Quartz 50 deg. >> Milky quartz vein

<<Vein: 341.6 - 341.64 100% Quartz 50 deg. >> Qtz pod, irregular vein

<<Vein: 344.2 - 344.3 90% Quartz-Carbonate 80 deg. >> Milky and glassy quartz-calcite vein

348.90 351.72 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

348.9 - 351.72: Black to dark brown, fine to very fine grained biotite-wispy to banded calcite + calcite in matrix, (20%) thinly foliated, sharp contacts.

<<Min: 348.9 - 351.72 0.1% Min: Pyrite>> rare in qtz vein, associated with po

<<Min: 348.9 - 351.72 0.5% Min: Pyrrhotite>> and in qtz-calcite vein

<<Alt: 348.9 - 351.72 Moderate Calcite>> And in veinlets, locally strong (5)

<<Vein: 350.36 - 350.51 90% Quartz-Carbonate-Sulphide 70 deg. >> Glassy qtz-calcite-po-minor py

<<Struc: 348.9 - 348.9 Contact>> RHYif (or RHYcf)/PEL

<<Struc: 349 - 349.01 dominant foliation>>

351.72 354.83 RHYif Feldspar and quartz porphyry intrusion

351.72 - 354.83: Light grey, feldspar-quartz-rare blue qtz eyes/phenocrysts partially calcite altered in aphanitic groundmass, locally crackled-py infill. Rare interval showing volcaniclastic texture, glassy and milky multiphase quartz-carbonate veins (py-po-possibly trace galena). This unit could be a silicified crystal tuff, RHYcf.

<<Min: 351.72 - 354.93 1% Min: Pyrite>> and in fracture

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 351.72 - 366.43 0.1% Min: Pyrrhotite>> in qtz-calcite vein and in thin fracture

<<Min: 352.65 - 353.7 0.1% Min: Galena>> rare galena associated with multiphase qtz(milky and glassy)-calcite vein

<<Alt: 351.72 - 354.83 Strong Silicification>> Logged as RHYif, possibly silicified RHYcf

<<Alt: 351.72 - 354.83 Weak-Moderate Calcite>> Replacing partially lapilli/crystals

<<Vein: 351.95 - 352 95% Quartz-Sulphide 70 deg. >> Multiphase qtz vein-glassy and milky, po associated with glassy texture, minor py, trace calcite trace - beta 40

<<Vein: 352.07 - 352.09 98% Quartz-Sulphide 70 deg. >> Glassy qtz-minor py - beta 250

<<Vein: 352.13 - 352.15 98% Quartz-Sulphide 70 deg. >> Glassy qtz, minor py - beta 260

<<Vein: 352.5 - 352.52 100% Quartz-Sulphide 75 deg. >> Glassy qtz-minor sulfide, including trace py - beta 250

<<Vein: 353.65 - 363.7 95% Quartz-Sulphide 80 deg. >> Multiphase qtz vein; milky and late glassy qtz-calcite, minor sulfide including py and trace galena.

354.83 356.00 PEL **Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts**

354.83 - 356: Black to dark brown, very fine grained biotite-calcite, veinlet set (6/m), thinly foliated, sharp upper and lower contacts.

<<Min: 354.93 - 356 0.1% Min: Pyrite>>

<<Alt: 354.83 - 356 Moderate-Strong Calcite>> And veinlets

356.00 357.97 RHYif **Feldspar and quartz porphyry intrusion**

356 - 357.97: Light grey-beige, feldspar-quartz phenocrysts in aphanitic groundmass, medium strained, partially calcite altered, locally crackle texture, py disseminated and patchy. Possibly silicified crystal tuff, porphyroblastic, RHYcf.

<<Min: 356 - 357.93 1% Min: Pyrite>> also in quartz vein and in fracture

<<Min: 357.93 - 366.43 0.1% Min: Pyrite>>

<<Alt: 356 - 357.97 Moderate-Strong Silicification>> Logged as RHYif, possibly silicified RHYcf

<<Alt: 356 - 366.43 Weak Calcite>> Replacing partially lapilli/crystals

357.97 363.71 RHYcf **Feldspar & quartz phyric rhyolite**

357.97 - 363.71: Light grey, locally gougy- fractured-faulted, possibly healed fault zone or damaged zone, crystal/lapilli fragments (?), aggregated blue qtz eyes, pinkish crystals (kspar ?) from 359.95 m to 363.71 m. Could be reworked crystal tuff, moderately silicified or RHYcf, locally aphanitic texture. Possible chill margin at lower contact suggesting intrusion in lithified environment, with bleached texture, finer grained, faded crystal or lapilli ghosts.

<<Struc: 357.97 - 363.4 Moderate Fault>> Narrow gouge interval and fault zone (damage zone ?)

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

363.71 365.14 MAFt Undifferentiated mafic volcaniclastic

363.71 - 365.14: Green-grey, medium to fine grained, chl-calcite-sericite, very poorly foliated, strongly bleached (beige-pale yellow colour at upper contact[chill margin aspect over 40 cm]), biotite at lower contact and biotite ghost in bleaching.

365.14 366.43 MAFt Undifferentiated mafic volcaniclastic

365.14 - 366.43: Light green-interval including 30 cm of MDS, medium to fine grained, silicified and possibly lapillitic at upper contact (py aggregated), calcite veining, biotite crystal ghost (bleached). Transition zone showing possibly interfingered units dominantly mafic-tuffaceous (altered).

366.43 378.83 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

366.43 - 378.83: Dark blue-black, very fine grained, thin foliation, graphitic-siliceous, wispy to banded calcite, fine grained py discontinuous foliaform veinlets, po along the foliation seems to be associated with well banded calcite interval. Narrow (less than 10 cm) MAFt intervals intercalated; Strong conductivity tested with multimeter.

<<Min: 366.43 - 378.83 2% Min: Pyrite>> along the foliation and fracture infill

<<Min: 366.43 - 379.2 0.5% Min: Pyrrhotite>>

<<Alt: 366.43 - 379.88 Weak-Moderate Calcite>> and replacement.

<<Vein: 369.6 - 369.9 40% Quartz-Carbonate 60 deg. >> Three quartz-calcite vein/pods

<<Struc: 367.9 - 367.91 dominant foliation>>

<<Struc: 367.94 - 368.1 Weak-Moderate Fault>> narrow brecciated interval, clasts up to 3cm wide-lithic fragments

<<Struc: 372.8 - 373 Weak Fault>> minor fault gouge interval

<<Struc: 373.9 - 373.91 dominant foliation>>

<<Struc: 376.15 - 376.34 Weak Fault>> minor fault gouge interval

378.83 379.88 MAFt Undifferentiated mafic volcaniclastic

378.83 - 379.88: Light green-grey, fine grained-locally lapillitic, poorly foliated, silicified in the centre of the unit, fine grained po elongated along the foliation (up to 5%), calcite veinlets and patchy-weakly faulted at upper contact (1-2cm gouge).

<<Min: 378.83 - 379.1 5% Min: Pyrite>> py dominantly at upper contact of the unit, po from 379.10 to lower contact.

<<Min: 379.1 - 379.88 0.5% Min: Pyrite>>

<<Min: 379.2 - 379.88 5% Min: Pyrrhotite>> along the foliation

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 378.83 - 378.86 Weak Fault>> minor gouge at contact between MAFt and MDS

379.88 386.91 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

379.88 - 386.91: Black-dark blue, fine grained to very fine grained, carbonaceous-moderately calcareous, moderately siliceous, thin foliation, rare quartz veins showing vuggy to drusy texture, narrow MAFt interval (up to 10 cm wide), elongated fine grained disseminated py (2%), rare po; weakly faulted at lower contact (30 cm clay gouge), strongly graphitic-broken zone-weak gouge from 382.80m to 386.65m

<<Min: 379.88 - 386.91 2% Min: Pyrite>> along foliation

<<Min: 379.88 - 427.5 0.5% Min: Pyrrhotite>> and in qtz-calcite veins

<<Alt: 379.88 - 386.91 Weak Calcite>>

<<Vein: 380.14 - 380.4 30% Quartz-Carbonate 50 deg. >> Quartz-calcite veins, weakly vuggy, multiphase

<<Vein: 386.9 - 390.4 5% Quartz-Carbonate 65 deg. >> Multiple veinlet sets averaging 10-15/m in MAFt

<<Struc: 384.5 - 387.5 Weak-Moderate Fault>> multiple gougy intervals up to 30 cm wide in strongly graphitic unit, damaged zones, minor faulting

386.91 390.75 MAFt **Undifferentiated mafic volcaniclastic**

386.91 - 390.75: Light grey-green, medium to fine grained, poorly foliated, calcite veinlet set (15/m), strongly calcareous (matrix), chloritic, rare biotite specks, homogeneous, weakly faulted at lower contact.

<<Min: 386.91 - 390.75 0.1% Min: Pyrite>>

<<Alt: 386.91 - 390.75 Strong Calcite>> in matrix and clasts replacement.

<<Struc: 390.2 - 391.7 Weak-Moderate Fault>> damaged zone showing light shearing, possibly reactivated structure, lithic fragments

390.75 392.75 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

390.75 - 392.75: Black-dark blue, very fine grained, graphitic, siliceous, weakly calcareous (wavy veinlets), weakly faulted (up to 10 cm sandy [70%-clay, 30% gouge]), possible lithic fragments; rare qtz-calcite veins (up to 3 cm wide); disseminated py and fine grained py train along the foliation.

<<Min: 390.75 - 392.75 2% Min: Pyrite>> along the foliation and in thin fracture

<<Alt: 390.75 - 393.8 Weak-Moderate Calcite>>

<<Vein: 392.25 - 392.4 20% Quartz-Carbonate 85 deg. >> Two quartz-calcite veins, py in selvage

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

392.75 393.80 MAFt **Undifferentiated mafic volcaniclastic**

392.75 - 393.8: Light grey-green, fine grained, heterogeneous composition (locally strongly calcareous); quartz-calcite veins-deformed/irregular; interval including MDS sliver, disseminated and elongated py and lesser po.

<<Min: 392.75 - 393.8 0.5% Min: Pyrite>>

393.80 399.40 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

393.8 - 399.4: Black-dark blue, fine grained, poorly foliated, blebby calcite patches and veinlets (20%), locally siliceous, late wispy py and fine grained py train or fracture infill, rare po, poss. galena in quartz-calcite fracture (remobilization ?); narrow gougy interval (20 cm), possible lithic fragments.

<<Min: 393.8 - 403.5 2% Min: Pyrite>> dominantly in thin fracture and disseminated; also observed associated with talc, coarse grain euhedral py (unusual)-possible open fracture.

<<Min: 395.5 - 395.55 0.1% Min: Galena>> possibly galena in quartz-calcite-py vein/pod

<<Alt: 393.8 - 427.5 Moderate Calcite>> and up to 50% calcite over 1 m in patches, limestone relics (?) possibly lithic fragments.

<<Vein: 395.5 - 395.55 80% Quartz-Carbonate-Sulphide>> Deformed qtz-calcite vein or pod, 10% py, possibly trace galena

<<Vein: 399.38 - 401.05 10% Quartz-Carbonate>> Multiple quartz-calcite (70%) veins, unusual talc associated with coarse grain euhedral py at 400.55 m

<<Struc: 396 - 396.4 Weak Fault>> fault gouge, 50% clay/50% mudstone clasts

<<Struc: 397.85 - 397.86 dominant foliation>>

399.40 399.91 MAFt **Undifferentiated mafic volcaniclastic**

399.4 - 399.91: Light green, biotite porphyroblasts (5%), chlorite-calcite (30%), calcite veinlets and pods, fine grained disseminated po (1%), patchy py (0.5%), gradational contacts.

399.91 403.84 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

399.91 - 403.84: Dark blue, fine grained, poorly foliated, blebby calcite, quartz-calcite vein (3 to 5 cm wide, 3/m), fine grain-elongated py-po (1%). Unusual talc in fracture associated with coarse grained euhedral goldy py at 400.60m.

<<Min: 403.5 - 404.42 0.1% Min: Pyrite>>

<<Vein: 402.47 - 402.55 90% Quartz-Carbonate 80 deg. >> Quartz-calcite veins/pods, irregular, alpha 80 at lower contact, chlorite inclusion.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 403.5 - 403.55 90% Quartz-Sulphide 80 deg. >> Quartz-calcite veins/pods, irregular, alpha 80 at lower contact

<<Struc: 400.9 - 400.91 dominant foliation>>

403.84 404.42 MAFt Undifferentiated mafic volcaniclastic

403.84 - 404.42: Light green, fine to medium grained, calcite band and patches, biotite porphyroblastic trains, calcite replaced mineral or clasts (<1 mm wide) at lower contact (late, porphyroblastic); gradational contacts.

404.42 427.50 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

404.42 - 427.5: Dark grey-blue-pale green, fine grained, locally chloritic (mixed with mafic material), poorly foliated, moderately to strongly graphitic, blebby calcite patches and wispy locally up to 50% (limestone mixed?/lithic fragments - from 422.00m to 422.70m), quartz veins (up to 10 cm wide) containing po-py-poss. trace cpy, rare medium grained euhedral py observed in vug; narrow gougy interval (weak fault intensity); secondary foliation observed (crenulation on the primary foliation) as well as fold noses.

<<Min: 404.42 - 427.5 1% Min: Pyrite>> and disseminated

<<Min: 411.2 - 411.25 0.1% Min: Chalcopyrite>> associated with po, possibly chalcopyrite

<<Vein: 407.88 - 407.92 95% Quartz-Carbonate 85 deg. >> Quartz-calcite vein, milky white

<<Vein: 409 - 411.5 15% Quartz-Carbonate-Sulphide>> Multiple quartz-calcite vein/pods averaging 10 cm wide. At 411.20 m, py-po-possibly cpy occurs.

<<Vein: 413.9 - 415.46 30% Quartz-Carbonate>> Quartz-calcite, calcite pods or veins averaging 10 cm wide, fractured, off white, containing mudstone slivers.

<<Struc: 408.2 - 408.8 Weak-Moderate Fault>> weak shearing and minor gouge interval

<<Struc: 409.85 - 409.86 Foliation>> late foliation, calcite veining crenulated possibly primary structure

<<Struc: 411.65 - 411.66 dominant foliation>>

<<Struc: 414 - 414.35 Weak Fault>> minor fault gouge, 20% clay/80% mudstone clasts

<<Struc: 416 - 416 Orientation Lock Angle>> Lock angle between orientation mark at 416 m and 419 m.

<<Struc: 417.25 - 417.26 dominant foliation>>

427.50 432.05 MAFt Undifferentiated mafic volcaniclastic

427.5 - 432.05: Dark green-grey, fine grained matrix, poorly to non foliated, white medium grained possibly calcite replaced crystals (10-20%), randomly oriented; from 427.50m to 428.00m (upper contact), light grey, fine grained, 10% medium grained moderately elongated po, 1% po under this interval. Finer grain over 30 cm at lower contact.

<<Min: 427.5 - 428 10% Min: Pyrrhotite>> po concentrated at upper part of the unit

<<Min: 427.5 - 432.05 0.1% Min: Pyrite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 428 - 432.05 0.5% Min: Pyrrhotite>>

<<Alt: 427.5 - 432.05 Moderate-Strong Calcite>> and in matrix

<<Struc: 427.5 - 427.51 dominant foliation>>

<<Struc: 428 - 428 Orientation Lock Angle>> continuous orientation line from 428 to 431

<<Struc: 429.5 - 429.51 dominant foliation>>

432.05 435.38 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

432.05 - 435.38: Black-dark blue, fine grained, thinly foliated, strongly graphitic, moderately siliceous, weak to moderate calcite banded; elongated po (2%); from 432.47m to 432.50m, narrow mafic tuff sliver (fine grain-ash);

<<Min: 432.05 - 435.38 3% Min: Pyrite>>

<<Min: 432.05 - 435.38 1% Min: Pyrrhotite>> elongated along foliation

<<Alt: 432.05 - 435.39 Moderate Calcite>> and veinlets

<<Struc: 435.1 - 435.11 dominant foliation>>

435.38 443.46 MAFt Undifferentiated mafic volcaniclastic

435.38 - 443.46: Dark grey-green, fine grained, poorly to non foliated, strongly calcareous (20-30%), white fine to medium grained subangular possibly carbonate altered crystals (feldspar), rare biotite, py-po (1 to 3% locally); very fine grained and po rich at upper contact (gradational), more calcite banding - light green - also po rich at lower contact (sharp).

<<Min: 435.38 - 443.46 0.1% Min: Pyrite>> in qtz-calcite vein, disseminated py not observed

<<Min: 435.38 - 443.46 3% Min: Pyrrhotite>> elongated - up to 5% in some intervals

<<Alt: 435.39 - 443.46 Strong Calcite>> matrix and replacement

<<Vein: 437.3 - 437.31 90% Quartz-Carbonate-Sulphide 35 deg. >> Qtz-calcite-py infill, beta 250

<<Struc: 435.38 - 435.38 Contact>>

<<Struc: 437 - 437 Orientation Lock Angle>> lock angle between orientation line at 437 and 440

<<Struc: 437.35 - 437.36 Vein>> qtz-calcite-py veinlet

443.46 444.65 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

443.46 - 444.65: Black-dark blue, fine grained, poorly foliated, strongly graphitic-moderately siliceous, rare calcite veinlets; disseminated-elongated py at upper contact over 10 cm (3%); sharp contacts.

<<Min: 443.46 - 444.65 0.5% Min: Pyrite>> at lower contact

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 443.46 - 444.65 0.1% Min: Pyrrhotite>>

<<Alt: 443.46 - 444.65 Weak-Moderate Calcite>> and veinlets

444.65 447.20 MAFt Undifferentiated mafic volcaniclastic

444.65 - 447.2: Light green-grey, fine grained, poorly to non foliated, calcareous (20%), rare calcite bands, po disseminated (2-3%); from 445.60m to 445.86m, carbonaceous interval with probably tuffaceous material input; lower contact marked by 10 cm glassy quartz-calcite-po (possibly chalcopyrite trace) vein, irregular-wavy "sawtooth" contact, coarser po grains, pale yellow colour.

<<Min: 444.65 - 447.2 0.1% Min: Pyrite>>

<<Min: 444.65 - 447.2 5% Min: Pyrrhotite>> locally 15% (at lower contact)

<<Min: 447.1 - 447.15 0.1% Min: Chalcopyrite>> possibly cpy associated with po

<<Alt: 444.65 - 447.2 Moderate-Strong Calcite>> matrix and replacement

<<Vein: 447.1 - 447.15 90% Quartz-Carbonate-Sulphide>> Vein or pod, glassy qtz-calcite-po-possibly cpy

<<Struc: 444.65 - 444.65 Contact>>

<<Struc: 445.8 - 445.81 Foliation>> averaging, foliation not well marked

447.20 449.09 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

447.2 - 449.09: Black-dark blue, fine grained, poorly foliated, graphitic-siliceous, weakly calcareous (veinlets and rare bands), elongated py dominantly - po disseminated and in fracture; wavy, sawtooth upper and lower contacts.

<<Min: 447.2 - 449.09 3% Min: Pyrite>>

<<Min: 447.2 - 449.09 2% Min: Pyrrhotite>> and disseminated (concentrated at upper contact)

<<Alt: 447.2 - 449.09 Weak Calcite>>

449.09 450.22 MAFt Undifferentiated mafic volcaniclastic

449.09 - 450.22: Green-grey, fine grained, poorly to non foliated, weakly calcareous-possible calcite replaced crystals, disseminated po (up to 5%), fine grained py in fracture/veinlets and medium grain euhedral py (open space); gradational lower contact.

<<Min: 449.09 - 450.22 1% Min: Pyrite>> also in thin veinlets and rare euhedral py aggregated in fracture, medium grain (open space)

<<Min: 449.09 - 450.22 5% Min: Pyrrhotite>> elongated fine grain

<<Alt: 449.09 - 450.22 Weak-Moderate Calcite>>

From (m)	To (m)	Rocktype & Description
450.22	**459.90**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

450.22 - 459.9: Black-dark blue, interval marked by massive glassy quartz-lesser carbonate veins, moderately fractured, containing graphitic inclusion, locally weakly faulted (up to 1 m wide); locally foliation, strongly deformed-kinked (?); patchy blebby calcite interval (up to 20 cm wide), disseminated py and py-po in fracture/irregular veinlets; rare mafic input

<<Min: 450.22 - 461.58 2% Min: Pyrite>> and rare patch

<<Min: 450.22 - 461.58 0.5% Min: Pyrrhotite>> also concentrated in mafic interval (up to 10%) - dominantly rare po

<<Alt: 450.22 - 461.58 Weak-Moderate Calcite>> heterogeneous, from weak to strong-qtz-carbonate veins

<<Vein: 450.47 - 455.68 70% Quartz-Carbonate>> Interval marked by bull qtz vein-lesser calcite in fracture and patch, up to 1 m wide representing 70% of the interval

<<Vein: 458.5 - 468 5% Quartz-Carbonate>> Qtz-calcite vein-pod representing 5% of the interval

<<Struc: 451 - 474 Moderate-Strong Vein>> large interval including bull quartz-calcite vein up to 1m wide, deformed foliation, crenulation cleavage and kinked nods (?), secondary foliation well developed locally, weak boudinage - mudstone hosted

<<Struc: 458 - 458 Orientation Lock Angle>> lock angle between orientation line at 458 and 461

<<Struc: 458.1 - 458.11 Foliation>>

From (m)	To (m)	Rocktype & Description
459.90	**461.58**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

459.9 - 461.58: Black-dark blue graphitic-siliceous mudstone and green-grey fine grained mafic-chloritic material intercalated (50/50); minor calcite, quartz-calcite pods; elongated po in mafic (3-5%), disseminated-aggregated po in mudstone, possibly trace chalcopyrite.

<<Min: 460.08 - 460.09 0.1% Min: Chalcopyrite>> possibly cpy associated with po

From (m)	To (m)	Rocktype & Description
461.58	**462.54**	**MAFt** **Undifferentiated mafic volcaniclastic**

461.58 - 462.54: Light green-grey, fine grained, poorly to non foliated, weakly calcareous, irregular quartz-lesser calcite veins-pods locally containing graphitic inclusion; elongated po (10-15%)

<<Min: 461.58 - 462.54 0.1% Min: Pyrite>>

<<Min: 461.79 - 462.54 10% Min: Pyrrhotite>> elongated and stringer style around quartz veins

<<Alt: 461.58 - 462.54 Weak Calcite>> associated with qtz-carbonate veins

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
459.18	459.90	0.72	B00267824	-0.005	-0.3	0.01	-0.01	-0.01
459.90	461.00	1.10	B00267825	0.007	0.5	0.03	-0.01	0.02
461.00	461.58	0.58	B00267826	0.009	-0.3	0.01	-0.01	0.01
461.58	462.54	0.96	B00267827	-0.005	0.8	0.02	-0.01	0.02

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
462.54	**470.40**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**									
		462.54 - 470.4: Black-dark grey, fine grained, poorly foliated, graphitic-siliceous, weakly calcareous; interval marked by massive quartz-carbonate veins, locally deformed/fractured (weakly brecciated); dominantly py (2%), disseminated and elongated patchy po (1%); mafic-po rich interval from 469.30 m to 469.50 m.									
		<<Min: 462.54 - 470.4 2% Min: Pyrite>> and associated with po in deformed discontinuous veinlets									
		<<Min: 462.54 - 470.4 0.5% Min: Pyrrhotite>> deformed discontinuous veinlets									
		<<Min: 470 - 472.01 0.1% Min: Chalcopyrite>> possibly chalcopyrite or bright yellow py associated with po and grey tarnish py									
		<<Alt: 462.54 - 470.4 Weak-Moderate Calcite>> associated with qtz-carbonate veins and foliaform veinlets									
		<<Vein: 464.35 - 468.9 40% Quartz-Carbonate>> Bull qtz-calcite vein representing 40% of the interval									
470.40	**471.69**	**MAFt** **Undifferentiated mafic volcaniclastic**	470.40	471.00	0.60	B00267828	-0.005	1.6	0.07	-0.01	0.02
		470.4 - 471.69: Light green-grey, fine grained (sericite-chlorite), poorly to non foliated, calcite patches and veinlets; including 10 cm of graphitic mudstone; weakly faulted at upper contact (3 cm gouge); disseminated po (15 to 20%), dominantly elongated,									
		<<Min: 470.4 - 471.69 0.1% Min: Pyrite>> concentrated in rare mudstone interval	471.00	471.69	0.69	B00267829	0.006	1.4	0.03	-0.01	0.02
		<<Min: 470.4 - 471.69 10% Min: Pyrrhotite>> elongated, fine grain									
		<<Alt: 470.4 - 471.69 Weak-Moderate Calcite>> calcite veinlets, rare patches									
471.69	**493.53**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**	471.69	472.40	0.71	B00267831	0.01	1.6	0.07	-0.01	-0.01
		471.69 - 493.53: Black-dark blue, fine grained, poorly foliated, graphitic-siliceous-weakly to moderately calcareous (patchy calcite and rare veinlets); po rich, patchy-clastic (?)-py in pressure shadows (associated with quartz blebs/clasts), possibly trace chalcopyrite at upper contact; dominantly elongated disseminated py (2-3% over the unit), lesser disseminated po; from 472.38 m to 472.68 m, mafic-po rich (10-15%) interval showing irregular-sawtooth contacts, possibly folded and marked by finer grained (1 cm wide-margin or primary bedding ?) band at lower contact, possibly kinked (?). Quartz-carbonate massive-semi massive vein/pod over 30 cm.									
		<<Min: 471.69 - 495.3 3% Min: Pyrite>> possibly up to 5%	472.40	473.00	0.60	B00267832	0.009	0.5	0.04	-0.01	0.02
		<<Min: 471.69 - 495.3 0.5% Min: Pyrrhotite>> concentrated in mafic interval, 0.1% to trace disseminated in mudstone	482.00	483.00	1.00	B00267833	0.01	1.1	0.04	0.01	0.05
		<<Alt: 471.69 - 500 Weak-Moderate Calcite>> heterogeneous, locally moderate									
		<<Vein: 473.22 - 473.6 75% Quartz-Carbonate>> Qtz-calcite vein/pod									
		<<Vein: 479.16 - 479.33 90% Quartz-Carbonate-Sulphide 60 deg. >> Qtz-calcite vein, trace py, vuggy to drusy texture, fractured.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Struc: 475.2 - 475.21 Foliation>> secondary foliation									
		<<Struc: 478.65 - 478.66 Foliation>> secondary foliation									
		<<Struc: 487 - 487 Foliation>>									
		<<Struc: 492.7 - 492.71 dominant foliation>>									
493.53	**494.07**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**									
		493.53 - 494.07: Light green-grey, fine to very fine grained, calcite banded, heterogeneous, poorly foliated-weakly vuggy, sericite-chlorite-calcite in matrix; late very fine grained py veinlet cross-cutting calcite and quartz-calcite veinlets; po disseminated-trace cpy; py in fracture cross-cutting calcite bands-fracture cross-cutting lower contact with graphitic mudstone (late structure); irregular-sawtooth contacts;									
494.07	**495.30**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**									
		494.07 - 495.3: Black-dark blue, fine grained, graphitic-siliceous, weakly calcareous, poorly foliated; elongated disseminated py (2%) and in thin fracture.									
495.30	**495.94**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**									
		495.3 - 495.94: Beige to pale green, very fine grained or bleached texture at upper contact, specks of to elongated po; black mudstone inclusion associated with fine grained py and po, (possibly trace cpy) concentrated on the margin of the xenolith, sawtooth contact; po dominantly at upper and lower contact.									
		<<Min: 495.3 - 495.94 10% Min: Pyrrhotite>> and patchy									
		<<Min: 495.3 - 508 3% Min: Pyrite>>									
495.94	**508.00**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**	499.06	500.00	0.94	B00267851	0.007	-0.3	0.02	-0.01	0.01
		495.94 - 508: Black-dark grey, fine grained, poorly to non foliated, graphitic-siliceous, locally moderately calcareous (patches); faulted from 501.80m to 507.00m, clay-sandy gouge in some interval up to 30 cm wide, locally fault breccia; rare narrow light green-grey mudstone intervals (mafic material ?); disseminated and discontinuous wavy veinlets of py; crenulation cleavage in some intervals. Strong conductivity tested with multimeter.									
		<<Min: 495.94 - 508 1% Min: Pyrrhotite>>	500.00	500.72	0.72	B00267852	0.022	-0.3	0.01	-0.01	-0.01
		<<Alt: 500 - 526.03 Moderate Calcite>> and calcite veinlets	500.72	501.31	0.59	B00267853	0.012	0.3	0.02	-0.01	-0.01
		<<Struc: 498 - 498.3 Weak Fault>> minor fault									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Struc: 502.4 - 506.5 Moderate Fault>> multiple fault gouge zone and fault breccia representing 40% of the interval; clasts up to 3cm wide, 20% clay; damaged zone									
		<<Struc: 507.9 - 507.91 dominant foliation>>									
508.00	**509.96**	**MAFt** **Undifferentiated mafic volcaniclastic**	508.00	508.64	0.64	B00267854	-0.005	1.6	0.02	-0.01	0.02
		508 - 509.96: Unusual unit showing a sharp change at 509.36 m; grey-green at upper contact, fine grained matrix, abundant po (15%), turning to dark grey-green, calcareous-probably chloritic-black specks (biotite (?), disseminated po (2-3%), non foliated, possibly mafic dyke (?) containing small crystal (<1 mm) or just unconformity between two similar unit marked by a thin calcite veinlet at 509.36 m (phase of sedimentation interrupted-phase of erosion); from 509.36 m to 509.96 m, fine grained matrix and abundant po (20%), light pinkish to light grey, sharp-sawtooth lower contact, meta sandstone (?).									
		<<Min: 508 - 509.96 0.5% Min: Pyrite>> in fracture	508.64	509.37	0.73	B00267855	0.006	-0.3	-0.01	-0.01	0.02
		<<Min: 508 - 509.96 10% Min: Pyrrhotite>> locally up to 25%	509.37	509.95	0.58	B00267856	-0.005	1.5	0.03	-0.01	0.02
		<<Vein: 508 - 509.36 2% Quartz-Carbonate 70 deg. >> Calcite-quartz veinlets, 4/m - averaging angle									
509.96	**526.03**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**									
		509.96 - 526.03: Black-dark grey, fine grained, poorly foliated locally deformed, graphitic-siliceous, locally moderately to strongly calcareous (patches 5-10% calcite); disseminated py (averaging 2%), disseminated-elongated po (averaging 2%).									
		<<Min: 509.96 - 526.03 2% Min: Pyrite>>									
		<<Min: 509.96 - 526.03 1% Min: Pyrrhotite>> aggregated and associated with calcite bands									
		<<Struc: 511.9 - 513 Moderate Fault>> friable, sandy-gravelly, strongly graphitic interval									
		<<Struc: 514 - 514.01 dominant foliation>>									
		<<Struc: 517.8 - 517.81 dominant foliation>>									
		<<Struc: 525.5 - 525.51 Foliation>> secondary foliation, crenulation cleavage at 525.80m									
526.03	**537.32**	**MAFt** **Undifferentiated mafic volcaniclastic**									
		526.03 - 537.32: Medium green-grey, fine grained to very fine grained matrix, chloritic to moderately calcareous; locally, sub angular, medium grained, white mineral replaced by calcite (feldspar); very poorly to non foliated; graphitic mudstone intervals from 531.10 m to 531.47 m (quartz-calcite at lower contact, weakly brecciated) and from 433.09 m to 533.35 m; abundance of bull quartz (lesser calcite-rare sulfides) veins from 532 m to 536 m (representing 50% of the interval); density of calcite specks are variable and locally sharp texture change, possibly MAFi.									
		<<Min: 526.03 - 537.32 0.5% Min: Pyrite>> rare py patch in massive quartz vein									
		<<Min: 526.03 - 537.32 1% Min: Pyrrhotite>> patch of disseminated elongated po (lithology controlled) and patch in massive quartz-calcite vein									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 526.03 - 537.32 Moderate Calcite>> and calcite replacing possibly feldspar									
		<<Vein: 532 - 536 50% Quartz-Carbonate-Sulphide>> Massive bull quartz-lesser calcite-sulfides (dominantly po)									
		<<Struc: 526.03 - 526.03 Contact>> contact between mudstone and mafic unit									
		<<Struc: 526.8 - 526.8 Contact>> contact between two texture in mafic unit									
537.32	**538.62**	**MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone** 537.32 - 538.62: Dark blue-black, fine grained, siliceous on the upper part, light green thin bands on the lower part (sericite), disseminated py (1%), disseminated po (1%), patchy po over 15 cm at lower contact, trace calcite; gradational lower contact	538.08	538.62	0.54	B00267834	0.005	2.4	0.04	-0.01	0.03
		<<Min: 537.32 - 538.62 1% Min: Pyrite>> fine grain py, rare euhedral medium grain py in surface plane									
		<<Min: 537.32 - 538.62 1% Min: Pyrrhotite>> elongated									
		<<Alt: 537.32 - 538.62 Trace Calcite>>									
		<<Struc: 537.5 - 537.51 dominant foliation>>									
538.62	**542.42**	**MAFt Undifferentiated mafic volcaniclastic** 538.62 - 542.42: Medium green, light pink-grey at lower contact, fine grained, poorly to non foliated, chlorite-calcite (10-15%), possibly fine crystals altered to calcite, rare carbonate veinlets, elongated trace py, po concentrated at lower contact. Texture change at 541.90 (fractured-"crackled" aspect).									
		<<Min: 538.62 - 542.42 0.1% Min: Pyrite>>									
		<<Min: 538.62 - 542.42 0.5% Min: Pyrrhotite>> elongated									
		<<Alt: 538.62 - 542.42 Moderate-Strong Calcite>> and calcite replacing crystals									
542.42	**561.87**	**MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone** 542.42 - 561.87: Dark blue-black, fine grained, variable texture from thinly foliated to ptygmatic, crenulated cleavage, breccia; from strongly graphitic to calcareous (40% calcite in some interval); dominant texture: deformed and crenulation cleavage; faulted-brecciated from 551.30m to 552.13m, clasts up to 3 cm wide; elongated disseminated po									
		<<Min: 542.42 - 571 2% Min: Pyrite>>									
		<<Min: 542.42 - 571 0.5% Min: Pyrrhotite>> average percentage; locally associated with calcite and cpy; also concentrated in narrow mafic interval (up to 10% po observed)									
		<<Min: 558 - 581 0.1% Min: Chalcopyrite>> dominantly associated with po and calcite patch in mudstone; e.g. at 573.04 m									
		<<Alt: 542.42 - 571 Moderate Calcite>> locally strong									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 547.8 - 547.81 dominant foliation>>

<<Struc: 551.3 - 552.13 Moderate-Strong Fault>> fault gouge (40% clay) and brecciated at lower contact (healed; angular mudstone clasts up to 5cm wide, primary foliation relics, clast supported.

<<Struc: 553.4 - 553.41 dominant foliation>>

<<Struc: 559.5 - 559.51 dominant foliation>>

<<Struc: 560 - 560 Orientation Lock Angle>> full run between 560m to 563m

561.87 562.57 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

561.87 - 562.57: Dark blue/white, mosaic texture, clast-supported breccia marked by well developed tourmaline fan (possibly more than 50%) - mudstone clasts in calcareous matrix; probably restricted to a small area but could be a marker unit.

<<Struc: 561.87 - 562.57 Moderate-Strong Fault>> breccia; mosaic texture, angular mudstone clasts up to 3cm wide, well developed tourmaline (fan up to 2cm wide).

562.57 569.20 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

562.57 - 569.2: Black-dark grey, fine grained, graphitic - moderately siliceous-calcareous (10-20%), possible lithic fragments in some intervals; disseminated and patchy po-py, possibly trace cpy associated with po; crenulation cleavage well developed from 565.00 to 564.50m; narrow interval of mafic material at 559.80m (8 cm wide) containing py-po and possibly cpy.

<<Struc: 565.8 - 565.81 Foliation>> foliated not well marked, possibly secondary

569.20 569.62 MAFt Undifferentiated mafic volcaniclastic

569.2 - 569.62: Light grey-green, fine grained, weakly foliated, containing train of bi porphyroblasts, elongated disseminated po, py (0.5%) and trace cpy; contact marked by quartz-carbonate vein (5 to 10 cm wide) and mudstone inclusion; upper contact suggests that the mafic unit cross-cut the mudstone raft, could be just two different beds.

<<Vein: 569.2 - 569.62 10% Quartz-Carbonate>> Two 10 cm qtz veins marking upper and lower contact between mudstone and mafic unit

569.62 571.00 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

569.62 - 571: Dark blue-dark grey, fine grained, crenulated foliation, graphitic-siliceous-calcareous (10-15% calcite); rare disseminated and small patches of py-po .

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
571.00	**573.79**	**MAFt** **Undifferentiated mafic volcaniclastic** 571 - 573.79: Light grey-green, fine grained, poorly foliated; calcite in veinlets and pods, abundant disseminated po and discontinuous veinlets (5 to 10%), py (2%), trace cpy; interval including mudstone from 572.51m to 573.07m; upper contact marked by qtz vein (2 cm wide), lower contact shows sawtooth texture and fold noses cross-cut along the core axis, wavy contact. <<Min: 571 - 573.79 1% Min: Pyrite>> in fracture and veinlets <<Min: 571 - 573.79 15% Min: Pyrrhotite>> and in veinlets <<Alt: 571 - 573.79 Weak-Moderate Calcite>> dominantly calcite veinlets									
573.79	**578.04**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone** 573.79 - 578.04: Black-dark blue, fine grained, dominantly wavy foliation, graphitic-siliceous-calcareous (10% calcite); trace patches of po-py-calcite-cpy, and elongated disseminated po- py (2-3%); qtz vein (2 cm) at upper contact, sharp-weak sawtooth texture at upper contact. <<Min: 573.79 - 578.04 1% Min: Pyrite>> <<Min: 573.79 - 578.04 2% Min: Pyrrhotite>> associated with calcite patches <<Alt: 573.79 - 615.16 Moderate Calcite>> irregular repartition-locally patchy <<Struc: 577.8 - 577.81 dominant foliation>>	576.00	577.04	1.04	B00267835	0.007	0.4	0.01	-0.01	0.02
			577.04	578.04	1.00	B00267836	0.006	0.4	0.02	-0.01	0.02
578.04	**578.99**	**MAFt** **Undifferentiated mafic volcaniclastic** 578.04 - 578.99: Light grey-beige, fine grained, very poorly to non foliated, more greenish and finer grained at contact; intermediate composition (sericite-chlorite-qtz-possibly albite); calcite veinlets and weak calcite in matrix; granular texture in the centre (possibly meta sandstone); abundant po (>10%), fine grained py in veinlet and disseminated; primary veinlets showing envelope cross-cut by qtz-carbonate vein (1 cm wide). <<Min: 578.04 - 578.9 1% Min: Pyrite>> fracture infill dominantly <<Min: 578.04 - 578.9 10% Min: Pyrrhotite>> <<Min: 578.9 - 580.1 5% Min: Pyrite>> <<Min: 578.9 - 580.1 3% Min: Pyrrhotite>>	578.04	578.96	0.92	B00267837	-0.005	2	0.07	-0.01	0.02
578.99	**580.10**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone** 578.99 - 580.1: Black-dark blue, fine grained, weakly foliated, graphitic-siliceous, weakly calcareous (calcite patch, 3%); fine grained disseminated py (3 to 5%), lesser po (1%); sharp upper contact, sawtooth texture at lower contact.									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

580.10 580.80 MAFt Undifferentiated mafic volcaniclastic

580.1 - 580.8: Light grey-green, fine grained, poorly foliated, calcite veins and patches (5%), biotite (5%); abundant po (>10%) and minor py; sawtooth texture at upper and lower contact.

<<Min: 580.1 - 580.8 0.5% Min: Pyrite>>

<<Min: 580.1 - 580.8 10% Min: Pyrrhotite>>

580.80 592.04 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

580.8 - 592.04: Black-dark grey, fine grained, graphitic-siliceous-calcareous (averaging 10% calcite), locally strongly graphitic, deformed-wavy foliation (secondary foliation well marked in some intervals-crenulation cleavage from 585.40m to 585.80m); two 10 cm qtz veins showing strong vuggy texture; (calcite dissolved); sawtooth texture at upper contact, gradational lower contact.

<<Min: 580.8 - 593.8 0.5% Min: Pyrite>>

<<Min: 580.8 - 593.8 0.1% Min: Pyrrhotite>>

<<Vein: 585.3 - 595.4 70% Quartz>> Vuggy qtz vein, recrystalized (drusy), mudstone hosted

<<Vein: 587.2 - 587.35 90% Quartz>> Vuggy qtz vein, recrystalized (drusy), mudstone hosted

<<Struc: 582.5 - 582.51 Foliation>> crenulation cleavage interval

<<Struc: 583.35 - 583.36 dominant foliation>> foliation well marked over 20cm interval, crenulation cleavage around

<<Struc: 588.2 - 588.21 dominant foliation>>

592.04 592.80 SED Undifferentiated sedimentary rock

592.04 - 592.8: Brown-dark green, fine to medium grained, non foliated, chloritic, disseminated po (10%), equigranular texture (meta sandstone ?), mudstone intercalated, (20 cm), qtz-carbonate irregular veins/pods representing 15% of the interval; sharp wavy lower contact;

592.80 593.80 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

592.8 - 593.8: Black-dark blue, fine grained, weakly foliated, moderately graphitic-siliceous with thin foliaform calcite bands (5%); trace po-py.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

593.80 595.16 MAFt **Undifferentiated mafic volcaniclastic**

593.8 - 595.16: Green-grey, fine grained, non foliated, equigranular, chloritic-weakly to moderately calcareous (calcite patches); contorted-sawtooth upper and lower contact as well as mudstone inclusion (over 15 cm wide), pale yellow-green at margin and kinks (unconsolidated sediments (?), possible pepperitic texture); abundant disseminated po (10%), trace cpy.

<<Min: 593.8 - 595.16 5% Min: Pyrrhotite>>

<<Min: 593.8 - 595.16 0.1% Min: Chalcopyrite>> associated with py

<<Min: 593.8 - 600.08 0.1% Min: Pyrite>>

595.16 598.61 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

595.16 - 598.61: Black-dark blue, fine grained, poorly foliated, weakly graphitic-siliceous; weakly to moderately calcareous(patch, 5%), biotite porphyroblasts (2%); trace po (aggregated); wavy foliation at upper contact,

<<Min: 595.16 - 600.08 0.1% Min: Pyrrhotite>>

<<Struc: 596 - 596 Orientation Lock Angle>> Lock angle between orientation mark at 596m and 599 m.

<<Struc: 598.1 - 598.11 dominant foliation>>

598.61 601.24 MAFt **Undifferentiated mafic volcaniclastic**

598.61 - 601.24: Mudstone and mafic tuff intercalated; medium green-grey, non foliated, weakly calcareous-chloritic; abundant fine grained po (10-15%) - mudstone black-dark blue, weakly calcareous, poorly foliated; py in break surface; marked by irregular quartz veins representing 10% of the interval.

<<Min: 600.08 - 601.26 10% Min: Pyrrhotite>>

<<Vein: 598.67 - 606 10% Quartz-Carbonate>> Quartz-calcite vein/pods averaging 10 cm wide, commonly associated with lithology changes

601.24 602.46 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**			601.26	602.46	1.20	D00004584	0.011	0.4	0.02	-0.01	0.02

601.24 - 602.46: Black-dark blue, fine grained, poorly foliated, siliceous-very weakly calcareous (rare wispy bands, 1% calcite); contorted glassy qtz veins and quartz-calcite veins, fine grained py and rare trace po-cpy concentrated at contacts; sawtooth upper and lower contact.

<<Min: 601.26 - 605.29 1% Min: Pyrite>> and concentrated at lithology break

<<Min: 601.26 - 605.29 3% Min: Pyrrhotite>> and concentrated at lithology break

<<Min: 601.26 - 605.29 0.1% Min: Chalcopyrite>> associated with po

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Struc: 602 - 602 Orientation Lock Angle>> wrong operation at drill-no measurement taken from 601.00m to 605.00m, uncertainty									
602.46	**604.29**	**MAFt** **Undifferentiated mafic volcaniclastic** 602.46 - 604.29: Dark green-mottled brown at upper contact, fine grained, poorly foliated, chloritic-weakly calcareous (qtz-carbonate veinlets); upper contact marked by abundant po and glassy quartz-carbonate pods; possible weak banded chlorite alteration (?); po concentrated on the edge of the unit, disseminated py (1%), and trace cpy; sawtooth upper and lower contact.	602.46	603.29	0.83	D00004585	0.027	0.6	0.02	-0.01	0.03
		<<Alt: 602.46 - 604.29 Weak Chlorite>> irregular chlorite bands suggesting alteration (uncertain interpretation but seems match with cpy presence)	603.29	604.29	1.00	D00004586	0.063	-0.3	-0.01	-0.01	0.03
604.29	**605.29**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone** 604.29 - 605.29: Black-dark blue, fine grained, wavy foliation to crenulation cleavage, moderately graphitic-siliceous-calcite (trace); fine grained disseminated py along the foliation (1-2%) - no po observed; quartz-calcite vein at lower contact with mudstone inclusion.	604.29	605.29	1.00	D00004587	0.029	0.4	0.02	-0.01	-0.01
605.29	**606.17**	**MAFt** **Undifferentiated mafic volcaniclastic** 605.29 - 606.17: Grey-green-mottled brown, fine to medium grained, poorly foliated, equigranular, chlorite-sericite (intermediate); abundant disseminated po (15%),-cpy (possibly up to 0.5%)-py (1%); quartz-calcite vein at upper contact, glassy quartz-calcite-mudstone inclusion from 605.82m to 605.92m; finer grained at lower contact, sawtooth texture.	605.29	606.17	0.88	D00004588	-0.005	1.5	0.08	-0.01	0.04
		<<Min: 605.29 - 606.17 0.5% Min: Pyrite>>									
		<<Min: 605.29 - 606.17 10% Min: Pyrrhotite>>									
		<<Min: 605.29 - 606.17 0.5% Min: Chalcopyrite>>									
606.17	**609.18**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone** 606.17 - 609.18: Black-dark blue, fine grained, weakly foliated, graphitic-siliceous-calcite bands/patches (5%), quartz-calcite pods; disseminated py at upper and lower contact - no po observed; calcite vein showing brecciated-spider web texture (e.g. at 608.58m); sawtooth upper contact, sharp foliaform lower contact.									
		<<Min: 606.17 - 609.18 0.1% Min: Pyrrhotite>>									
		<<Min: 606.17 - 610 0.1% Min: Pyrite>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

609.18 610.38 MAFt **Undifferentiated mafic volcaniclastic**

609.18 - 610.38: Medium green-brown, fine grained, equigranular, poorly foliated, chlorite-sericite-calcite (10%-possibly ankerite specks); abundant po at upper contact; strongly bleached over 35 cm at lower contact, pale brown-beige, possibly due to quartz-calcite vein envelop (halo), vuggy texture over 10 cm on mudstone at contact.

<<Min: 609.18 - 610 5% Min: Pyrrhotite>> fading out in bleached lower contact

<<Min: 610 - 620.7 0.5% Min: Pyrite>>

<<Min: 610 - 620.7 0.5% Min: Pyrrhotite>> associated with calcite band

<<Min: 610 - 620.7 0.1% Min: Chalcopyrite>> associated with po

<<Vein: 610.28 - 611.16 15% Quartz>> Three vuggy quartz veins probably related to acidic fluid circulation

620.32	620.82	0.50	D00004589	0.006	0.4	0.03	-0.01	0.02

610.38 620.82 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

610.38 - 620.82: Dark black at upper contact, fine grained , poorly foliated-wavy to crenulation cleavage, possible lithic fragments, graphitic-siliceous-weakly to moderately calcareous (wispy banded calcite, 5%), biotite porphyroblasts (3-5%); vuggy quartz vein at upper contact over 1.20 m; rare patchy veinlets of po associated with calcite and trace cpy, disseminated py (1%), and fine grain py-po-cpy at lower contact over 15 cm; pale yellow green mafic (sericitic ?) interval from 615.16 m to 615.60 m containing trace po and cpy; quartz vein at upper contact, sawtooth texture at lower contact.

<<Min: 620.7 - 623.3 0.5% Min: Pyrite>>

<<Min: 620.7 - 623.3 5% Min: Pyrrhotite>> and patch at lithology break

<<Min: 620.7 - 623.3 0.1% Min: Chalcopyrite>> at lithology break, associated with po

<<Alt: 615.16 - 627.3 Weak-Moderate Calcite>> pervasive in mafic interval

<<Vein: 611.2 - 611.8 3% Quartz 30 deg. >> Quartz veinlet set (4/m) cross-cutting the foliation, 2 mm off-set by foliation (reactivated)

<<Vein: 615.6 - 620.5 10% Quartz-Carbonate>> Multiple 10 cm qtz-calcite veins, irregular, dominantly sub foliaform

<<Struc: 613.3 - 613.31 Foliation>> possibly secondary foliation, crenulated cleavage at 613.40m

<<Struc: 619.05 - 619.06 dominant foliation>> alpha angle irregular within 20cm interval

<<Struc: 619.16 - 619.16 Vein>>

<<Struc: 620 - 620 Orientation Lock Angle>> Lock angle between orientation mark at 620 m and 623 m.

620.82	621.46	0.64	D00004591	0.006	0.7	0.04	-0.01	0.02

620.82 623.30 MAFt **Undifferentiated mafic volcaniclastic**

620.82 - 623.3: Grey-brownish, fine grained , homogeneous, non foliated, weakly chloritic-moderately calcareous; calcite veinlets (2/m) and quartz-calcite pods; abundant po (10-15%) - py in veinlets and small patches (<1%) - cpy at upper and lower contact associated with py-po and quartz carbonate pods; sawtooth texture at upper and lower contact.

From (m)	To (m)	Rocktype & Description

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
623.30	624.35	1.05	D00004592	0.005	0.6	0.07	-0.01	0.02
640.48	641.64	1.16	B00267838	-0.005	0.3	0.02	-0.01	0.02
641.64	642.60	0.96	B00267839	0.007	-0.3	0.02	-0.01	0.02

623.30 629.58 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

623.3 - 629.58: Black-dark blue, fine grained, weakly foliated, graphitic-siliceous-moderately (locally strongly) calcareous, wispy to banded calcite and in fractures; trace py, no po observed except at upper contact marked by glassy quartz-calcite pods surrounded by patchy po-py-cpy over 60 cm; sawtooth at upper contact, gradational lower contact.

<<Min: 623.3 - 624.35 2% Min: Pyrite>> associated with quartz-calcite pods

<<Min: 623.3 - 624.35 3% Min: Pyrrhotite>> associated with quartz-calcite pods

<<Min: 623.3 - 624.35 0.5% Min: Chalcopyrite>> associated with quartz-calcite pods

<<Min: 624.35 - 635.9 0.1% Min: Pyrrhotite>>

<<Min: 624.35 - 637.4 0.5% Min: Pyrite>> associated with tourmaline

<<Alt: 627.3 - 629.58 Moderate Calcite>>

<<Vein: 623.3 - 624.41 30% Quartz-Carbonate>> Quartz pods associated with mineralisation py-po-cpy, possibly remobilisation

<<Struc: 625.3 - 625.31 Foliation>>

<<Struc: 628.8 - 628.81 dominant foliation>>

<<Struc: 629 - 629 Orientation Lock Angle>> Lock angle between orientation mark at 629 m and 632 m.

629.58 642.60 MAFw **mafic volcanic flows**

629.58 - 642.6: Chaotic interval: dominantly fine to very fine grained sericite-chlorite, poorly foliated, weakly to moderately calcareous, quartz-carbonate irregular vein/pods (5% of the interval); brown mica associated with quartz-calcite and possibly fine grained light green chlorite; massive fractured bull quartz vein (weakly vuggy) from 637.91 m to 640.61 m containing mafic and carbonaceous material slivers (20%), greenish talc in fracture associated with fine grain po-py-cpy; upper contact marked by gradational silicified interval followed by beige-granular, very fine grained bleached texture, possibly amygdules aggregated; more chloritic from 632.00 m to 635.48 m, biotite-calcite banded from 638.48 m to 638.61 m (pelitic ?); from 635.90 m to 637.91 m, foliation is more developed, coarse grained on the upper part (biotite-chlorite-sericite), 10 cm mudstone intercalated; lower part of the unit: beige-brownish-bleached, homogeneous, strongly fractured-crackled.

<<Min: 635.9 - 636.4 3% Min: Pyrrhotite>>

<<Min: 636.4 - 644.21 0.5% Min: Pyrrhotite>> and disseminated in narrow interval

<<Min: 637.4 - 645.1 1% Min: Pyrite>> and in fracture

<<Alt: 629.58 - 635 Weak-Moderate Calcite>> and qtz-calcite veins

<<Alt: 635 - 637.91 Weak-Moderate Calcite>>

<<Alt: 637.91 - 641.21 Trace Calcite>>

<<Alt: 641.21 - 680.27 Weak-Moderate Calcite>> irregular, locally strong-trace in some interval

<<Vein: 630.8 - 630.83 80% Tourmaline-Sulphide 20 deg. >> Tarnished black vein, probably dirty tourmaline in bleached interval, py in fracture, one cm offset on the upper part

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Vein: 637.91 - 640.61 70% Quartz-Carbonate 70 deg. >> Massive quartz veins containing xenoliths of mudstone and mafic tuff, fractured, rare fine grained py patches-trace cpy; talc patch; beta angle 260									
		<<Vein: 641 - 642.6 5% Quartz 60 deg. >> Multiphase quartz veinlets-spider web texture locally, cross-cutting veinlets and veinlets set; dominant veinlet set alpha 60, 10/m									
		<<Struc: 630.8 - 630.83 Vein>> dirty tourmaline vein, py in fracture and in selvage, one cm offset on the upper part									
		<<Struc: 632 - 632 Orientation Lock Angle>> Lock angle between orientation mark at 632 m and 635 m.									
		<<Struc: 637.91 - 637.91 Vein>> bull quartz vein upper contact									
642.60	**643.27**	**RHYi Aphanitic Rhyolite (intrusion)**	642.60	643.27	0.67	B00267841	0.025	0.4	0.02	-0.01	0.01
		642.6 - 643.27: Silica rich interval, could be dirty quartz veins; grey, fractured, fine grained patchy py; sharp upper contact, bleached-pale yellow lower contact.									
		<<Alt: 642.6 - 644.21 Strong Silicification>> possibly RHYi and cherty mudstone									
643.27	**644.21**	**MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone**	643.27	644.21	0.94	B00267842	0.068	1.4	0.03	-0.01	0.01
		643.27 - 644.21: Black-dark grey, silica banded (cherty ?) mudstone, poorly graphitic, containing mafic inclusions; proximity of RHYi (silicified or dirty quartz unit) and fault zone.									
644.21	**645.10**	**MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone**	644.21	645.10	0.89	B00267843	0.069	1.1	0.04	-0.01	0.01
		644.21 - 645.1: Beige-black, faulted mudstone (40% clay-60% clasts up to 50 cm wide), bleached or including mafic material, patchy py around quartz clast; healed breccia at upper contact over 30 cm, shallow alpha angle (25 degrees TCA), lithic fragments at lower contact.									
		<<Min: 644.21 - 662 0.1% Min: Pyrrhotite>> rare patch									
		<<Vein: 644.3 - 644.33 60% Pyrite 40 deg. >> Py vein in breccia									
		<<Struc: 644.21 - 645.1 Moderate-Strong Fault>> brecciated at upper contact (healed), 30% clay gouge, quartz clasts up to 5cm wide, fine grain py patch, quartz vein at lower contact									
645.10	**680.27**	**MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone**									
		645.1 - 680.27: Black-dark grey, fine grained, dominantly poorly foliated (from thin foliation to crenulation cleavage), heterogeneous, graphitic-siliceous-patchy calcite (5%), fractured (8 to 10 fractures/m); rare beige-green mudstone interval; strongly vuggy quartz veining from 645.10 m to 650.50 m; fine grained disseminated py (0.5%-irregular repartition), trace po-cpy in calcite patches; fault at upper contact, sharp lower contact.									
		<<Min: 645.1 - 662 1% Min: Pyrite>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 653 - 656 0.1% Min: Chalcopyrite>> associated with po

<<Min: 662 - 664.5 0.1% Min: Pyrrhotite>>

<<Min: 662 - 683 0.1% Min: Pyrite>>

<<Min: 664.5 - 699.78 0.1% Min: Pyrrhotite>> at upper contact

<<Vein: 645.1 - 650.4 10% Quartz>> Multiple vuggy quartz veins averaging 5 to 10 cm wide in fractured zone as well as quartz in thin fracture

<<Struc: 645.1 - 650.7 Weak-Moderate Fault>> damaged zone marked by vuggy quartz veins and numerous fractures, weak shearing

<<Struc: 661.25 - 661.26 dominant foliation>>

680.27 684.25 MAFt Undifferentiated mafic volcaniclastic

680.27 - 684.25: Medium green-grey, fine grained, poorly to non foliated, chloritic-moderately calcareous (5-10%), quartz-calcite veinlets (5/m), finer grained on the edge, spotty calcite in the centre (MAFi ?); disseminated po mostly concentrated over 40 cm at upper contact, patchy py associated with quartz vein; lower contact marked by quartz-calcite vein (10 cm wide) and possible xenolith brownish-fine grained disseminated py.

<<Min: 683 - 688 0.5% Min: Pyrite>> disseminated in mudstone, patch-veinlet-fracture in MAFt

<<Alt: 680.27 - 684.24 Moderate Calcite>>

<<Alt: 684.24 - 699.78 Weak-Moderate Calcite>>

<<Vein: 684.12 - 684.25 80% Quartz-Carbonate 65 deg. >> Quartz-calcite vein at contact between MAFt and MDS, mudstone inclusion, alpha angle from lower contact

<<Struc: 681.37 - 681.38 Vein>> calcite veinlet set in MAFt

<<Struc: 682.7 - 682.71 Vein>> calcite veinlet set in MAFt

684.25 699.78 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

684.25 - 699.78: Black-dark blue, fine grained, weakly foliated-crenulation cleavage, graphitic-siliceous-calcite patches and irregular bands (averaging 5-10%), quartz in fracture cross-cutting foliation and locally mm offset; fine grained, biotite porphyroblasts (3%); disseminated py (irregular repartition), patchy po and trace cpy at upper contact; narrow minor fault; rare brown-green 2-3 cm sliver of possibly mafic material or non carbonaceous sediment; quartz-calcite vein at upper contact, lower contact marked by possibly sediment mixed with grey wispy silica or elongated silica clasts, calcite in matrix.

<<Min: 684.25 - 684.5 0.1% Min: Chalcopyrite>> associated with py and po

<<Min: 688 - 827.18 0.5% Min: Pyrite>>

<<Min: 694.78 - 713.71 0.1% Min: Pyrrhotite>> at upper contact and occasionally aggregated in MAFt

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

699.78 709.52 MAFt **Undifferentiated mafic volcaniclastic**

699.78 - 709.52: Medium green, fine to medium grained, non foliated, strongly chloritic-moderately to strongly calcareous; finer grained on the edges (also less calcareous), granular texture possibly preserved suggesting (meta trachyte ?/MAFi ?), chlorite (very fine grain matrix)-calcite-biotite-white specks (possibly ankerite); fine to medium grained biotite, calcite veinlets (6/m); po trace at upper contact-fine grained disseminated py (0.5%); from 707.55 m to 708.55 m, mudstone and possibly sediment input, black-dark brown-grey, foliated, mixed with mafic material; chaotic upper contact consisting of a mixed of elongated silica, sediment (biotite porphyroblasts train) and mafic content; quartz-calcite vein at lower contact, 15 cm fault gouge in mudstone.

<<Alt: 699.78 - 709.32 Moderate Calcite>> veinlets and matrix

<<Alt: 709.32 - 754.76 Weak-Moderate Calcite>> locally strong

<<Struc: 703.46 - 703.47 Vein>> calcite veinlet set in MAFt

<<Struc: 709.32 - 709.42 Weak Fault>> minor fault gouge at contact between MAFt and MDS (also 5 cm quartz vein)

709.52 712.61 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

709.52 - 712.61: Black-dark blue, fine grained, poorly foliated-locally wavy, graphitic-siliceous-weakly to moderately calcareous (non uniform repartition, calcite patch); weakly faulted at upper contact (gouge over 15 cm, 70% clay, biotite porphyroblasts (5%), trace py, no po observed.

712.61 713.71 SED **Undifferentiated sedimentary rock**

712.61 - 713.71: Medium brown, fine grained, equigranular, weakly calcareous-sericite-chlorite; py in fracture; interval marked by massive quartz-calcite veins/pods (50% of the interval).

<<Vein: 712.61 - 713 50% Quartz-Carbonate>> Multiple quartz-calcite vein-pods

713.71 717.90 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

713.71 - 717.9: Black-dark blue, fine grained, thinly foliated-locally crenulation cleavage; graphitic-siliceous-weakly to moderately calcareous; fine grained py dominantly aggregated (0.5-1%), po associated with calcite bands, trace cpy; sharp upper contact (alpha 75 degrees), sawtooth texture at lower contact (alpha about 40 degrees).

<<Min: 713.71 - 717.9 0.1% Min: Chalcopyrite>> possibly cpy associated with po in calcite band

<<Min: 713.71 - 727.4 0.5% Min: Pyrrhotite>> associated with calcite bands

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

717.90 718.80 WCK **Wacke - sandstone with 15-75% clay matrix**

717.9 - 718.8: Medium brown, fine to medium grained, poorly foliated; sericite-possibly chlorite; abundant elongated disseminated po (15%); sawtooth at upper contact, massive quartz-calcite vein (25 cm wide) at lower contact.

<<Vein: 718.6 - 718.8 90% Quartz-Carbonate 75 deg. >> Quartz-calcite vein at contact between wacke and mudstone

718.80 721.50 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

718.8 - 721.5: Black-dark blue, fine grained, poorly foliated; graphitic-siliceous-weakly to moderately calcareous (bands and patches); fine grained disseminated patches of py, po dominantly associated with calcite bands, possible trace cpy associated with po; quartz vein at upper contact, gradational lower contact.

721.50 727.40 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

721.5 - 727.4: Dirty-black-dark blue, fine grained, poorly foliated (texture obscured by silica vein and calcite patches, wavy -contorted-fluidal); weakly graphitic-siliceous-calcareous, biotite train; locally mudstone fragments, possibly deformed-tectonized cobbles at upper contact; fine grained disseminated py (0.5%), patchy po (0.5%); sharp lower contact at 70 degrees to core axis, beta 90 degrees.

<<Struc: 722 - 722 Orientation Lock Angle>> Lock angle between orientation mark at 722 m and 725 m.

727.40 728.70 WCK **Wacke - sandstone with 15-75% clay matrix**

727.40	728.00	0.60	D00004593	-0.005	0.7	0.05	-0.01	0.02

727.4 - 728.7: Light brown, fine to medium grained, calcareous at upper contact, poorly to non foliated; abundant disseminated po, trace py in fractures; sharp upper contact, sawtooth lower contact showing one millimetre biotite rich margin, alpha 25 degrees, beta 340.

<<Min: 727.4 - 728.7 10% Min: Pyrrhotite>> elongated

728.00	728.70	0.70	D00004594	0.009	0.5	0.04	-0.01	0.02

728.70 729.88 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

728.7 - 729.88: Black-dark blue, fine grained, very poorly foliated, poorly graphitic-siliceous-weakly calcareous; disseminated po (0.5%), trace py; sawtooth upper and lower contact.

<<Min: 728.7 - 729.8 0.1% Min: Pyrrhotite>>

<<Min: 729.8 - 731.27 10% Min: Pyrrhotite>> weakly elongated

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
729.88	**731.27**	**SEDc** **Calcareous sedimentary rock** 729.88 - 731.27: Light brown, fine to medium grained, weakly foliated, sericite-quartz-calcite-lesser chlorite-biotite; disseminated po (5-10%); sawtooth upper contact, sharp lower contact. <<Vein: 730.2 - 734.44 40% Quartz-Carbonate>> Multiple quartz-calcite vein-pods									
731.27	**748.49**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone** 731.27 - 748.49: Black-dark blue, fine grained, weakly foliated-locally crenulation cleavage; graphitic-siliceous-moderately calcareous (patchy and banded calcite), biotite porphyroblast patches and trains; upper part marked by slivers of brown (patchy calcite-sawtooth contacts) sediments, quartz-calcite veins (massive-10 cm wide) and intercalated dirty brown fine grained possibly wacke intervals; sawtooth upper contact, sharp lower contact. <<Min: 731.27 - 767 0.5% Min: Pyrrhotite>>									
748.49	**751.21**	**SED** **Undifferentiated sedimentary rock** 748.49 - 751.21: Green-grey, fine grained on the upper part, foliated, possibly cobble size clasts deformed-flattened (gradational change); chlorite-sericite-biotite porphyroblasts disseminated and in foliation, glassy silica veinlets (flooded, silicification ?); intermediate composition or including silica rich clasts; sharp contact; possibly altered version of mudstone, sericitization and maybe potassic alteration. <<Alt: 748.49 - 771.53 Moderate Chlorite>> and possibly sericite patch <<Alt: 749.55 - 751.21 Strong Silicification>> <<Struc: 748.8 - 748.82 Foliation>>									
751.21	**754.76**	**SLT** **Siltstone - fine-grained sedimentary rock (siliceous)** 751.21 - 754.76: Green-dark green, fine to medium grained, poorly foliated (foliation or calcite veinlet set (?)); strongly chloritic-calcareous (matrix and veinlets)-biotite porphyroblasts and biotite trains (density increases downhole); trace po; sharp upper contact, gradational lower contact; homogeneous unit could be a strongly altered siltstone.									
754.76	**771.54**	**SEDc** **Calcareous sedimentary rock** 754.76 - 771.54: Green-patchy light grey-chaotic unit; fine grained matrix and possibly cobble sized polymictic fragments, poorly foliated; local fluidal texture; chloritic-calcite patches (25-30%), biotite porphyroblastic patches (5-10%); from 757.48 m to 757.51 m, narrow felsic dyke, glassy, spotty texture; dirty tourmaline-quartz vein, deformed, at 758.70 m, shallow angle to core axis; calcite content fading out on the lower part, mottled texture grey-green-beige; mafic material flooded into unconsolidated sediments ?	767.27	768.28	1.01	D00004595	0.006	-0.3	0.02	-0.01	-0.01
		<<Min: 767 - 771.54 7% Min: Pyrrhotite>>	768.28	769.30	1.02	D00004596	-0.005	0.4	0.01	-0.01	-0.01
		<<Alt: 754.76 - 767.1 Strong Calcite>> and possibly sericite	769.30	770.37	1.07	D00004597	0.007	1.1	0.02	-0.01	-0.01

From (m)	To (m)	Rocktype & Description

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
770.37	771.53	1.16	D00004598	0.006	1.5	0.02	0.01	-0.01

<<Alt: 767.1 - 771.35 Weak Calcite>>

<<Alt: 771.35 - 775 Weak-Moderate Calcite>>

<<Vein: 758.5 - 758.8 5% Quartz-Tourmaline 20 deg. >> Dirty tourmaline vein, probably mixed with quartz

<<Struc: 754.9 - 754.91 Foliation>>

<<Struc: 769.65 - 769.76 Foliation>> wispy po in foliation

771.54 782.03 MAFi **Mafic Intrusions (primarily footwall mafic intrusion)**

771.54 - 782.03: Dark green, fine to medium grained, poorly to non foliated, granular-chlorite-biotite-calcite; calcite-quartz veinlet sets; low biotite content on the upper part, up to 80% at lower contact; gradational upper contact marked by fine grained biotite patch, massive quartz veins (over 1 m wide) at sharp lower contact.

<<Min: 771.54 - 782.03 0.1% Min: Pyrrhotite>>

<<Alt: 775 - 779 Moderate Calcite>>

<<Alt: 779 - 795.24 Weak-Moderate Calcite>> and veinlets

<<Vein: 771.54 - 772.61 2% Calcite 10 deg. >> Deformed calcite veinlets

<<Vein: 774.5 - 782 2% Calcite 60 deg. >> Multiple calcite-lesser quartz veinlet sets (5/m) - average alpha 60

<<Struc: 773 - 773 Orientation Lock Angle>> Lock angle between orientation mark at 773 m and 776 m.

<<Struc: 774.9 - 774.91 Vein>> calcite veinlet set

<<Struc: 775.05 - 775.06 Vein>> calcite veinlet set

<<Struc: 780.5 - 780.51 Vein>> calcite veinlet set

<<Struc: 780.65 - 780.66 Vein>> calcite veinlet set

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
782.03	783.52	1.49	D00004599	0.005	-0.3	-0.01	-0.01	-0.01

782.03 787.27 PEL **Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts**

782.03 - 787.27: Black-dark brown, fine to medium grained, poorly foliated, locally altered (bleached) banded texture, siliceous; biotite-calcite-sericite-quartz; po patch at upper contact, sharp lower contact; interval including massive quartz vein from 782.03 m to 783.52 m could mark the contact between Wind Lake and KZK Group (?).

<<Min: 782.03 - 783.52 2% Min: Pyrrhotite>> in quartz vein fracture

<<Min: 783.52 - 791 0.5% Min: Pyrrhotite>>

<<Vein: 782.03 - 783.52 95% Quartz-Carbonate-Sulphide 65 deg. >> Massive quartz-lesser calcite-sulfide (po dominantly in fractures)

<<Struc: 786.9 - 786.91 Foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

787.27 789.29 INT **undifferentiated (granitic) intrusive rocks**

787.27 - 789.29: Off white-glassy, massive, possibly 1 to 3 mm feldspar ghosts, disseminated py (<5%); 3 porphyritic felsic intrusions (?); unit cross-cut by late quartz-tourmaline veins, shallow angle to core axis ; intercalated pelite, black-brown, fine grained (30% of the interval).

<<Vein: 788 - 788.25 20% Tourmaline 15 deg. >> Late tourmaline vein cross-cutting felsic intrusion

<<Vein: 788.75 - 789.25 10% Tourmaline 15 deg. >> Late tourmaline vein cross-cutting felsic intrusion (?)

<<Struc: 787.27 - 787.27 Contact>> upper contact felsic intrusion

789.29 794.40 SED **Undifferentiated sedimentary rock**

789.29 - 794.4: Dark brown-dark green, fine to medium grained, poorly to non foliated; biotite-chlorite-quartz-calcite (patch-fracture); late calcite-tourmaline along core axis.

<<Min: 791 - 794 2% Min: Pyrrhotite>>

<<Min: 794 - 805.05 0.5% Min: Pyrrhotite>> and rare wispy veinlets

<<Vein: 791 - 794 3% Calcite 60 deg. >> Calcite veinlet set (5/m); main one alpha 60

<<Vein: 793 - 793.25 1% Tourmaline 25 deg. >> Calcite-tourmaline veinlet (calcite selvage)

<<Vein: 794 - 794.1 70% Quartz-Carbonate>> Calcite-lesser qtz vein

<<Struc: 789.8 - 789.81 Vein>> calcite veinlet set

794.40 795.24 RHYvl **Lapilli tuff**

794.4 - 795.24: Light grey, foliated, lapillitic or porphyroblastic, weakly muscovite altered-quartz-sericite-rare biotite; possibly intrusive unit with sharp upper and lower contact (bleaching).

795.24 797.47 PEL **Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts**

795.24 - 797.47: Dark brown, fine grained, equigranular; biotite (70%), calcite in matrix, quartz and calcite veinlets set (10/m); bleached interval from 796.70 m to 797.10 m; possibly MAFi

<<Alt: 795.24 - 797.47 Moderate-Strong Calcite>> and veinlets

<<Vein: 795.25 - 797 4% Quartz-Carbonate 70 deg. >> Calcite-lesser quartz veinlet set (10/m)

<<Struc: 795.9 - 795.91 Vein>> calcite veinlet set

<<Struc: 796.3 - 796.31 Vein>> calcite veinlet set

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

797.47 805.05 RHYcf Feldspar & quartz phyric rhyolite

797.47 - 805.05: Grey, clastic or porphyroblastic (subangular) partially calcite replaced (up to 2 cm long), weakly foliated, rare blue quartz eyes, biotite porphyroblasts disseminated (1-2%), locally nearly flow banded (at 803.50 m); pelite intercalated from 804.62 m to 804.88 m with sharp contacts; note: could be logged as RHYcw curdy texture or RHYcf; sharp contacts,

<<Alt: 797.47 - 805.05 Weak Calcite>> clasts-phenocrysts partially replaced

<<Vein: 804.62 - 807.8 4% Calcite 70 deg. >> Multiple calcite veinlet sets (8/m)

805.05 807.80 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

805.05 - 807.8: Dark brown-beige, fine to medium grained, weakly foliated; biotite (50%)-feldspar-weak to moderate calcite, quartz-calcite veins and veinlet sets; finer grained at contacts.

<<Min: 805.05 - 809.1 1% Min: Pyrrhotite>>

<<Alt: 805.05 - 807.8 Weak-Moderate Calcite>>

<<Struc: 805.05 - 805.06 Foliation>> also lower contact between RHYvl and PEL-calcite veinlets

<<Struc: 805.7 - 805.71 Vein>> calcite veinlet set

807.80 809.10 RHYcf Feldspar & quartz phyric rhyolite

807.8 - 809.1: Grey, porphyroblasts or low strained lapilli (mostly observed at upper contact-partially calcite replaced), poorly foliated; quartz-sericite, light grey-beige-bleached possibly intercalated pelite (quartz vein at upper contact); sharp contacts; could be RHYcf

<<Alt: 807.8 - 810.7 Trace Calcite>>

809.10 810.70 SED Undifferentiated sedimentary rock

809.1 - 810.7: Beige-brown, very fine grained matrix, biotite (mica) banded-foliated, could be a mix of pelite and clay (mudstone) or bleached pelite.

<<Min: 809.1 - 815.79 3% Min: Pyrrhotite>>

810.70 811.55 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

810.7 - 811.55: Dark brown, fine to medium grained, weakly foliated, finer grained at contacts; biotite-calcite-quartz-lesser chlorite; sharp contacts.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Alt: 810.7 - 811.5 Weak-Moderate Calcite>>

<<Alt: 811.5 - 815.79 Strong Calcite>>

<<Struc: 811.09 - 811.1 Vein>> calcite veinlet set

811.55 815.79 SEDc Calcareous sedimentary rock

811.55 - 815.79: Chaotic interval, "liken" texture; beige-pinkish (potassic alteration ?)-black-green, patchy, fluidal to clastic; biotite-calcite-chlorite in matrix, possible cobble sized clasts from 812.00 m to 813.15 m; interpreted as flow or intrusion through unconsolidated sediments.

<<Alt: 811.55 - 815.79 Weak-Moderate Chlorite>>

<<Alt: 811.85 - 815.79 Moderate-Strong Albite>> probably potassic alteration-metasomatic

<<Struc: 811.55 - 811.55 Contact>> contact between PEL and SED

815.79 816.59 INT undifferentiated (granitic) intrusive rocks

815.79 - 816.59: Possibly two units with contact at 816.04 m (two intrusive phases); glassy, aphanitic groundmass, phenocrysts ghost on the lower part, rare disseminated po and biotite on the lower part; could be logged as RHYi/RHYif.

<<Min: 815.79 - 827.18 0.5% Min: Pyrrhotite>>

<<Alt: 815.79 - 816.56 Trace Calcite>> in vein/fracture

<<Alt: 816.56 - 818.85 Weak Calcite>>

816.59 818.85 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

816.59 - 818.85: Intermediate composition; black-dark green-beige, granular, medium to coarse grained with finer grained matrix at lower contact, weakly foliated, biotite-chlorite-quartz-feldspar (?); possibly silicified on the lower part; banded upper contact, sharp lower contact; possibly pepperitic texture at upper contact.

<<Alt: 816.85 - 827.18 Weak-Moderate Chlorite>>

<<Alt: 816.85 - 827.18 Strong Albite>> probably potassic alteration-metasomatic

818.85 827.18 SEDc Calcareous sedimentary rock

818.85 - 827.18: Chaotic unit, "liken" texture, black-grey-beige-pinkish, patchy, locally fluidal; biotite-calcite-chlorite-possibly potassic feldspar (?); silica rich trained clasts (?) possibly vesicular (flattened grey glassy mm lenses); brecciated or conglomeritic at lower contact; two 20 cm pelitic (?) intervals intercalated: fine to medium grained, black-beige, calcite-biotite-possibly trace qtz-chlorite, sharp contacts.

<<Alt: 818.85 - 827.18 Moderate-Strong Calcite>>

<<Struc: 818.85 - 818.85 Contact>> contact between MAFi and SED

<<Struc: 822.8 - 822.81 Foliation>> foliation in felsic intrusion

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

827.18 833.48 MAFi **Mafic Intrusions (primarily footwall mafic intrusion)**

827.18 - 833.48: Dark green, fine to medium grained, massive-homogeneous, equigranular, peppery biotite; chlorite-biotite-quartz-sericite-lesser calcite, intermediate composition; disseminated po (0.5%); sharp lower contact.

<<Min: 827.18 - 886.03 0.1% Min: Pyrite>> dominantly in fracture

<<Min: 827.18 - 886.03 0.1% Min: Pyrrhotite>>

<<Alt: 827.18 - 834.2 Weak Calcite>> and in veinlets

<<Vein: 827.18 - 833.45 2% Carbonate-Biotite 70 deg. >> Calcite veinlet sets and biotite veinlets, 6/m

<<Vein: 833.04 - 833.06 95% Quartz-Carbonate 90 deg. >> Quartz-calcite vein (2 cm wide) offsetting calcite quartz veinlet

<<Vein: 833.08 - 880 1% Calcite 60 deg. >> Calcite veinlets averaging 2/m

<<Struc: 830.28 - 830.29 Vein>> calcite veinlet set

<<Struc: 832.7 - 873.71 Vein>> calcite veinlets set

833.48 835.50 SED **Undifferentiated sedimentary rock**

833.48 - 835.5: Dark green, patchy pinkish (potassic alteration ?), fine to medium grained, mottled; chlorite-calcite-biotite; possibly unconsolidated sediments intruded by hydrothermal alteration fluids (fluidal texture locally); rare biotite at upper contact (833.48 m to 833.80 m), pseudo clastic-siliceous.

<<Alt: 834.2 - 835.4 Moderate-Strong Calcite>>

<<Alt: 835.4 - 838.1 Moderate-Strong Silicification>> including felsic intrusion/dirty quartz vein

<<Alt: 835.4 - 838.1 Weak Calcite>> and veinlets

<<Vein: 835.4 - 836.24 10% Quarzt-Biotite-Sulphides 60 deg. >> Dirty quartz vein of felsic intrusion, biotite patch at contact, peppery biotite-lesser po-py

<<Struc: 835.41 - 835.41 Contact>> contact between altered SED and felsic dike-possibly dirty quartz vein

835.50 836.21 INT **undifferentiated (granitic) intrusive rocks**

835.5 - 836.21: Grey, glassy, massive; peppery biotite-py, quartz tourmaline veinlets undeformed at lower contact; could be dirty quartz vein or felsic intrusion.

836.21 838.10 INT **undifferentiated (granitic) intrusive rocks**

836.21 - 838.1: Green-beige, fine grained matrix, porphyritic (maybe clastic-texture locally obscured), moderately foliated; quartz-chlorite-sericite-biotite porphyroblasts; silicified; contact marked by biotite patches

<<Struc: 837.6 - 837.61 Foliation>> main foliation in possibly porphyritic felsic intrusion (?)

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

838.10 848.62 SED Undifferentiated sedimentary rock

838.1 - 848.62: Grey-green-white (patch-bands-dots); mottled texture, locally clastic; chlorite-calcite-biotite, some dirty carbonaceous interval-light grey-fine grained, possibly preserved original material (?), biotite porphyroblasts (overprint); some green-pearly clasts (?), probably chlorite, possibly fuchsite; two possible intermediate/mafic dykes intercalated (sharp contacts); this units might be an altered mudstone.

<<Alt: 838.1 - 848.61 Moderate-Strong Chlorite>> possibly altered sediments

<<Alt: 838.1 - 848.61 Strong Calcite>>

<<Alt: 848.61 - 861.9 Weak-Moderate Calcite>>

848.62 858.20 MAFw mafic volcanic flows

848.62 - 858.2: Green-black (biotite rich), fine to medium grained, massive; chlorite-quartz-biotite, quartz-calcite veinlets; intermediated composition; fine grained disseminated po (0.5%); possible amygdules; from 854.84 m to 855.86 m, dirty quartz vein or felsic intrusion, glassy, possible feldspar ghosts, sharp contacts showing biotite rich chill margin; biotite rich chill margin at lower contact.

<<Alt: 856.86 - 861.04 Moderate Silicification>> possibly other type of alteration like potassic (hard)

<<Vein: 850.75 - 850.78 90% Quartz-Carbonate 45 deg. >> Quartz-calcite vein showing 2 cm offset (cross-cut by calcite veinlet)

<<Vein: 853.1 - 853.31 80% Quartz-Carbonate 45 deg. >> Quartz-calcite vein containing chlorite-wispy py, po at lower contact

<<Struc: 849.62 - 849.63 Vein>> calcite veinlet set

858.20 858.80 INT undifferentiated (granitic) intrusive rocks

858.2 - 858.8: Light grey-off white, glassy, peppery bi-py-po, quartz-feldspar ghosts (?); contacts marked by fine grained biotite patch (chill margin).

<<Struc: 858.2 - 858.2 Contact>> felsic intrusion, upper contact

858.80 862.27 SED Undifferentiated sedimentary rock

858.8 - 862.27: Black-grey-light green, mottled texture; biotite-chlorite-quartz; blue-grey silica rich mudstone interval from 861.38 m to 861.78 m; from 860.51 m to 860.60 m, glassy dirty quartz vein or felsic intrusion (aplitic dykes?), sharp contacts; this unit could be an altered mudstone showing rare preserved intervals.

<<Alt: 861.9 - 878.34 Moderate-Strong Calcite>>

<<Struc: 858.8 - 858.8 Contact>> felsic intrusion, lower contact

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

862.27 863.12 MAFw mafic volcanic flows

862.27 - 863.12: Grey-green, fine grained, peppery biotite porphyroblasts, massive, calcite veinlets; sericite-chlorite-quartz (siltstone-wacke?).

<<Struc: 862.65 - 862.66 Vein>> calcite veinlet

863.12 870.29 SED Undifferentiated sedimentary rock

863.12 - 870.29: Dark grey-light green, clastic to brecciated texture (mm to 4 cm wide) in fine grained grey matrix dominantly carbonaceous mudstone; biotite-sericite-calcite-brown mica along the foliation-graphite-amphibole; calcite is patchy, wispy and clastic containing elongated-prismatic light green mineral (calcium rich amphibole ?); elongated disseminated po, trace cpy; possible trace fuchsite; unconsolidated sediments hypothesis suggested by preserved texture in some interval, probably disaggregated mudstone.

870.29 870.97 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

870.29 - 870.97: Dark blue, fine grained, weakly foliated to massive; preserved mudstone interval, poorly graphitic-mica-silica

870.97 871.36 WCK Wacke - sandstone with 15-75% clay matrix

870.97 - 871.36: Light green-grey, fine to medium grained, massive, equigranular; chlorite-sericite-biotite; preserved interval within large unconsolidated disturbed sediments (possibly large clasts of permeability/rheology change).

871.36 874.80 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

871.36 - 874.8: Dominantly mudstone and pelite; light blue-grey-light green (altered), fine grained, mottled texture (marked by coarser grain), pelitic interval (fine grained biotite rich from 873.27 m to 873.78 m) thinly foliated; weakly graphitic-calcite in matrix and veinlets (fractures), more chloritic downhole; gradational lower contact.

<<Struc: 872 - 872 Orientation Lock Angle>> Lock angle between orientation mark at 772m and 775.

<<Struc: 873.4 - 873.41 Vein>> average measurement, calcite veinlet set

<<Struc: 873.73 - 873.74 Foliation>> main foliation, well marked in biotite rich interval (pelite ?)

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
874.80	**878.34**	**SED** **Undifferentiated sedimentary rock** 874.8 - 878.34: Light green-beige-grey, locally spotty texture (amygdule [calcite] ?) in different intervals; mottled texture; chlorite-biotite-calcite-sericite; possibly hydrothermally altered calcareous mudstone (fluid circulation); sharp lower contact. <<Alt: 874.9 - 879 Weak-Moderate Albite>> possibly potassic alteration <<Alt: 875 - 878.34 Weak Chlorite>> seems strongly hydrothermally altered, possibly chlorite and/or green mica/sericite ?									
878.34	**885.70**	**MAFw** **mafic volcanic flows** 878.34 - 885.7: Green-spotty brown mice (porphyroblasts?); fine to medium grained matrix, massive, homogeneous-equigranular; chlorite-sericite-quartz-fine grained biotite-brown mica-calcite trace; py in thin fractures; intermediated composition (?); dirty quartz vein at lower contact, biotite fading out at contacts (sharp); <<Alt: 878.34 - 887 Weak-Moderate Calcite>> <<Vein: 880 - 885.7 2% Calcite 60 deg. >> Calcite veinlets set and quartz-calcite veins averaging 8/m <<Struc: 879.9 - 879.91 Vein>> calcite veinlet set <<Struc: 884 - 884 Orientation Lock Angle>> Lock angle between orientation mark at 884 m and 887 m. <<Struc: 885.25 - 885.26 Vein>> quartz-calcite veinlet									
885.70	**887.00**	**SED** **Undifferentiated sedimentary rock** 885.7 - 887: Grey-dark green, dominantly fine grained, chlorite-sericite-biotite banded; wispy aggregated py-po; volcaniclastic-clastic interval from 885.70 m to 886.07 m with upper contact (medium strained lapilli-partially calcite altered), quartz-sericite; sharp lower contact, light shearing and sericite alteration. <<Min: 886.03 - 886.85 3% Min: Pyrrhotite>> in the foliation <<Min: 886.03 - 897.02 0.5% Min: Pyrite>> as clasts at upper and lower contact of the volcaniclastic unit <<Min: 886.85 - 897.02 0.5% Min: Pyrrhotite>> <<Alt: 885.7 - 887 Weak-Moderate Chlorite>> <<Alt: 885.7 - 888 Weak-Moderate Muscovite>> associated with volcaniclastic interval and light shearing	886.07	887.00	0.93	B00267801	0.007	-0.3	0.02	-0.01	0.02
887.00	**894.04**	**RHYcf** **Feldspar & quartz phyric rhyolite** 887 - 894.04: Light grey, porphyritic (1 to 3 cm feldspar phenocrysts-some randomly oriented/rotated (?)), well foliated, silicified, augen texture; quartz-sericite-biotite porphyroblasts; disseminated and aggregated py (1-2%), py clasts at upper and lower contact, light shearing and yellow-greenish alteration obscuring texture (sericite/epidote at lower contact ?); could be volcaniclastic (RHYvl, large clasts or porphyroblastic-RHYvx)). <<Alt: 887 - 894.22 Trace Calcite>> in rare fracture	887.00	888.00	1.00	B00267802	0.005	-0.3	0.02	-0.01	0.16

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Alt: 889.74 - 893.85 Strong Silicification>> can be considered a part of the lithology									
		<<Alt: 894 - 897.02 Weak Muscovite>> mostly associated with light shearing at contact between RHYcf and altered mudstone									
		<<Struc: 887 - 887 Orientation Lock Angle>> Lock angle between orientation mark at 884 m and 887 m, uncertainty of the measurement after 887 m.									
		<<Struc: 887 - 887.6 Shear>> weak shearing at feldspar porphyry upper contact, py clasts									
		<<Struc: 887.78 - 887.79 Vein>> quartz vein, lower contact									
		<<Struc: 888.9 - 888.91 Foliation>> foliation within felsic possibly volcaniclastic unit									
		<<Struc: 890 - 890 Orientation Lock Angle>> Lock angle between orientation mark at 890 m and 893 m.									
		<<Struc: 892.22 - 892.23 Foliation>> foliation within felsic possibly volcaniclastic unit									
		<<Struc: 893.9 - 894.2 Shear>> weak shearing at feldspar porphyry lower contact, py clasts									
894.04	**897.02**	**SED Undifferentiated sedimentary rock**	894.04	895.00	0.96	B00267803	0.006	-0.3	-0.01	-0.01	-0.01
		894.04 - 897.02: Blue-green-grey, fine grained matrix, mottled texture; chlorite-biotite-sericite, calcite blebs and patches, weakly foliated; locally bleached texture, possibly hydrothermally altered mudstone-siltstone; gradational lower contact interpreted as intensification of alteration, probably not a lithology change.									
		<<Alt: 894.22 - 902.66 Moderate Calcite>> and blebs	895.00	896.00	1.00	B00267804	0.005	-0.3	-0.01	-0.01	-0.01
		<<Alt: 894.28 - 897.02 Weak-Moderate Chlorite>> probably altered sediment, original ?	896.00	897.02	1.02	B00267805	0.006	-0.3	0.03	-0.01	0.01
897.02	**900.41**	**SED Undifferentiated sedimentary rock**	897.02	897.99	0.97	B00267806	-0.005	-0.3	0.04	-0.01	0.01
		897.02 - 900.41: Green-white bands and patches, fine grained matrix, poorly foliated (texture obscured by alteration), calcite veinlets; chlorite-calcite, biotite porphyroblasts (5%); wispy-patchy po and po-cpy; probably altered version of mudstone or siltstone (more permeable); gradational upper contact, sharp lower contact.									
		<<Min: 897.02 - 898.95 1% Min: Pyrrhotite>>	897.99	898.94	0.95	B00267807	-0.005	-0.3	-0.01	-0.01	0.01
		<<Min: 897.02 - 898.95 0.5% Min: Chalcopyrite>> associated with po	898.94	899.70	0.76	B00267808	0.064	-0.3	0.11	-0.01	0.02
		<<Min: 897.02 - 902.66 0.1% Min: Pyrite>>	899.70	900.41	0.71	B00267809	0.073	0.3	0.17	-0.01	0.02
		<<Min: 898.95 - 900.41 1% Min: Chalcopyrite>> associated with po									
		<<Min: 898.95 - 902.66 5% Min: Pyrrhotite>> and wispy									
		<<Alt: 897.02 - 900.41 Moderate-Strong Chlorite>> associated with po-cpy mineralization, could be original									
900.41	**902.66**	**SED Undifferentiated sedimentary rock**	900.41	901.67	1.26	B00267811	0.015	0.4	0.03	-0.01	0.01
		900.41 - 902.66: Grey-light blue, calcite banded and calcite-quartz veinlets, foliated, peppery biotite porphyroblasts; biotite-quartz-sericite-graphite; wispy-banded po at lower contact, trace cpy ; sharp upper contact (probably alteration front), blurry lower contact.									

From (m)	To (m)	Rocktype & Description
		<<Min: 900.41 - 902.66 0.5% Min: Chalcopyrite>> and wispy
902.66	**918.37**	**INT undifferentiated (granitic) intrusive rocks**
		902.66 - 918.37: Light grey-locally yellowish (sericite alteration patches associated with veining), biotite porphyroblasts (up to 20%), trace garnet, porphyritic texture-feldspar phenocrysts (up to 3 cm wide), moderately foliated; quartz-sericite-biotite-calcite trace (replacement); py (replacing biotite (?)- trace po (calcite-sericite alteration obscuring biotite-post biotite); blurry upper contact, gradational lower contact (margin?).
		<<Min: 902.66 - 929 0.1% Min: Pyrrhotite>> and aggregated
		<<Min: 902.66 - 946.04 0.5% Min: Pyrite>>
		<<Alt: 902.66 - 918 Weak-Moderate Garnet>> in porphyry
		<<Alt: 902.66 - 918.36 Weak Calcite>> more concentrated in veined muscovite altered interval-felsic intrusion
		<<Alt: 904.3 - 918 Weak-Moderate Muscovite>> associated with veining in intrusion, obscuring biotite porphyroblastic texture, sericite
		<<Alt: 918.36 - 929 Trace Calcite>> in veinlets
		<<Vein: 904.4 - 918 1% Calcite 60 deg. >> Calcite, quartz veinlets (and fractures) obscuring biotite porphyroblastic texture
		<<Struc: 911 - 914 Orientation Lock Angle>> Lock angle between orientation mark at 911 m and 914 m.
		<<Struc: 913.45 - 913.46 Shear>> fracture set (average measurement) in felsic intrusion, calcite infill, bleached halo
		<<Struc: 913.5 - 913.51 Foliation>> bleached foliation in felsic intrusion
918.37	**920.70**	**MAFi Mafic Intrusions (primarily footwall mafic intrusion)**
		918.37 - 920.7: Dark green-grey, medium grained, massive, calcite (lesser quartz) veinlets; chlorite-biotite-sericite quartz (intermediated composition); chill margin at upper and lower contact.
920.70	**929.00**	**INT undifferentiated (granitic) intrusive rocks**
		920.7 - 929: Light grey-locally yellowish (sericite alteration patches associated with veining), biotite porphyroblasts (up to 20%), trace garnet trace (seems to overgrow biotite (?)), porphyritic textured feldspar phenocrysts (up to 3 cm wide), weakly foliated; quartz-sericite-biotite; possibly chill margin at upper contact, sharp lower contact.
		<<Alt: 920.7 - 929 Weak-Moderate Muscovite>> sericite? Associated with calcite veining and obscuring biotite porphyroblastic texture
		<<Alt: 921 - 929 Weak Garnet>> in porphyry
		<<Struc: 921.65 - 921.66 Foliation>> foliation in felsic intrusion
		<<Struc: 922.72 - 922.73 Vein>> calcite veinlet in felsic intrusion, no envelop

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
901.67	902.66	0.99	B00267812	0.024	-0.3	0.02	-0.01	0.02

From (m)	To (m)	Rocktype & Description
929.00	**935.80**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**
		929 - 935.8: Black-dark blue with green patches, fine grained, well foliated, local narrow coarse grained texture (sandy interval?), biotite porphyroblasts and biotite trains along foliation; biotite patch at upper contact (chill margin); biotite-graphite-sericite-quartz; rare chloritic band associated with wispy po-cpy from 929.43 m to 929.56 m; disseminated py (0.5%); banded calcite and sericite; upper contact marked by coarser calcite-biotite patch showing py-cpy in calcite blebs.
		<<Min: 929 - 932 2% Min: Pyrrhotite>> possibly associated with CL alteration
		<<Min: 929 - 932 0.5% Min: Chalcopyrite>> possibly associated with CL alteration
		<<Min: 932 - 946.04 0.1% Min: Pyrrhotite>>
		<<Alt: 929 - 946.04 Weak Chlorite>> rare patch associated with wispy po-cpy
		<<Alt: 929 - 946.04 Moderate Calcite>> and banded
935.80	**940.85**	**SED** **Undifferentiated sedimentary rock**
		935.8 - 940.85: Green-brown-light grey, fine to medium grained, foliated to mottled texture (chlorite-biotite banded siltstone), calcite patches; chlorite-biotite-calcite-quartz-sericite; gradational upper contact, sharp lower contact.
940.85	**942.16**	**SLT** **Siltstone - fine-grained sedimentary rock (siliceous)**
		940.85 - 942.16: Green-pale green, fine grained, equigranular, very poorly foliated, rare calcite vein and calcite in matrix concentrated on the upper part of the unit; chlorite-biotite-sericite; sharp upper contact, gradational lower contact, more foliated and biotite-calcite input.
		<<Vein: 941.9 - 946.04 5% Quartz-Carbonate>> Quartz-calcite veins and veinlets (wispy), deformed and cross-cutting the fabric
		<<Struc: 941.51 - 965.1 Weak-Moderate Shear>> at contact between mudstone and possibly mafic dyke; 10% clay gouge
942.16	**946.04**	**SED** **Undifferentiated sedimentary rock**
		942.16 - 946.04: Green-brown with white blebs and veinlets, fine to medium grained, poorly foliated, chlorite-sericite bands, wispy-deformed quartz-calcite veining (10%); chlorite-sericite-biotite-quartz-calcite; wispy calcite and in matrix; fine grained elongated to fine grain trace py; gradational contacts.

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
929.00	930.00	1.00	B00267813	0.006	0.5	0.05	-0.01	0.02
930.00	931.00	1.00	B00267814	0.011	-0.3	-0.01	-0.01	0.01
931.00	932.00	1.00	B00267815	-0.005	-0.3	0.02	-0.01	-0.01

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

946.04 947.37 RHYcf Feldspar & quartz phyric rhyolite

946.04 - 947.37: Green-grey, glassy, poorly foliated, possibly clasts or phenocrysts; medium strain; quartz-sericite-biotite-rare calcite in fracture; strongly silicified; rare py in veinlets, rare po patch and trace cpy; sharp silicification front at contact with dirty rhyolite over 50 cm, weakly sheared lower contact; could be RHYcf/vx.

<<Min: 946.04 - 947.97 0.1% Min: Pyrite>>

<<Min: 946.04 - 947.97 0.1% Min: Pyrrhotite>>

<<Min: 946.04 - 947.97 0.1% Min: Chalcopyrite>> associated with po

<<Alt: 946.04 - 947.97 Strong Silicification>> part of the lithology

<<Alt: 946.04 - 947.97 Trace Calcite>>

947.37 950.42 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

947.37 - 950.42: Brown-beige-dark blue, fine grained, poorly foliated, siliceous; biotite-quartz-graphite-wispy to banded calcite (15%); chill margin at upper contact showing-bleached beige-pale green(very soft green mineral, talc?)-brown, silica flooded; elongated brown mineral (amphibole?); sharp lower contact.

<<Min: 947.97 - 950.42 2% Min: Pyrite>> and wispy

<<Min: 947.97 - 950.42 2% Min: Pyrrhotite>>

<<Alt: 947.97 - 964.51 Moderate-Strong Silicification>> possibly part of the lithology

<<Alt: 947.97 - 968 Weak-Moderate Calcite>> weakly in rhyolite, locally strong in mudstone

950.42 952.55 RHYcf Feldspar & quartz phyric rhyolite

950.42 - 952.55: Pale green-grey, porphyritic (clasts-crystal supported), 0.5 to 2 cm medium strained phenocrysts (partially replaced by calcite), well foliated; quartz-sericite-calcite (5%) with peppery mineral (biotite relics?); quartz-calcite pods and quartz-tourmaline veinlets, undeformed-cross-cutting foliation; sharp upper and lower contact weakly sheared; could be RHYcf.

<<Min: 950.42 - 952.55 0.5% Min: Pyrite>> with quartz-tourmaline vein

<<Vein: 950.75 - 950.76 80% Quartz-Tourmaline 25 deg. >> Quartz-tourmaline, irregular

<<Vein: 952.05 - 952.06 80% Quarzt-Tourmaline-Sulphide 30 deg. >> Quartz-tourmaline, trace calcite, py in selvage

<<Struc: 950.75 - 950.76 Vein>> tourmaline-quartz veinlet

<<Struc: 952.05 - 952.07 Vein>> quartz-tourmaline-py in selvage

From (m)	To (m)	Rocktype & Description

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
952.70	953.46	0.76	B00267846	0.005	-0.3	0.03	-0.01	0.01

952.55 956.53 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

952.55 - 956.53: Light brown-greenish-dark blue, fine grained to medium grained, well foliated to unfoliated; patchy altered intervals brown (brown mica rich) to bleached beige (silica flooded), possibly dyke swarm showing chill margin (possibly amygdule), calcite in fracture (wispy-deformed veinlets to stockwork texture); quartz-biotite-graphite-calcite; wispy py-po (5%); biotite-calcite-sericite-chlorite unit from 956.14 m to 956.63 m, fine to medium grained, dark grey, WKC (?).

<<Min: 952.55 - 956.63 3% Min: Pyrite>>

<<Min: 952.56 - 956.63 0.5% Min: Pyrrhotite>>

<<Vein: 953 - 955.7 5% Quartz-Carbonate>> Deformed to spider web quartz-calcite veinlets

<<Vein: 953.6 - 953.61 80% Tourmaline-Sulphide 20 deg. >> Tourmaline-lesser quartz, trace po

<<Struc: 952.55 - 952.55 Contact>> between rhyolite and mudstone

<<Struc: 952.8 - 952.81 dominant foliation>> marked by biotite trains

<<Struc: 953.6 - 953.61 Vein>> tourmaline-calcite-lesser quartz veinlet

<<Struc: 955.1 - 955.1 Contact>> between mudstone and possibly mafic dyke or altered sediments

956.53 957.61 RHYcf **Feldspar & quartz phyric rhyolite**

956.53 - 957.61: Light green-grey, porphyritic texture (clasts-phenocrysts up to 2 cm wide), poorly sorted, rotated crystals, fine grained matrix, moderately foliated; sericite-quartz-calcite replacement (2%); rare mica (possibly biotite altered chlorite); disseminated po (0.5%); sharp contacts, sawtooth lower contact; could be coherent rhyolite porphyroblastic of clasts/fragments (RHYcf).

<<Min: 956.63 - 957.61 0.1% Min: Pyrite>>

<<Min: 956.63 - 957.61 0.5% Min: Pyrrhotite>>

<<Struc: 956.63 - 956.63 Contact>> between mudstone and sediments

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
963.35	964.35	1.00	B00267847	0.016	-0.3	0.02	0.01	0.05

957.61 964.51 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

957.61 - 964.51: Black-dark blue, fine to very fine grained, moderately foliated; wispy calcite and calcite-quartz deformed veinlets, spider web texture, locally lithic fragments; dominantly strongly graphitic and siliceous, some calcite rich (limestone bands); graphite-quartz-biotite-calcite; wispy and fracture infilled py (3-5%) and lesser po; sawtooth upper contact, sheared lower contact, gougy (30% clay).

<<Min: 957.61 - 964.51 4% Min: Pyrite>>

<<Min: 957.61 - 964.51 0.1% Min: Pyrrhotite>>

<<Struc: 964 - 964.01 dominant foliation>> thin foliation in graphitic mudstone

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

964.51 966.12 MAFw mafic volcanic flows

964.51 - 966.12: Intermediate composition; dark green-beige-spotty black (biotite porphyroblasts); medium grained in the central part, finer grained at contact, bleached texture (biotite ghosts), biotite-sericite-chlorite-calcite (matrix and veinlets)-quartz; possibly amygdules at upper contact (suggesting extrusive origin); light shearing-faulting at upper and lower contact.

<<Min: 964.51 - 966.12 0.1% Min: Pyrite>> associated with quartz veinlet

966.12 972.75 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

966.12 - 972.75: Dark blue to gray (non carbonaceous), fine grained, moderately foliated, siliceous; faulted from 966.70 m to 967.30 m, non carbonaceous from 269.60 m to 971.75 m; quartz-biotite-sericite-lesser graphite and calcite in fault zone; from 971.75 m to 972.75 m, mottled texture (mesothermal fluids, possibly alteration front), original texture obscured by possibly potassic alteration and chlorite enrichment, dark brown mica porphyroblasts, calcite trace, silica flooded (hard); interpreted at mafic in unconsolidated sediments (?); sharp lower contact.

<<Min: 966.12 - 985 0.5% Min: Pyrrhotite>>

<<Min: 966.12 - 999.37 0.1% Min: Pyrite>> rare veinlets

<<Alt: 968 - 972.75 Moderate-Strong Silicification>> possibly potassic alteration

<<Alt: 968 - 976.9 Weak Calcite>> and blebs

<<Struc: 966.12 - 966.13 Weak-Moderate Shear>> at contact between possibly mafic dyke and mudstone (5% gouge)

<<Struc: 966.8 - 967.4 Moderate Fault>> possibly strong, clay gouge washed during drilling, weakly brecciated/sheared at lower contact

<<Struc: 968.7 - 968.71 dominant foliation>> wavy foliation, secondary foliation weakly developed

<<Struc: 971 - 971 Orientation Lock Angle>> Lock angle between orientation mark at 971 m and 874 m

972.75 975.07 MAFw mafic volcanic flows

972.75 - 975.07: Green-peppery black (biotite), fine grained matrix, massive, equigranular, chlorite-sericite-quartz, calcite in thin veinlets and calcite trace in matrix; interpreted as mafic flow with regards to texture and alteration above.

<<Struc: 972.75 - 972.75 Contact>> should be the contact, not 100% sure

975.07 976.56 SED Undifferentiated sedimentary rock

975.07 - 976.56: Grey-green-beige mottled texture, biotite (black mice) porphyroblasts, and fine grained biotite in matrix; sericite-quartz-biotite-chlorite (patchy)-calcite trace; calcite bands and fine grained mica patches at upper contact (margin), sharp lower contact.

<<Alt: 975.07 - 978.56 Moderate Silicification>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

976.56 977.83 MAFw mafic volcanic flows

976.56 - 977.83: Dark grey-black, fine to medium grained, equigranular-homogeneous, very weakly foliated; biotite-calcite-sericite; possibly amygdule and composition suggesting extrusive origin, could be sedimentary.

<<Alt: 976.9 - 977.85 Strong Calcite>>

977.83 978.86 SED Undifferentiated sedimentary rock

977.83 - 978.86: Dark green-grey-brown mottled texture, biotite porphyroblasts; silicified (?); quartz-sericite-biotite-lesser calcite-possibly kspar and brown mica; sharp contacts.

<<Alt: 977.85 - 991.4 Weak Calcite>>

978.86 981.44 MAFw mafic volcanic flows

978.86 - 981.44: Dark green, fine grained, very weakly foliated to massive, homogeneous, rare biotite porphyroblasts, calcite veinlets sets; chlorite-sericite-calcite-biotite-epidote(?: light green mineral in calcite patch); composition contrasting with silicified units above and underneath as well as lack of significant metasomatic alteration; sharp upper and lower contact.

<<Struc: 980 - 981 Vein>> calcite veinlet set, 6/m

981.44 989.60 SED Undifferentiated sedimentary rock

981.44 - 989.6: Light grey-blue-beige-dark green mottled texture, fine grained, weakly foliated; heterogeneous units possibly altered and silicified dominantly mudstone and siltstone (light grey); sericite-quartz-biotite; at 986.46 m, possibly preserved primary bedding; sharp contacts.

<<Min: 985 - 992 2% Min: Pyrrhotite>>

<<Alt: 981.44 - 989.61 Weak Chlorite>>

<<Alt: 981.44 - 999.37 Moderate-Strong Silicification>> possibly part of lithology, silica rich mudstone.

<<Struc: 984.25 - 984.26 Foliation>> possibly dominant foliation, obscured by drill grinding

<<Struc: 986 - 986 Orientation Lock Angle>> Lock angle between orientation mark at 983 m and 986 m

<<Struc: 986.35 - 986.36 Foliation>> looks like primary bedding (?)

<<Struc: 988 - 988.01 Foliation>> possibly dominant foliation

<<Struc: 988.44 - 988.44 Contact>> contact or dominant foliation

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
989.60	**999.37**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**									
989.6 - 999.37: Dark blue-grey, fine grained, moderately foliated, silicified; quartz-sericite-biotite-calcite (wispy and patchy)-graphite-lesser chlorite (patchy); wispy po-possibly (2%)-trace cpy; dominantly mudstone, more heterogeneous downhole (mottled texture increases); from 989.60 m to 990.35 m; light green, peppery biotite and biotite veinlets, silicified; chlorite-sericite-quartz-biotite, upper contact marked by fine grained biotite patch - possibly mafic dyke; bleached lower contact due to calcite-dolomite vein-breccia.									
<<Min: 992 - 999 5% Min: Pyrrhotite>>											
<<Alt: 991.4 - 997 Moderate Calcite>>											
<<Alt: 997 - 1017 Weak-Moderate Calcite>> and banded											
<<Vein: 995.9 - 995.92 Carbonate-Sulphide 45 deg. >> Py-calcite-lesser quartz veinlet											
<<Struc: 989.95 - 989.96 Vein>> biotite veinlet set											
<<Struc: 992 - 992 Orientation Lock Angle>> Lock angle between orientation mark at 992 m and 995 m											
<<Struc: 994.3 - 994.31 dominant foliation>> well marked foliation in mudstone											
<<Struc: 997.5 - 997.51 dominant foliation>> weakly variably over 1m interval											
999.37	**1017.00**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**	1001.61	1002.61	1.00	B00267848	0.006	-0.3	0.01	-0.01	-0.01
999.37 - 1017: Dark green-black and beige specks, equigranular, homogeneous; chlorite-feldspar-biotite (porphyroblasts and in foliation)-quartz-calcite-possibly amphibole; wispy cpy-po and trace cpy-py; bleached at upper contact (biotite phenoblast ghosts) probably due to vein-breccia from 999.86 m to 1000.00 m, calcite dolomite-angular clasts up to 4 cm wide; similar from 1010.28 m to 1010.80 m, stockwork texture, and bleached envelope over 30 cm on each side; dolomite-quartz-calcite-lesser sulfides; biotite phenoblast ghosts observed; two calcite-quartz-biotite 10 cm wide veins; calcite dots from 1016.00 m to 1017.00 m, (amygdule? Metadacite?; gradational upper contact as bleaching overprint the texture,1017.00 m E.O.H.										
<<Min: 999.37 - 1004 0.5% Min: Pyrite>> with cpy	1002.61	1003.61	1.00	B00267849	-0.005	0.4	0.03	-0.01	-0.01
<<Min: 999.37 - 1004 1% Min: Pyrrhotite>> with cpy											
<<Min: 1001.6 - 1007 0.5% Min: Chalcopyrite>> over estimated: less than 0.5% but not only trace											
<<Min: 1004 - 1017 0.1% Min: Pyrite>> with quartz-dolomite-calcite vein breccia											
<<Min: 1004 - 1017 0.1% Min: Pyrrhotite>>											
<<Alt: 999.5 - 999.8 Weak-Moderate Epidote>> possibly epidote (right colour)											
<<Alt: 999.9 - 1000 Strong Dolomite>> dolomite in vein breccia											
<<Alt: 1010.28 - 1010.8 Strong Dolomite>> dolomite in vein breccia											
<<Vein: 999.86 - 1000 60% Calcite-Dolomite 50 deg. >> Vein breccia, altered MAFi angular clasts up to 4 cm wide, dolomite-calcite-quartz, trace py											
<<Vein: 1008.1 - 1008.2 60% Carbonate-Biotite>> Fine grained biotite-calcite-quartz vein, irregular contacts											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 1008.7 - 1008.8 60% Carbonate-Biotite>> Fine grained biotite (or other dark brown mica)-calcite-quartz

<<Vein: 1010.28 - 1010.8 20% Calcite-Dolomite 45 deg. >> Spider web texture and breccia, dolomite-calcite-quartz, py in selvage

<<Struc: 999.86 - 1000 Vein>> angle estimated; vein breccia dolomite-calcite-quartz

<<Struc: 1000 - 1000.12 Shear>> brecciated interval associated with dolomite-calcite-quartz vein breccia

<<Struc: 1010.28 - 1010.8 Shear>> spider web-stockwork texture; dolomite-calcite-quartz-lesser py veining

End of Hole @ 1017

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-449

Prospect:	ABM	Hole Type:	DD	Survey Type:	GPS	Logged By:	Jerome de Pasquale
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Trent Newkirk	Date Logging Start:	9/19/2017
UTM Easting	414691	Core Size:	HQ3	Azimuth:	177.14	Date Logging Complete:	10/17/2017
UTM Northing:	6817002	Casing Pulled?:	No	Dip:	-83.34	Drill Company:	New Age
UTM Elev. (m):	1420	Casing Depth (m):	9	Length (m):	800	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	9/17/2017
Local Northing:		Cemented?:	No	Core Storage Loc.:	KZK Camp	Drill Completed:	9/30/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Exploration
Comments:						Parent Hole:	

Purpose: Collared for exploration and downhole seismic testing. Acoustic Impedance as well as Specific Gravity measurements were recorded every metre. Non-cemented at date and casing preserved for geophysics survey.
From top to 364.27 m, K17-449 consists dominantly in mudstone (MDS) and mafic volcanic sediments intercalated (MAFt/SLT/WCK/SED).
Porphyritic units (RHYcf) are intercepted intermittently from 364.27 m to 414.37 m.
Mafic and sedimentary sequences are observed from 414.37 m to 514.53 m.
From 514.5m to 800.00 m, K17-449 shows more intermediate volcaniclastic and felsic (silicified) units. Mudstone and mafic rocks are still present.
Alteration consists in calcite and biotite all along the hole, and sparse silicification. A possible tourmaline altered zone is encountered from 242.31 m to 296.00 m.
Pyrite and pyrrhotite-locally associated with trace chalcopyrite-are commonly seen from top to bottom. Also, pyrite veinlets crosscutting the foliation are frequently observed.
A poorly developed stringer zone mineralized sphalerite-galena-chalcopyrite-pyrite from 374.00 m to 375.55 m constitutes the most significant VMS signature interval recognized in K17-449. It occurs within felsic porphyritic unit (RHYcf).
K17-449 was completed and shut down at 800.00 m.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
4.5	-83.34	175.74	1.4	177.14	EZ-Gyro	New Age	9/17/2017		☑	
27.5	-83.33	178.88	1.4	180.28	EZ-Gyro	New Age	9/17/2017		☑	
57.5	-83.08	179.64	1.4	181.04	EZ-Gyro	New Age	9/18/2017		☑	
87.5	-83.05	186.41	1.4	187.81	EZ-Gyro	New Age	9/18/2017		☑	
117.5	-83.03	188.28	1.4	189.68	EZ-Gyro	New Age	9/18/2017		☑	
147.5	-82.63	190.39	1.4	191.79	EZ-Gyro	New Age	9/18/2017		☑	
177.5	-81.97	193.66	1.4	195.06	EZ-Gyro	New Age	9/19/2017		☑	
207.5	-81.86	195.96	1.4	197.36	EZ-Gyro	New Age	9/19/2017		☑	
237.5	-81.87	199.28	1.4	200.68	EZ-Gyro	New Age	9/20/2017		☑	
267.5	-82.17	201.06	1.4	202.46	EZ-Gyro	New Age	9/20/2017		☑	
297.5	-82.41	203.29	1.4	204.69	EZ-Gyro	New Age	9/21/2017		☑	
327.5	-82.42	206.84	1.4	208.24	EZ-Gyro	New Age	9/21/2017		☑	
357.5	-82.19	208.79	1.4	210.19	EZ-Gyro	New Age	9/22/2017		☑	
387.5	-82.15	210.43	1.4	211.83	EZ-Gyro	New Age	9/22/2017		☑	

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
417.5	-81.96	207.35	1.4	208.75	EZ-Gyro	New Age	9/22/2017		☑	
447.5	-81.94	208.53	1.4	209.93	EZ-Gyro	New Age	9/23/2017		☑	
480.5	-81.85	210.29	1.4	211.69	EZ-Gyro	New Age	9/23/2017		☑	
507.5	-82.03	209.14	1.4	210.54	EZ-Gyro	New Age	9/24/2017		☑	
537.5	-81.89	209.29	1.4	210.69	EZ-Gyro	New Age	9/24/2017		☑	
567.5	-81.86	209.19	1.4	210.59	EZ-Gyro	New Age	9/25/2017		☑	
597.5	-81.68	210.69	1.4	212.09	EZ-Gyro	New Age	9/25/2017		☑	
627.5	-81.6	211.51	1.4	212.91	EZ-Gyro	New Age	9/26/2017		☑	
657.5	-81.73	212.17	1.4	213.57	EZ-Gyro	New Age	9/27/2017		☑	
687.5	-81.7	214.29	1.4	215.69	EZ-Gyro	New Age	9/27/2017		☑	
717.5	-81.55	216.39	1.4	217.79	EZ-Gyro	New Age	9/28/2017		☑	
747.5	-81.54	218.11	1.4	219.51	EZ-Gyro	New Age	9/29/2017		☑	
777.5	-81.52	219.06	1.4	220.46	EZ-Gyro	New Age	9/29/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 7.90 OVBN Overburden

0 - 7.9: Mafic tuff and carbonaceous mudstone rubbles; 9 m of casing.

7.90 18.02 MAFta Mafic coarse grained to ash tuff

7.9 - 18.02: Wacke; light green-beige, fine grained, weakly foliated; rare more carbonaceous interval showing lithic fragments (at 8.50m); chlorite-sericite-calcite; rare py in veinlets; abundant calcite/calcite quartz veinlets and patches; from 16.00m to 18.02m, bleaching proximal to massive quartz-calcite veins, quartz-calcite vein (10cm) at lower contact.

<<Min: 7.9 - 22.5 0.1% Min: Pyrite>> Dominantly associated with quartz-calcite veins

<<Min: 7.9 - 33.1 0.1% Min: Pyrrhotite>>

<<Alt: 7.9 - 18.02 Strong Calcite>>

<<Vein: 14.5 - 17 25% Quartz-Carbonate>> Quartz-calcite veins/pods averaging 10 cm and representing 25% of the interval; bleached mafic tuff, poorly calcareous

18.02 22.50 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

18.02 - 22.5: Black-dark blue, fine to very fine grained, foliated, white irregular veinlets; graphite-quartz-calcite-biotite; faulted and weakly brecciated at upper contact, sharp lower contact;

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Alt: 18.02 - 22.5 Weak Calcite>> Calcite veining

<<Struc: 18.12 - 18.4 Weak Fault>> Quartz vein at upper contact, weakly brecciated at lower contact; 20% clay gouge

22.50 26.45 MAFta Mafic coarse grained to ash tuff

22.5 - 26.45: Green, fine to medium grained, possibly lapilli calcite replaced ; poorly foliated; chlorite-calcite-sericite-quartz;-biotite (trace); py disseminated trace; quartz-calcite veins (5%); sharp contacts.

<<Min: 22.5 - 33.1 0.5% Min: Pyrite>> Few py trains and few trace in bull quartz vein

<<Alt: 22.5 - 26.45 Weak-Moderate Calcite>> And veinlets

26.45 28.00 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

26.45 - 28: Black-dark blue, very fine grained, foliated (15cm gouge), weakly faulted; graphite-quartz-quartz-calcite thin bands weakly deformed; sharp contacts.

<<Alt: 26.45 - 68 Weak-Moderate Calcite>> Calcite band, locally strong, dominantly weak to moderate

28.00 33.10 MAFta Mafic coarse grained to ash tuff

28 - 33.1: Light green-beige (bleached), fine grained, poorly foliated; chlorite-sericite-calcite; py disseminated trace to 0.5%; possibly lapilli calcite replaced; interval marked by moderate faulting and large bull quartz veins (60% of the interval), mudstone intercalated-deformed-weakly sheared; sharp contacts.

<<Min: 31.2 - 33.1 0.1% Min: Galena>> In bull quartz vein, upper part of the unit

<<Vein: 31.2 - 33.1 90% Quartz-Carbonate-Sulphide>> Two bull quartz veins and 50 cm mudstone interval intercalated; white, calcite in fracture, py-gl (trace) at upper contact

<<Struc: 32 - 32.3 Weak-Moderate Fault>> Intensity could be over estimated, poor recovery and possibly gouge washed during drilling; 30% clay gouge in mudstone interval in between large bull quartz veins

33.10 80.90 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

67.76	68.96	1.20

33.1 - 80.9: Black-dark blue, fine to very grained, foliated, calcite bands and patches, thinly foliated; graphite (strong conductivity)-calcite-biotite-lesser quartz; locally deformed, crenulation cleavage and preserved lithic fragments; some large calcite patches (over 20cm), abundant calcite from 68.00 m to 81.07 m; light blue, strongly calcareous bands (limestone trend?); biotite associated with calcite patch and wispy po (5%)-wispy py ((2-3%)-cpy trace; some light green, fine grain, poorly foliated intervals (MAFt)-chlorite-sericite-calcite; sharp contacts; upper contact marked by massive quartz vein, py veins, py in quartz and brown mineral calcite-possibly tourmaline.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 33.1 - 70 5% Min: Pyrrhotite>> Irregular repartition, dominantly patchy and wispy; po seems to be more abundant that py

<<Min: 33.1 - 81.07 2% Min: Pyrite>> And disseminated

<<Min: 70 - 85.5 3% Min: Pyrrhotite>> And disseminated

<<Alt: 68 - 81.07 Strong Calcite>> And banded

<<Vein: 64.15 - 64.18 90% Quartz-Carbonate 20 deg. >> Dirty quartz, calcite needle in selvage (overgrowing), greyish stain (possibly tourmaline incorporated, fine grain py trace

<<Struc: 46.5 - 46.51 dominant foliation>>

<<Struc: 49.8 - 49.81 dominant foliation>>

<<Struc: 55.5 - 55.51 dominant foliation>>

<<Struc: 58.8 - 58.81 dominant foliation>>

<<Struc: 61.9 - 61.91 dominant foliation>> Bias compared to the other value

<<Struc: 75.95 - 75.96 dominant foliation>>

80.90	**95.62**	**MAFw**	**mafic volcanic flows**	80.90	81.80	0.90					

80.9 - 95.62: Dominantly green-light grey, fine grained, massive to very poorly foliated, equigranular matrix; chlorite-calcite; mixed with sediments/mudstone from 81.07 m to 85.44 m and foliated dark blue, calcite banded, py-po in foliated, fine grain, locally clastic MDS intervals; sawtooth contact between mafic flow and mudstone intervals showing thin margin py rich at contact and probably amygdules, calcite infill, well developed suggesting flow origin; dirty calcite-quartz-tourmaline vein at 95.00 m, multiphase, po patch-py in quartz; sharp sawtooth lower contact.

<<Min: 81.07 - 95.62 0.5% Min: Pyrite>> And vein associated with bull quartz

<<Min: 85.5 - 96 0.1% Min: Pyrrhotite>>

<<Min: 92.62 - 113.65 2% Min: Pyrite>> Disseminated and patchy

<<Alt: 81.07 - 95.62 Moderate-Strong Calcite>> And banded

<<Vein: 81.07 - 81.7 80% Quartz-Carbonate-Sulphide>> Massive quartz vein and calcite-brown mineral (mica?)-calcite; late fine grain py at upper contact, po-possibly brown sphalerite

<<Vein: 94.8 - 95.3 30% Quarzt-Tourmaline-Sulphide>> Dirty quartz-fibrous calcite-tourmaline (obscured selvage); patchy py-po

<<Struc: 86 - 86 Orientation Lock Angle>> Continuous orientation line from 86 m to 89 m

<<Struc: 86.8 - 86.81 Foliation>>

95.62	**113.65**	**MDS**	**Undifferentiated carbonaceous mudstone & tuffaceous mudstone**	108.30	109.00	0.70					

95.62 - 113.65: Black-dark blue, fine to very fine grained, well foliated ((more siliceous) to poorly foliated (more calcareous); graphite-biotite-quartz-calcite; calcite disseminated and calcite deformed discontinuous veinlets, locally calcite bands, light grey (limestone trend); po-py along the foliation (dominantly in slice rich interval), po-calcite patch, cpy trace, abundant sulfides income interval; sharp contacts.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Min: 96 - 113.65 5% Min: Pyrrhotite>> And wispy			109.00	110.00	1.00						
<<Min: 108 - 110 0.1% Min: Chalcopyrite>> Associated with py			110.00	110.75	0.75						
<<Alt: 95.62 - 101 Weak Calcite>>											
<<Alt: 101 - 113.65 Weak-Moderate Calcite>> Locally strong (bands)											
<<Struc: 97.5 - 97.51 dominant foliation>>											
<<Struc: 108.25 - 108.26 dominant foliation>>											
113.65	**114.96**	**WCK Wacke - sandstone with 15-75% clay matrix**									
113.65 - 114.96: Light green-grey, fine to very fine grained, possibly grain size sorted intervals alternating (bedding relics?), poorly foliated, calcite veining; chlorite-sericite-calcite (disseminated in matrix)-lesser quartz-rare biotite porphyroblasts; gradational lower contact, sediment intercalated.											
<<Min: 113.65 - 123.64 3% Min: Pyrrhotite>> And wispy											
<<Min: 113.65 - 127.5 1% Min: Pyrite>>											
<<Alt: 113.65 - 116 Weak-Moderate Calcite>> And banded; strong at upper contact											
114.96	**123.64**	**WCK Wacke - sandstone with 15-75% clay matrix**									
114.96 - 123.64: Dark grey, fine grained, weakly foliated, calcite flooded (veinlets and patches, 15%); sericite-chlorite-calcite-biotite; biotite porphyroblasts associated with calcite and within the foliation; wavy-strongly deformed calcite veinlets, quartz-calcite veinlets , locally patch over 8 cm, (limestone trend); po-po disseminated and po patch more abundant on the lower part; gradational upper contact, sharp lower contact.											
<<Alt: 116 - 123.64 Moderate-Strong Calcite>> Limestone trending											
<<Struc: 118.9 - 118.91 Foliation>> Foliation not well developed											
<<Struc: 120.6 - 120.61 dominant foliation>>											
123.64	**127.50**	**MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone**	126.50	127.50	1.00						
123.64 - 127.5: Black-dark blue, very fine grained, poorly foliated;, lithic fragments surrounded by calcite (pressure shadow texture); graphite-biotite-calcite-quartz; po patches and in foliation, aggregated associated with calcite patches, fine grain py clots and disseminated, cpy trace, abundant po at lower contact; beige-fine grain-po rich xenolith at lower contact, wacke composition; sawtooth lower contact.											
<<Min: 123.64 - 128.3 5% Min: Pyrrhotite>> And disseminated in chloritic unit.											
<<Min: 126 - 128 0.1% Min: Chalcopyrite>> And in quartz vein associated with po											
<<Alt: 123.64 - 127.5 Weak Calcite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
127.50	**130.15**	**SEDc Calcareous sedimentary rock**	127.50	128.50	1.00						
127.5 - 130.15: Medium green-beige, fine grained, non foliated to poorly foliated (po elongated suggesting weak fabric), quartz-calcite vein and patch; chlorite-sericite-calcite-biotite porphyroblasts (1-2%; fine grain elongated po disseminated , abundant at upper contact (similar to xenolith above); glassy quartz vein containing po-cpy-calcite-and sediment inclusion, crosscut by late calcite veinlet-dirty tourmaline (?); veinlets showing calcite selvage and very fine grain py in the centre part (multiphase(?)); sharp sawtooth upper and lower contact; this unit could be mafic flow but not strong evidence (calcite dots could be amygdules, very hypothetic).										
<<Min: 127.5 - 130.15 0.1% Min: Pyrite>>											
<<Min: 128.3 - 132.5 1% Min: Pyrrhotite>>											
<<Alt: 127.5 - 130.15 Moderate-Strong Calcite>>											
<<Vein: 127.7 - 127.85 80% Quartz-Carbonate-Sulphide 50 deg. >> Quartz-calcite-po-cpy-lesser py vein; see structure											
<<Vein: 127.8 - 127.8 80% Quartz-Carbonate 35 deg. >> Calcite-lesser quartz veinlet crosscutting massive quartz-calcite-sulphide vein; see structure											
<<Struc: 127.7 - 127.8 Vein>> Mineralized quartz-calcite vein; po-cpy (trace)											
<<Struc: 127.8 - 127.81 Vein>> Calcite-lesser quartz veinlet crosscutting massive quartz-calcite-po-cpy vein											
130.15	**137.03**	**MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone**	133.16	134.00	0.84						
130.15 - 137.03: Black-dark blue, very fine grained, poorly foliated; graphite-lesser quartz-calcite-possibly biotite; fine grain to very fine grain po-cpy patch, po -calcite small patch and wispy; rare py veinlet; numerous graphitic lithic fragments (2 to 4 cm wide) surrounded by quartz, poorly deformed, wrapped by foliation; sharp contacts.											
<<Min: 130.15 - 137.54 0.5% Min: Pyrite>> Rare thin veinlets crosscutting the foliation			134.00	134.85	0.85						
<<Min: 132.5 - 137.03 5% Min: Pyrrhotite>> Very fine grain, brassy; and clots disseminated											
<<Min: 137 - 142.24 0.5% Min: Pyrite>> Associated with po											
<<Alt: 130.15 - 139 Weak-Moderate Calcite>>											
<<Struc: 136.8 - 136.81 dominant foliation>>											
137.03	**142.24**	**SEDc Calcareous sedimentary rock**	137.52	138.40	0.88						
137.03 - 142.24: Green, fine grained, equigranular, homogeneous, banded (or deformed foliation); chlorite-calcite-biotite-lesser quartz; po patch in quartz vein and in veinlets, cpy trace; interval marked by bull quartz veins (one metre intercept) and quartz-calcite intense veining as well as crosscutting dirty tourmaline-po-py veinlets; interpreted as sedimentary unit hydrothermally altered; sharp upper contact, quartz vein at lower contact.											
<<Min: 137.03 - 142.24 2% Min: Pyrrhotite>> In quartz vein and tourmaline vein			138.40	139.30	0.90						
<<Min: 140.45 - 140.46 0.1% Min: Chalcopyrite>> In tourmaline veinlet, possibly chalcopyrite			139.30	140.30	1.00						
<<Alt: 139 - 142.24 Strong Calcite>> And banded			140.30	141.30	1.00						

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Vein: 137.56 - 138.74 95% Quartz-Pyrrhotite>> Bull quartz vein, po and mica patches,	141.30	142.24	0.94						

<<Vein: 139 - 142.24 20% Quartz-Carbonate-Sulphide>> Abundant calcite-quartz veining, irregular, po-py, mica patches, dirty-multiphase vein/pods

<<Vein: 140.45 - 145.46 90% Tourmaline-Sulphide 25 deg. >> Shallow angle dirty tourmaline-po-py veinlet, calcite, deformed (late deformation), crosscutting calcite veining

142.24 152.85 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

142.24 - 152.85: Dark blue-grey, very fine grained, weakly to moderately foliated, calcite flooded (20%); graphite-calcite-biotite; patchy calcite-biotite porphyroblasts, limestone trend; locally lithic fragments; interval marked abundant calcite. Po-cpy (trace) patch, lesser po (disseminated) in calcite rich interval; weakly to moderately faulted from 151.00 m to 152.00 m; quartz vein at upper contact, sharp lower contact.

<<Min: 142.24 - 155.4 0.1% Min: Pyrite>> Rare veinlet

<<Min: 142.24 - 155.4 0.1% Min: Pyrrhotite>>

<<Alt: 142.24 - 152.85 Moderate-Strong Calcite>>

<<Struc: 143.6 - 143.61 dominant foliation>>

<<Struc: 148.95 - 148.96 Foliation>> Probably dominant foliation, not well marked

<<Struc: 151 - 152 Moderate Fault>> Fault breccia in mudstone; clasts up to 5 cm wide, 20% gouge

152.85 155.40 SLT Siltstone - fine-grained sedimentary rock (siliceous)

152.85 - 155.4: Pale green, fine grained equigranular matrix, white specks poorly foliated; (altered feldspar clasts?); chlorite-calcite-sericite-biotite-lesser quartz; py veinlet crosscutting orange-pinkish calcite band (foliaform), calcite-py-tourmaline veinlet, po disseminated elongated along the foliation (weak fabric).

<<Alt: 152.85 - 155.4 Strong Calcite>>

<<Vein: 154.7 - 154.72 90% Tourmaline-Sulphide 25 deg. >> Calcite-pyrite-dirty tourmaline veinlet, see structure table

<<Struc: 154.7 - 154.72 Vein>> Calcite-py-dirty tourmaline veinlet

<<Struc: 154.75 - 154.76 Foliation>> Marked by elongated-wispy calcite clots

155.40 166.25 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

155.4 - 166.25: Dark blue-black, very fine grained, foliated-local offset and secondary foliated and crenulated cleavage; locally lithic fragments; graphite-quartz-calcite-biotite-chlorite patch; patchy and wispy calcite (15%), biotite along the foliation and disseminated porphyroblasts; po patch-cpy trace and po disseminated, wispy py and veinlets; sharp upper and lower contacts.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 155.4 - 182 0.5% Min: Pyrrhotite>> Associated with calcite

<<Min: 155.4 - 194 0.5% Min: Pyrite>> And fracture filling, late fine grain py veinlets crosscutting foliation

<<Alt: 155.4 - 185.63 Moderate Calcite>> And banded

<<Struc: 158.4 - 163.8 Crenulation cleavage>> Interval showing crenulation cleavage and deformation-possibly secondary foliation and pseudo fragmental texture

166.25 168.54 MAFt **Undifferentiated mafic volcaniclastic**

166.25 - 168.54: Pale green-dark fine to medium grained, foliated; chlorite-calcite-biotite-graphite (?) thin bands locally crosscutting calcite bands; patchy and banded calcite (25%); biotite porphyroblasts (3-5%); could be logged as a chloritic SED; sharp contacts.

<<Struc: 166.72 - 166.73 Foliation>> Foliation not well marked

168.54 185.13 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

168.54 - 185.13: Dark blue-grey-black, fine to very fine grained, well foliated; graphite-biotite-calcite-chlorite (bands0-lesser quartz; pa clots and patches associated with calcite and biotite porphyroblasts; some light grey-coarser grain-non carbonaceous bands (sericitic?)-weakly siliceous; chloritic interval from 177.63 m to 177.20 m; rare lithic fragments; some interval with well marked planar foliation; sharp contacts.

<<Min: 182 - 185.43 2% Min: Pyrrhotite>>

<<Struc: 169.9 - 169.91 dominant foliation>> Well marked

<<Struc: 174.8 - 175 Weak Fault>> Minor fault gouge190.57

<<Struc: 175.9 - 175.91 dominant foliation>>

<<Struc: 180.6 - 180.61 dominant foliation>> Well marked

<<Struc: 181.9 - 181.91 dominant foliation>> Well marked

185.13 187.75 MAFt **Undifferentiated mafic volcaniclastic**

185.13 - 187.75: Green-dark green, fine to medium grained, weakly foliated, homogeneous; chlorite-calcite-biotite-possibly sericite; biotite porphyroblasts and very fine grain in matrix (?), calcite specks (could be amygdules but no strong evidence of flow); sharp contacts.

<<Min: 185.43 - 198 1% Min: Pyrrhotite>>

<<Alt: 185.63 - 187.75 Moderate-Strong Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

187.75 190.50 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

187.75 - 190.5: Black-dark green, fine to very fine grained, foliated; carbonaceous mudstone mixed with chloritic material; graphite-chlorite-calcite-quartz-biotite; po clots, wispy py and veinlet, possibly cpy trace; strong calcite content in chloritic interval; sharp upper contact, gradational lower contact, weakly faulted.

<<Alt: 187.75 - 190.5 Moderate Calcite>>

190.50 193.15 MAFt **Undifferentiated mafic volcaniclastic**

190.5 - 193.15: Green, fine to medium grained, massive to calcite banded (foliaform); chlorite-calcite-biotite; abundant calcite in matrix and bands; fine grained py disseminated (trace); gradational contacts.

<<Alt: 190.5 - 193.15 Strong Calcite>> And banded

<<Struc: 190.55 - 191 Moderate Fault>> 50 cm of gouge washed during drilling

193.15 220.20 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

From (m)	To (m)	Width
207.31	208.40	1.09

193.15 - 220.2: Interval marked by carbonaceous mudstone and chloritic bands interlayered (mottled texture locally); black to dark green-banded, fine to very fine grained, dominantly well foliated; biotite-graphite (?)-chlorite-calcite-lesser quartz (concentrated in carbonaceous bands); some light grey strongly calcareous bands; biotite within the foliation and porphyroblasts (3%); possibly primary sedimentary beds observed in thin bands (ripple/crosscutting beds?); gradational upper contact, weakly faulted at lower contact.

<<Min: 194 - 234.21 0.5% Min: Pyrite>> And fracture filling

<<Min: 198 - 200 2% Min: Pyrrhotite>>

<<Min: 200 - 205.3 0.5% Min: Pyrrhotite>>

<<Min: 205.3 - 213.2 3% Min: Pyrrhotite>>

<<Min: 213.2 - 234.21 0.5% Min: Pyrrhotite>>

<<Alt: 193.15 - 220.2 Moderate Calcite>> And patchy

<<Struc: 199.8 - 199.81 dominant foliation>> Well marked

<<Struc: 208.95 - 208.96 dominant foliation>> Well marked

<<Struc: 214.6 - 214.61 dominant foliation>> Well marked

<<Struc: 217.8 - 217.81 dominant foliation>> Well marked

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

220.20 226.64 SED **Undifferentiated sedimentary rock**

220.2 - 226.64: Pale green-green-patchy biotite-calcite, fine grained, banded tom poorly foliated,; chlorite-biotite-calcite-quartz (veinlets-silica flooded?)-possibly ankerite specks; biotite porphyroblasts associated with calcite patches; two massive quartz vein (20 to 30 cm wide); weakly faulted at contacts; could be interpreted as the top of mafic flow.

<<Alt: 220.2 - 226.64 Weak-Moderate Calcite>> And veinlet

<<Vein: 221 - 221.35 70% Calcite>> Calcite vein/pod

<<Vein: 225.9 - 226.15 90% Quartz-Carbonate>> Quartz-calcite massive vein with mica inclusion in fracture

<<Struc: 223.5 - 226.44 Weak Fault>> Fractured interval, minor gouge

226.64 234.21 MAFw **mafic volcanic flows**

226.64 - 234.21: Possibly MAFi, intermediate composition; dark green-grey-peppery biotite, medium grained, massive to very poorly foliated; chlorite-actinolite (?)-quartz-biotite-calcite; biotite abundant biotite porphyroblasts, pervasive calcite in matrix and veinlets; py veinlet crosscutting weak fabric; finer grain at contacts, possibly epidote at lower contact, sharp.

<<Alt: 226.64 - 234.21 Moderate-Strong Calcite>>

234.21 239.29 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

234.21 - 239.29: One metre of material washed during drilling, clay gouge (?); dark blue-black, locally green-grey (chloritic-calcite-sericite (?)), fine grained, foliated; graphite-biotite-quartz-calcite-chlorite (patch); wispy and patchy py, wispy calcite (10-15%); po concentrated in green-grey chloritic interval and quartz vein, possibly galena trace.

<<Min: 234.21 - 242.31 0.1% Min: Pyrite>>

<<Min: 234.21 - 260.9 0.1% Min: Pyrrhotite>>

<<Alt: 234.21 - 242.31 Moderate Calcite>> And in fracture

<<Vein: 239.05 - 239.11 80% Quartz-Carbonate>> Quartz-calcite vein, possibly galena trace

<<Struc: 235 - 236.4 Moderate Fault>> One metre of gouge washed during drilling

<<Struc: 238.2 - 238.21 dominant foliation>> Well marked

239.29 242.31 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

239.29 - 242.31: Dark blue, glassy (cherty)-very fine grained, weakly foliated, fractured; quartz-biotite-calcite (15%); narrow possibly mafic dyke interval at lower contact (brown-micaceous-calcite-possibly amygdules), followed by massive quartz vein; sharp lower contact.

<<Alt: 239.29 - 242.41 Moderate-Strong Silicification>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

242.31 251.42 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

242.31 - 251.42: Black-dark blue-very fine grained-foliated-graphite-quartz-calcite; abundant massive quartz veins; foliated-biotite rich interval intercalated, late fine grained py in fracture, tourmaline patches, some lithic fragments 1 to 3 cm wide (silica rich); quartz-calcite veins strongly fractured.

<<Min: 242.31 - 251.42 0.5% Min: Pyrite>>

<<Alt: 242.31 - 248.5 Moderate-Strong Tourmaline>> Black needles observed, probably tourmaline (alteration?)

<<Alt: 242.31 - 251.42 Moderate Calcite>>

<<Vein: 242.5 - 242.8 80% Quartz-Tourmaline>> Bull quartz vein-calcite patch, tourmaline rich intrusion or late veinlet

<<Vein: 246.9 - 250.35 70% Quarzt-Tourmaline-Sulphide>> Abundant bull quartz interval associated with tourmaline-calcite and pyrite

<<Struc: 247.65 - 247.66 dominant foliation>> Marked by tourmaline bands

<<Struc: 250.7 - 250.71 Foliation>> Foliation not well developed

251.42 258.40 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

251.42 - 258.4: Grey-pale blue, very fine grained to glassy, foliated, locally brecciated; quartz-biotite-graphite-calcite in fracture and patchy in massive quartz vein-silicified halo; from 252.65 m to 253 m, bleached texture showing porphyroblastic texture (possibly biotite ghosts); from 256 m to 257.05 m, brecciated quartz veins, clasts up to 5 cm wide, py patch, sharp lower contact; At 258.40 m gradational lower contact.

<<Min: 251.42 - 277.09 0.5% Min: Pyrite>> In quartz-calcite vein, one patch observed and thin veinlet along the core axis (crosscutting foliation)

<<Alt: 251.42 - 257.05 Strong Silicification>> Associated with vein breccia and massive quartz veins

<<Alt: 251.42 - 277.09 Weak Calcite>> And patchy associated with quartz vein

<<Vein: 253.1 - 257 60% Quartz-Carbonate-Sulphide>> Massive bull quartz vein and vein breccia with possibly envelop responsible of silicified zone; pyrite patch

<<Struc: 253 - 259.5 Strong Fault>> Silicified zone, strongly fractured, quartz vein breccia, fault gouge over 20 cm and rubbles

258.40 260.90 MAFi **Mafic Intrusions (primarily footwall mafic intrusion)**

258.4 - 260.9: Pale green-beige, medium to coarse grained, lapilli/crystal (fragments?), poorly sorted, weakly foliated; bleached, rare rounded blue quartz eyes observed; muscovite-sericite (?)-feldspar-lesser quartz; intermediate composition; pyrite disseminated and veinlet; possibly altered RHYv; weakly faulted at lower contact (gouge, 20% clay).

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
260.90	**277.09**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**	275.18	275.93	0.75						
260.9 - 277.09: Black-dark blue, very fine grained, foliated, ; graphite-quartz-biotite-lesser calcite; biotite porphyroblasts associated with calcite patches; po blebs and clots and abundant po in massive quartz vein, py in late fracture/veinlet and Rare patches; weakly faulted upper contact, bull quartz vein with silica rich envelop at lower contact, tourmaline patch, silica banded(silicified ?),dolomite patch.											
<<Min: 260.9 - 277.09 5% Min: Pyrrhotite>> And patch in quartz-calcite massive vein			275.93	277.09	1.16						
<<Alt: 260.9 - 277 Moderate Tourmaline>> Black needle observed, possibly tourmaline (alteration?), strong proximal to quartz massive quartz vein											
<<Alt: 277 - 282 Weak Chlorite>> Associated with quartz vein and biotite porphyroblasts trains											
<<Vein: 276.75 - 277.09 90% Quartz-Tourmaline>> Massive quartz vein, tourmaline patch and po patch, silica-tourmaline banded at upper contact (envelop)											
<<Struc: 260.9 - 260.95 Weak Fault>> Rubble and sand, minor fault											
<<Struc: 265.6 - 265.61 Foliation>> Foliation not well marked, wavy to crenulated, average measurement											
<<Struc: 269 - 269.6 Crenulation cleavage>> Interval showing crenulation cleavage											
<<Struc: 274.5 - 274.51 Foliation>> Foliation not well marked, wavy to crenulated, average measurement											
277.09	**289.65**	**SLT** **Siltstone - fine-grained sedimentary rock (siliceous)**	287.00	288.00	1.00						
277.09 - 289.65: Pale green-pale brown, fine grained, wispy-vein to patchy calcite; chlorite rich, silty to fine sand, poorly foliated; feldspar-biotite-sericite (?)-calcite-lesser quartz-chlorite patch-peppery biotite porphyroblasts; abundant disseminated and patchy po, fine grained py veinlet; locally silica flooded, calcite altered (possibly metasomatic alteration), massive quartz vein showing biotite porphyroblasts in selvage and chlorite inclusion. Gradational lower contact, alteration fading out.											
<<Min: 277.09 - 290 0.5% Min: Pyrite>> Rare veinlets crosscutting the foliation (287.83 m)											
<<Min: 277.09 - 290 5% Min: Pyrrhotite>>											
<<Alt: 277.09 - 289.65 Moderate-Strong Calcite>> And in matrix (pervasive)											
<<Vein: 277.09 - 284.5 40% Quartz-Carbonate>> Strongly calcite-quartz veined interval											
<<Vein: 287.3 - 287.84 90% Pyrite 60 deg. >> Pyrite veinlet crosscutting the foliation, discontinuous, associated with calcite patch											
<<Struc: 284.9 - 284.91 Foliation>> Foliation not well marked											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

289.65 303.25 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

289.65 - 303.25: Black-dark blue, very fine grained, poorly to moderately foliated, wavy to weakly crenulated foliation; graphite-quartz-calcite-biotite-locally abundant tourmaline (alteration?-black needles); disseminated and blebby po, sharp lower contact.

<<Min: 290 - 304.81 3% Min: Pyrrhotite>> Locally associated with biotite-ankerite patch and wispy calcite bands

<<Min: 290 - 323 0.1% Min: Pyrite>> Wispy fine grained py crosscutting foliation, thin veinlets

<<Alt: 289.65 - 293.5 Weak-Moderate Calcite>>

<<Alt: 290 - 296 Moderate-Strong Tourmaline>> Black needle observed, possibly tourmaline (alteration?)

<<Alt: 293.5 - 298.7 Moderate-Strong Calcite>>

<<Alt: 298.7 - 304.81 Weak-Moderate Calcite>> Associated with quartz-calcite vein

<<Vein: 294.8 - 294.83 90% Quartz-Tourmaline 25 deg. >> Dirty tourmaline veinlet, quartz-lesser calcite in selvage

<<Vein: 299.8 - 300.06 80% Quartz-Carbonate-Sulphide>> Multiphase quartz-calcite vein,-glassy quartz-mudstone inclusion showing mica envelop, po patch and late py

<<Vein: 300.7 - 300.71 1% Carbonate-Sulphide 30 deg. >> Fine grained pyrite veinlet, calcite veinlet set

<<Struc: 295.25 - 295.26 dominant foliation>>

<<Struc: 298.3 - 298.31 dominant foliation>>

303.25 304.23 SED Undifferentiated sedimentary rock

303.25 - 304.23: Pale green-grey, coarse grained to gravel size fragment or clasts, poorly sorted-sub angular, fine grain matrix; quartz-sericite-biotite (porphyroblasts-1%)-trace calcite-possibly feldspar-fine grained ankerite; fine grained py blebs (clasts?) and in thin fracture (veinlet) as well as coarse grained euhedral in matrix (0.5%), fine grained po disseminated more abundant at lower contact; Possibly RHYvx; sharp contacts.

<<Struc: 303.25 - 304.23 Weak-Moderate Fault>> Clastic, possibly healed fault-breccia

304.23 315.90 SEDc Calcareous sedimentary rock

304.23 - 315.9: Pale green-locally blue-grey, fine grained, poorly foliated to calcite banded; chlorite-calcite-ankerite specks-biotite-lesser quartz-some carbonaceous intervals over 50 cm wide; biotite veinlet at 308.80 m; disseminated po (2%)-fine grained wispy py (in late veinlets), trace cpy; strongly calcareous (intensity increases at lower contact from calcite banded to pervasive; possibly siltstone or wacke; weakly faulted lower contact (10-20% gouge over 10 cm), narrow vein breccia.

<<Min: 304.81 - 316 0.5% Min: Pyrrhotite>>

<<Min: 311 - 329.5 0.1% Min: Chalcopyrite>> Associated with po

<<Alt: 304.81 - 329.55 Moderate Calcite>> And banded, locally strong

<<Vein: 308.83 - 308.84 80% Carbonate-Biotite 75 deg. >> Calcite-biotite veinlet

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Struc: 304.23 - 304.23 Contact>> Contact between brecciated/bleached/silica flooded possibly sediment and carbonaceous mudstone									
		<<Struc: 304.81 - 304.81 Contact>> Lower contact between mudstone and chloritic sediment									
		<<Struc: 315.7 - 316.15 Moderate Fault>> 20% clay gouge and brecciated mudstone									
315.90	**342.52**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**	326.80	327.72	0.92						
		315.9 - 342.52: Dark blue-pale green, very fine grained, dominantly poorly foliated-locally carbonaceous and chloritic bands alternated (laminated); graphite-biotite-chlorite-sericite-lesser quartz-calcite banded; wispy to patchy po, wispy py and thin veinlet (fracture) crosscutting the foliation), trace cpy associated with po; some calcite-quartz bull veins locally mineralized po-cpy (remobilization)weakly faulted-vein breccia at upper contact, gradational lower contact less graphite, sericite bands and more silica content (coarser grain, light grey, siltstone)									
		<<Min: 316 - 327 3% Min: Pyrrhotite>>	327.72	328.72	1.00						
		<<Min: 323 - 329.5 3% Min: Pyrite>> Thin veinlet or fracture infill, fine grained pyrite, and wispy foliaform	328.72	329.55	0.83						
		<<Min: 327 - 329.5 5% Min: Pyrrhotite>> And patchy	338.51	339.51	1.00						
		<<Min: 329.5 - 342.52 0.1% Min: Pyrite>>									
		<<Min: 329.5 - 343.52 3% Min: Pyrrhotite>> And patch in quartz-calcite vein									
		<<Min: 336 - 339.511 0.1% Min: Chalcopyrite>> Associated with po in quartz-calcite vein in po patch									
		<<Alt: 329.55 - 342.8 Weak Calcite>> In quartz-calcite massive vein and weakly disseminated									
		<<Alt: 342 - 345 Weak-Moderate Muscovite>> Sericite bands									
		<<Vein: 334.9 - 335.08 90% Quartz-Carbonate>> Massive calcite-quartz vein									
		<<Vein: 338.9 - 339.05 75% Quartz-Carbonate-Sulphide>> Massive quartz-calcite pod, po-cpy patch									
		<<Vein: 340 - 341.1 50% Quartz-Carbonate>> Interval containing multiple massive calcite (dominantly)-quartz veins and pods									
		<<Struc: 319.95 - 319.96 Foliation>>									
		<<Struc: 331.9 - 331.91 Foliation>> Average measurement, two foliations marked, crenulation									
		<<Struc: 333.4 - 333.41 Foliation>>									
342.52	**357.53**	**SED** **Undifferentiated sedimentary rock**									
		342.52 - 357.53: Pale green-spotty white (quartz-calcite possibly altered lapilli or reworked material-medium strained), fine grained matrix, poorly foliated; chlorite-calcite-quartz-lesser biotite-possibly actinolite-epidote patch; rare disseminated po and trace cpy, trace py; some narrow fault gouge intervals, locally brecciated; gradational upper contact, sharp lower contact.									
		<<Min: 342.52 - 358.07 0.1% Min: Pyrrhotite>>									
		<<Min: 342.52 - 364.27 0.1% Min: Pyrite>>									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 342.52 - 364.27 0.1% Min: Chalcopyrite>>

<<Alt: 342.8 - 358.07 Moderate-Strong Calcite>> Clasts (fragments or crystal) replacement and in matrix

<<Alt: 354.8 - 355 Moderate Epidote>> Possibly epidote alteration patch

<<Struc: 346.75 - 346.76 Foliation>> Foliation not well marked

<<Struc: 349 - 349.5 Weak Fault>> Fractured along the core axis

<<Struc: 349.6 - 349.61 Foliation>> Foliation not well marked

357.53 362.76 MAFw mafic volcanic flows

357.53 - 362.76: Green-dark green, dominantly medium grained, poorly foliated, granular texture; chlorite-biotite-calcite; calcite veined (multiphase), and calcite patches, upper contact marked by white specks elongated mineral (10%-feldspathoid? andalousite? in homogeneous in fine grained dark green matrix (chlorite-calcite-quartz), sharp contacts.

<<Min: 358.07 - 364.27 1% Min: Pyrrhotite>> And rare bands associated with calcite and trace cpy

<<Alt: 358.07 - 364.27 Moderate Calcite>>

362.76 364.27 SED Undifferentiated sedimentary rock

362.76 - 364.27: Pale green-grey-peppery biotite porphyroblasts, fine to medium grained, well foliated; chlorite-sericite-biotite-calcite-lesser quartz; rare calcite veinlets, secondary foliation developed; rare po patch, trace cpy; sharp upper contact, gradational lower contact.

364.27 366.96 RHYcf Feldspar & quartz phyric rhyolite

From (m)	To (m)	Width
364.27	365.00	0.73

364.27 - 366.96: Grey-pale green, lapillitic, fine grained groundmass, medium strained clasts/crystals partially ankerite altered, foliated; rare possible feldspar porphyry associated with quartz eyes aggregated; late py veinlets crosscutting foliation, tourmaline veinlet offsetted by weakly sheared-py mineralized fracture; rare py disseminated, abundant fine pyrite veinlets; sharp contacts; could be RHYvl.

<<Min: 364.27 - 366.96 3% Min: Pyrite>> Fine grained py in thin veinlets crosscutting the foliation

From (m)	To (m)	Width
365.00	366.00	1.00

<<Min: 364.27 - 366.96 0.1% Min: Pyrrhotite>>

From (m)	To (m)	Width
366.00	366.96	0.96

<<Alt: 364.27 - 366.96 Weak-Moderate Calcite>> Replacing clasts/crystals

<<Vein: 364.27 - 366.96 1% Pyrite>> Py veinlets crosscutting the foliation, fine grained, unusual intensity

<<Vein: 365.7 - 365.9 90% Quartz-Tourmaline 0 deg. >> Glassy quartz-tourmaline veinlet along the core axis

<<Vein: 365.85 - 365.86 80% Tourmaline>> Tourmaline veinlet, weakly deformed, offsetted by fracture weakly sheared

<<Struc: 364.65 - 375.66 Vein>> Fine grained veinlet set

<<Struc: 364.7 - 364.71 dominant foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

366.96 373.15 SED **Undifferentiated sedimentary rock**

366.96 - 373.15: Pale green-grey, medium grained, mottled texture, well foliated; quartz-sericite-biotite-calcite-lesser chlorite; more silty from 368 m to 368.80 m (finer grain-chloritic-calcite dots, peppery biotite porphyroblasts, rare py veinlet crosscutting foliation, thinly foliated); wispy po dominantly, minor disseminated py; calcite patch and disseminated; possibly rhyolite interval from 368.18 m to 368.50 m; sharp contacts.

<<Min: 366.96 - 373.15 3% Min: Pyrrhotite>> And disseminated

<<Alt: 366.96 - 368.18 Moderate Calcite>> And patchy

<<Alt: 368.18 - 373.15 Weak Calcite>>

<<Struc: 370 - 370.01 Foliation>>

373.15 376.97 RHYcf **Feldspar & quartz phyric rhyolite**

From (m)	To (m)	Width
373.15	374.00	0.85

373.15 - 376.97: Grey-light green, fine grained matrix/groundmass, clastic/porphyritic, poorly sorted, poorly foliated (irregular, rounded blue quartz eyes; possibly secondary foliation; quartz-sericite-calcite-ankerite-lesser biotite; wispy po associated with sp-gl-cpy trace at upper contact, sp-py-gl discontinuous veinlets, fine grained py in crosscutting veinlets and tourmaline veinlet crosscutting py veinlet; sharp contact; this unit could be RHYvl, no strong evidence of feldspar phenocrysts.

<<Min: 373.15 - 376.97 2% Min: Pyrite>> Fine grained py in thin veinlets, crosscutting the foliation

From (m)	To (m)	Width
374.00	375.00	1.00

<<Min: 373.15 - 376.97 0.5% Min: Pyrrhotite>>

From (m)	To (m)	Width
375.00	376.00	1.00

<<Min: 374 - 374.2 0.5% Min: Sphalerite>>

From (m)	To (m)	Width
376.00	376.97	0.97

<<Min: 374 - 374.2 0.5% Min: Galena>>

<<Min: 374 - 374.2 0.1% Min: Chalcopyrite>>

<<Min: 375.5 - 375.55 0.5% Min: Sphalerite>> Poorly developed stringer

<<Min: 375.5 - 375.55 0.5% Min: Galena>> Poorly developed stringer

<<Alt: 373.15 - 376.97 Weak-Moderate Calcite>> Replacing clasts/crystals

<<Vein: 373.15 - 376.97 2% Pyrite>> High density of fine grained py veinlets crosscutting clasts-crystals and foliation, associated with base metals discontinuous bands

<<Vein: 375.5 - 375.53 3% Pyrite 75 deg. >> Sphalerite-galena-pyrite stringers poorly developed

<<Vein: 376.2 - 376.21 80% Tourmaline>> Tourmaline veinlet (folded?) crosscutting late fine grained pyrite veinlet

<<Struc: 375.5 - 375.55 Vein>> Sphalerite-galena pyrite poorly developed stringers

<<Struc: 376.8 - 376.81 Foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

376.97 379.28 MAFi **Mafic Intrusions (primarily footwall mafic intrusion)**

376.97 - 379.28: Dark green, fine grained, foliated; chlorite-biotite-calcite; disseminated po; intense calcite biotite at upper contact (chill margin?); possibly chloritic sediments.

<<Min: 376.97 - 398.03 0.1% Min: Pyrite>> Rare patch

<<Min: 376.97 - 400.9 2% Min: Pyrrhotite>> Along the foliation

<<Alt: 376.97 - 379.28 Moderate-Strong Calcite>> And banded

<<Struc: 376.97 - 376.97 Contact>> Lower contact RHYcf/SED or MAFi

379.28 398.03 SED **Undifferentiated sedimentary rock**

379.28 - 398.03: Pale green-light grey-off white bands; fine to medium grained, chlorite-calcite-quartz-biotite-lesser sericite, foliated, heterogeneous; biotite along the foliation, locally strongly calcareous (patchy) associated with biotite porphyroblasts; intervals showing finer grain and bleached texture, possibly clay bands-beige-very fine grained, metasomatic alteration?; wispy to patchy po-py; sharp lower contact.

<<Alt: 379.29 - 380 Strong Silicification>>

<<Alt: 380 - 391.7 Moderate-Strong Calcite>>

<<Alt: 391.7 - 398 Weak-Moderate Calcite>>

<<Alt: 398 - 400.9 Weak Calcite>> Partially replacing clasts/crystals

<<Struc: 387.6 - 387.61 Foliation>> Poorly developed

<<Struc: 397.35 - 397.36 dominant foliation>> Poorly developed

398.03 400.90 RHYcw **Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)**

398.03 - 400.9: Off white-light grey, curdy texture, foliated; quartz-lesser sericite-trace calcite-peppery biotite porphyroblasts, rare rounded blue quartz eyes; clasts supported, 5% fine grained matrix to aphanitic texture and more biotite at lower contact; (chill margin?) po discontinuous foliaform veinlets, fine grained py disseminated; sharp contacts; could be RHYcf, logged as RHYcw in ABM.

<<Min: 398.03 - 400.9 1% Min: Pyrite>>

400.90 406.84 MAFi **Mafic Intrusions (primarily footwall mafic intrusion)**

400.9 - 406.84: Dark green-black spot, medium grained, weakly foliated, granular, homogenous; chlorite-biotite (30%)-calcite-quartz-feldspar (?)-possibly ankerite; finer grained-lesser biotite at contacts (chill margin); calcite veinlets locally associated with py, quartz-calcite patch; wispy disseminated po; Sharp upper and lower contacts; possibly mafic flow.

<<Min: 400.9 - 406.84 0.1% Min: Pyrite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 400.9 - 414.37 0.5% Min: Pyrrhotite>>

<<Alt: 400.9 - 406.84 Weak-Moderate Calcite>> In matrix

<<Vein: 400.9 - 406.84 3% Quartz-Carbonate 65 deg. >> Multiple calcite and calcite-quartz veinlets sets

<<Struc: 400.9 - 400.9 Contact>> Estimated

406.84 414.37 RHYcf Feldspar & quartz phyric rhyolite light grey

406.84 - 414.37: Grey-white crystals medium strained poorly sorted in fine grained matrix (groundmass); quartz-sericite-calcite (partially replacing last/crystals)-peppery biotite (1-2%); disseminated po and fine grained py; sharp contacts; could be RHYvl, few evidences of feldspar porphyroblasts.

<<Min: 406.84 - 414.37 1% Min: Pyrite>>

<<Alt: 406.84 - 414.37 Weak-Moderate Calcite>> Partially replacing clasts/crystals

414.37 418.06 SED Undifferentiated sedimentary rock

414.37 - 418.06: Grey-green, foliated, biotite bearing, heterogenous sedimentary rock. Patchy/disseminated carbonate.

<<Min: 414.37 - 426.28 1% Min: Pyrrhotite>> Along foliation

<<Alt: 414.37 - 418.06 Weak-Moderate Calcite>>

<<Struc: 416 - 416 dominant foliation>> Not well developed

418.06 420.97 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone medium grey FG

418.06 - 420.97: Alternating light and dark grey, fine grained mudstone. Dark bands are carbonaceous.

<<Alt: 418.06 - 422.23 Weak Calcite>>

420.97 422.23 SED Undifferentiated sedimentary rock light grey FMG

420.97 - 422.23: Grey-green, foliated, biotite bearing, heterogenous sedimentary rock. Patchy/disseminated carbonate. Chaotic hyaloclastic (?) lower margin with MAFi.

<<Min: 422 - 426.28 0.5% Min: Pyrite>> In veins with calcite, cutting foliation

422.23 425.24 MAFi Mafic Intrusions (primarily footwall mafic intrusion) grey-green FG

422.23 - 425.24: Massive, biotite bearing grey green unit with intervals of sediment within. Seds are chaotic, suggesting xenolith or breccia.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Alt: 422.23 - 428.05 Weak Calcite>>

<<Struc: 425 - 425.1 dominant foliation>> Not well developed

425.24 426.28 SED Undifferentiated sedimentary rock grey-green FMG

425.24 - 426.28: Small unit of sedimentary rock within a larger unit of mafic dykes (?).

426.28 428.05 MAFi Mafic Intrusions (primarily footwall mafic intrusion) grey-green FG

426.28 - 428.05: Massive, biotite bearing grey green unit with intervals of sediment within. Seds are chaotic, suggesting xenolith or breccia.

<<Min: 426.28 - 428.05 0.5% Min: Pyrrhotite>> Finely disseminated

428.05 443.97 SED Undifferentiated sedimentary rock grey-green FMG

428.05 - 443.97: Banded, heterogenous mafic tuff and siltstone with relict medium grained sediments and carbonaceous siltstone, all interbedded.

<<Min: 428.05 - 443.97 1% Min: Pyrrhotite>> Blebs and disseminations

<<Alt: 428.05 - 446.28 Weak Calcite>>

443.97 446.28 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone medium grey FG

443.97 - 446.28: alternating light and dark grey bands of fine grained sediment. Carbonaceous mudstone interbedded with siliceous sediment.

<<Min: 443.97 - 459.39 1% Min: Pyrite>> In crackle veins with calcite

<<Min: 443.97 - 459.39 3% Min: Pyrrhotite>> Blebs and disseminations in beds

446.28 451.49 MDSc Carbonaceous dominant mudstone dark grey FG

From (m)	To (m)	Width
446.28	447.00	0.72

446.28 - 451.49: Fine grained mudstone, finely bedded, dominated by dark grey carbonaceous material. Lower contact is a minor gougy fault.

<<Alt: 446.28 - 451.49 Weak Calcite>> In fractures

From (m)	To (m)	Width
447.00	448.00	1.00

<<Struc: 448.16 - 448.17 Bedding>> Bedding in carbonaceous mudstone

From (m)	To (m)	Width
448.00	449.00	1.00

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

451.49 459.39 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone medium grey FG

451.49 - 459.39: Alternating light and dark grey bands of fine grained sediment. Carbonaceous mudstone interbedded with siliceous sediment.

<<Alt: 451.49 - 459.39 Trace Calcite>>

<<Struc: 458.4 - 458.5 dominant foliation>>

459.39 469.10 MAFta Mafic coarse grained to ash tuff grey-green FMG

459.39 - 469.1: Grey green chloritic, massive to banded unit with zones of crystals (relict, carb replaced).

<<Min: 459.39 - 470 0.5% Min: Pyrrhotite>> Disseminated in mafic tuff

<<Alt: 459.39 - 469.1 Weak-Moderate Calcite>> Possibly replacing clasts?

<<Alt: 460.99 - 461.9 Weak Silicification>> Unsure of origin, may even be a lithological variation.

469.10 475.23 MAFi Mafic Intrusions (primarily footwall mafic intrusion) grey-green FCG

From (m)	To (m)	Width
474.16	475.23	1.07

469.1 - 475.23: Coarse to medium grained shape of relict feldspar (now sericite) suggests a gabbroic protolith.

<<Min: 475 - 475.55 1% Min: Chalcopyrite>> A few small wisps of cp along foliation within a by-chl zone in MAFi

<<Alt: 469.1 - 501.67 Weak Calcite>>

475.23 492.03 MAFta Mafic coarse grained to ash tuff grey-green FG

475.23 - 492.03: Fine mafic volcaniclastic (probably) cu by massive quartz veins.

<<Min: 488 - 488.5 3% Min: Pyrite>> Seems to be associated with calcite vein boudins?

<<Vein: 475.55 - 476.66 Quartz>> Irregular, massive quartz+/- calcite vein boudins

<<Vein: 491.45 - 491.72 Calcium carbonate/Carbonate>> Irregular, massive carbonate-quartz vein

492.03 496.70 RHYvl Lapilli tuff light grey CG

492.03 - 496.7: Light grey-green, siliceous rock with pods of siliceous material, weakly to moderately foliated.

<<Struc: 496 - 496.1 dominant foliation>> Foliation in muscovite bearing schist

496.70 501.67 MAFw mafic volcanic flows grey-green FG

496.7 - 501.67: Grey green, amygdaloidal mafic flow.

<<Vein: 497 - 498 2% Quartz>> Boudinaged quartz-pyrrhotite veins

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

501.67 514.53 MAFt Undifferentiated mafic volcaniclastic grey-green FG

501.67 - 514.53: Variably banded, alternating siliceous and chloritic bands. Some siliceous bands have been boudinaged into a pseudoclastic texture.

<<Min: 501.67 - 515 3% Min: Pyrrhotite>> Blebby patches

<<Min: 504 - 506 0.5% Min: Pyrite>> Associated with carbonaceous layers in MDSt

<<Alt: 501.67 - 514.53 Moderate Calcite>>

<<Struc: 513 - 514 Bedding>> Bedding in tuff/mudstone

514.53 519.91 RHYi Aphanitic Rhyolite (intrusion) light grey FG

514.53 - 519.91: Massive to very weakly foliated, light grey felsic intrusive rock. Sparse biotite porphyroblasts, increasing close o contacts. Chaotic contacts, possibly hyaloclastic. Faint ghost crystals suggest a porphyritic protolith.

<<Alt: 514.53 - 528.64 Weak Calcite>>

519.91 521.47 RHYva Coarse grained to ash tuff beige FMG

519.91 - 521.47: Brown grey, biotite bearing rock with fine (granule) sized clasts, some appear to be crystals, though possibly lithics?

521.47 528.64 RHYi Aphanitic Rhyolite (intrusion) light grey FCG

521.47 - 528.64: Light grey, massive, siliceous, relict phenocryst bearing (predominantly carbonate after feldspar, white-clear quartz eyes also common.

528.64 549.69 MAFw mafic volcanic flows grey-green FG

528.64 - 549.69: Grey green, amygdaloidal mafic flow.

<<Min: 549 - 557.94 2% Min: Pyrrhotite>> Along foliation planes

<<Alt: 528.64 - 549.69 Weak-Moderate Calcite>>

549.69 557.94 RHYvl Lapilli tuff light grey

549.69 - 557.94: Light grey, locally "curdy" siliceous volcaniclastic (?). Some portions look like RHYcw.

<<Alt: 549.69 - 557.94 Weak Calcite>>

557.94 565.85 MAFt Undifferentiated mafic volcaniclastic grey-green FCG

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
564.00	565.00	1.00						

557.94 - 565.85: Grey green carbonate rich (replacing clasts (?) fine grained, mafic unit. Lower contact is a gougy fault. Contains 0.25% or less blebby chalcopyrite.

<<Min: 557.94 - 565.8 0.1% Min: Pyrrhotite>> Associated with carbonate patches

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
565.00	565.85	0.85						

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 557.94 - 565.8 0.1% Min: Chalcopyrite>> Associated with carbonate patches

<<Alt: 557.94 - 565.85 Moderate Calcite>>

<<Struc: 565.55 - 568.59 Fault>> Healed

565.85 568.53 FLZ Fault Zone grey-green FG

From (m)	To (m)	Width
565.85	566.55	0.70

565.85 - 568.53: Very well foliated, healed fault zone. No internal texture, very fine grained, originally gougy, now consolidated?

<<Alt: 565.85 - 568.59 Trace Calcite>>

568.53 571.60 RHYvl Lapilli tuff grey-brown

568.53 - 571.6: An odd interval, strongly siliceous in blobby bands, also biotite bearing. Some portions finely laminated like flow banding, other parts are massive, others chaotic. Possibly a portion of the fault zone?

<<Alt: 569.59 - 578 Weak Calcite>>

571.60 572.83 FLZ Fault Zone grey-brown FCG

571.6 - 572.83: Gougy, clast bearing fault zone, not healed, crumbly.

<<Struc: 571.6 - 572.83 Moderate-Strong Fault>> Gougy/rubbly

572.83 574.02 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts brown FG

572.83 - 574.02: Protolith unclear, completely altered to carbonate and biotite.

574.02 577.90 RHYvl Lapilli tuff light grey

574.02 - 577.9: Siliceous domains separated by thin muscovite-clay. No carbonate.

<<Min: 574.02 - 578 0.5% Min: Pyrite>> In zones between siliceous patches (lapilli?)

577.90 580.47 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts grey-green FG

577.9 - 580.47: Heavily altered. Protolith unclear, calcite porphyroblasts. Biotite rich domains. Abundant crosscutting calcite veinlets.

<<Min: 578 - 581 0.5% Min: Pyrite>> Disseminated throughout rock

<<Min: 578 - 581 1% Min: Pyrrhotite>>

<<Alt: 578 - 580.6 Moderate Calcite>> In matrix and replacing crystals.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

580.47 582.42 RHYi Aphanitic Rhyolite (intrusion) grey-green FG

580.47 - 582.42: Qtz/calcite vein from 580.7-581. Bt porphyroblasts found throughout. Generally massive, moderately fractured. Several more qtz veins found throughout.

<<Min: 581.1 - 590.1 0.1% Min: Pyrite>> Often found as blebs in veins

<<Min: 581.1 - 590.1 0.1% Min: Pyrrhotite>>

<<Alt: 580.6 - 582.37 Weak Silicification>>

<<Alt: 582.37 - 583.24 Moderate Calcite>>

<<Vein: 580.7 - 581.05 85% Quartz 65 deg. >> Massive quartz-calcite vein

<<Vein: 581.15 - 581.72 70% Quartz>> Multiple massive crystalline qtz+calcite veins

582.42 583.29 MAFt Undifferentiated mafic volcaniclastic green-brown FMG

582.42 - 583.29: Dark greenish brown, very carbonaceous, with calcite replacing relict feldspars. Equigranular and poorly foliated

<<Alt: 583.24 - 588.89 Weak Calcite>> In veins, and banding

583.29 590.11 RHYvl Lapilli tuff grey-green FMG

583.29 - 590.11: Light greenish grey. Interbedded with MAFt domains from 588.48-588.64 and 588.81-589.54.

<<Min: 590.1 - 600.45 0.1% Min: Pyrrhotite>> Trace blebs

<<Alt: 588.89 - 600.42 Weak Calcite>>

<<Vein: 584.6 - 584.88 60% Quartz>> Multiple massive qtz + calcite vein

590.11 600.44 MAFt Undifferentiated mafic volcaniclastic grey-green FG

590.11 - 600.44: Carbonate rich, carbonate has replaced some clasts. Generally fine grained, poorly foliated.

<<Alt: 600.42 - 606.6 Weak Calcite>>

<<Vein: 591.25 - 591.35 100% Calcium carbonate/Carbonate>> Massive qtz + calcite vein

<<Vein: 592.93 - 593.9 25% Quartz>> Multiple patchy, massive quart + calcite veins

<<Struc: 591.5 - 591.55 Moderate-Strong Vein>> Tourmaline vein

600.44 606.60 RHYv Undifferentiated Rhyolite volcaniclastic grey-green FMG

600.44 - 606.6: Carbonate rich, poor to moderate foliation. Variably banded. Very fine grained py, po found throughout.

<<Min: 600.45 - 606.7 0.1% Min: Pyrite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
606.60	**610.29**	**MAFt Undifferentiated mafic volcaniclastic grey-green FG**	609.29	610.29	1.00						
606.6 - 610.29: Fine grained, heavily chlorite altered mafic tuff. Abundant biotite porphyroblasts throughout. Poor foliation.											
<<Min: 606.76 - 634.22 0.1% Min: Pyrite>> Rare patch or occasionally in vein											
<<Alt: 606.6 - 610.66 Moderate-Strong Calcite>> Replacing clasts, and in fractures											
<<Vein: 608.2 - 611.22 5% Calcium carbonate/Carbonate>> Abundant calcite + pyrite veinlet network. Veins vary from hairline to 1 cm thick. Crosscutting											
610.29	**618.76**	**SED Undifferentiated sedimentary rock green-brown FMG**	610.29	611.29	1.00						
610.29 - 618.76: Siliceous beds visible through out. Calcareous, biotite bearing heterogeneous sedimentary rock.											
<<Alt: 610.66 - 615 Moderate Calcite>> Replacing clasts, and in fractures			611.29	612.29	1.00						
<<Alt: 615 - 625.01 Weak Calcite>>											
<<Struc: 613.1 - 613.15 Weak-Moderate Bedding>> Bedding in MDSc.											
618.76	**625.02**	**MDSt Rhyolite tuff dominant mudstone grey-green FMG**									
618.76 - 625.02: Heterolithic, abundant bt porphyroblasts, occasional relict bedding preserved.											
<<Alt: 625.01 - 629.47 Weak-Moderate Calcite>> In qtz calcite veins, replaced clasts, and infilled fractures											
<<Vein: 621.48 - 621.62 100% Quartz>> Massive bull quartz vein											
<<Vein: 622.55 - 622.85 75% Quartz-Pyrrhotite>> Massive bull quartz + calcite vein, w. po along grain boundaries											
<<Struc: 620.49 - 620.54 Moderate Foliation>>											
<<Struc: 622.2 - 622.25 Weak Bedding>> Poorly developed.											
625.02	**626.10**	**MAFi Mafic Intrusions (primarily footwall mafic intrusion) green FCG**									
625.02 - 626.1: Green, large biotite phenocrysts.											
626.10	**627.34**	**RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics) grey-brown FMG**									
626.1 - 627.34: Siliceous flow banded rhyolite. Abundant py throughout											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
			633.14	634.20	1.06						

627.34 636.63 MAFi Mafic Intrusions (primarily footwall mafic intrusion) green FCG

627.34 - 636.63: Pistachio green, heavily fractured. Abundant bt porphyroblasts, as well as relict k-spar porphyroblasts altered to sericite.

<<Min: 634.22 - 650.36 0.5% Min: Pyrrhotite>> Very sparse, but found throughout section

<<Min: 634.22 - 650.36 0.1% Min: Chalcopyrite>> Very sparse, associated with po mineralization

<<Alt: 629.47 - 634.32 Moderate Calcite>> Replacing clasts, and in abundant veinlets

<<Alt: 634.32 - 645.11 Moderate Calcite>> Mostly in veins, occasionally replacing clasts

<<Vein: 631.85 - 641.25 10% Quartz>> Patchy, massive quartz + calcite veining

636.63 638.72 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone green-brown FMG

636.63 - 638.72: Finely bedded heterogeneous carbonaceous mudstone, with siliceous bands.

638.72 643.30 MAFt Undifferentiated mafic volcaniclastic green FMG

638.72 - 643.3: Some spots very bt rich. Calcite porphyroblasts replacing feldspars. Generally massive with some banding.

<<Struc: 640.5 - 640.55 Moderate Foliation>>

<<Struc: 643.25 - 643.3 Moderate Foliation>> Calcite band

643.30 647.40 RHYi Aphanitic Rhyolite (intrusion) grey-green FG

643.3 - 647.4: Green-grey fine grained, intrusive rhyolite. Some bt porphyroblasts. Speckled with vfg pyrite throughout. Carbonaceous bands.

<<Alt: 645.11 - 645.9 Weak-Moderate Silicification>>

<<Alt: 645.9 - 663.27 Moderate Calcite>> Mostly banded, but also in veins, and as replacement clasts

647.40 650.31 MAFt Undifferentiated mafic volcaniclastic green-brown FMG

647.4 - 650.31: Occasional calcite bands, massive, unfractured. Calcite porphyroblasts replacing feldspars.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

650.31 652.63 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone green-brown FG

650.31 - 652.63: Chaotic siliceous bands. Pyrite speckled throughout the segment.

<<Min: 650.36 - 653.47 2% Min: Pyrrhotite>> Disseminated and patchy, often occurring along foliation. Also occasional py intermixed with po

652.63 655.81 RHYi Aphanitic Rhyolite (intrusion) grey-green VFG

652.63 - 655.81: Intrusive rhyolite, semi-massive. Abundant qtz veining throughout. Siliceous.

<<Struc: 652.65 - 652.7 Moderate-Strong Bedding>>

655.81 661.72 FLZ Fault Zone green FCG

655.81 - 661.72: Gougy fault zone, with large qtz veins, probably due to fluid flow in fault. Poorly sorted, clast bearing, crumbly.

<<Vein: 657 - 675 35% Quartz>> Abundant patchy and massive qtz + calcite veins found throughout this section. Commonly have trace amounts of patchy po and py found in fractures.

661.72 664.07 RHYv Undifferentiated Rhyolite volcaniclastic green FMG

From (m)	To (m)	Width
662.48	663.37	0.89

661.72 - 664.07: Siliceous, banded volcaniclastic rock. Abundant large qtz veins throughout. Several carbonaceous domains.

<<Min: 662.8 - 663.96 1% Min: Pyrrhotite>> Often patchy, occurring along fractures in massive qtz veins.

664.07 666.97 RHYi Aphanitic Rhyolite (intrusion) grey-green FG

664.07 - 666.97: Massive to very weakly foliated, light grey-green felsic intrusive rock. Sparse biotite porphyroblasts, increasing close to contacts.

<<Alt: 665.11 - 667.81 Weak Calcite>>

666.97 670.90 MDSt Rhyolite tuff dominant mudstone grey-green FMG

From (m)	To (m)	Width
669.90	670.90	1.00

666.97 - 670.9: Bt porphyroblasts throughout, chaotic calcareous mudstone bands, otherwise quite siliceous.

<<Min: 669.8 - 670.7 1% Min: Chalcopyrite>> Occurs as mm size blebs, along foliations and flow bands. Po commonly occurs with CP

<<Alt: 667.81 - 677.3 Weak Calcite>> Occurs primarily as replacing relict clasts. Occasionally banded, or found in veins

<<Vein: 670.61 - 670.71 15% Quartz>> 1 cm thick cross cutting qtz veinlets

<<Struc: 670.75 - 670.8 Strong dominant foliation>>

From (m)	To (m)	Rocktype & Description			From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
670.90	**678.50**	**RHYi**	**Aphanitic Rhyolite (intrusion)**	**grey-green** **FG**	673.07	674.00	0.93						

670.9 - 678.5: Aphanitic rhyolite, with some sections having bt-rich domains. Calcite clasts replacing feldspar found throughout. Slightly porphyritic qtz textures can be observed. Vfg pyrite found throughout.

<<Min: 673.22 - 675.15 4% Min: Pyrrhotite>> Occurs as large, patchy blebs in large, massive qtz veins | 674.00 | 675.00 | 1.00 |

<<Alt: 677.3 - 679.4 Moderate-Strong Calcite>> In a fault zone, heavily altered.

<<Vein: 676.8 - 677 5% Tourmaline>> 0.5 cm thick, black tourmaline veinlets

678.50	**679.41**	**FLZ**	**Fault Zone**	**grey-green** **FCG**

678.5 - 679.41: Gougy fault zone. Crumbly.

<<Alt: 679.4 - 686.21 Weak-Moderate Calcite>> Occurs primarily in bands, and often replacing clasts

679.41	**684.11**	**RHYvl**	**Lapilli tuff**	**grey** **FMG**

679.41 - 684.11: Light grey, "curdy" siliceous volcaniclastic. Bt content ranges from sparse to abundant.

<<Min: 681.4 - 684.22 0.5% Min: Pyrrhotite>> Occasional patchy, 1-3mm size Po and occasionally py mineralization

684.11	**685.43**	**RHYcw**	**Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)**	**grey-green** **FMG**

684.11 - 685.43: Rhyolitic flow. Moderately fractured. Abundant bt porphyroblasts. Siliceous.

685.43	**690.25**	**RHYvl**	**Lapilli tuff**	**grey-green** **FMG**

685.43 - 690.25: Gougy, several small faults running through zone. Heavily fractured rock. Light grey, curdy siliceous volcanoclastic rock.

<<Alt: 686.21 - 689.28 Moderate Calcite>>

<<Alt: 689.28 - 692.22 Weak-Moderate Calcite>>

<<Vein: 688.01 - 689.28 20% Quartz>> Massive bull qtz + calcite veins

690.25	**696.86**	**MAFt**	**Undifferentiated mafic volcaniclastic**	**green** **FMG**

690.25 - 696.86: Dark green mafic tuft, with varying degrees of porphyritic biotite. Cross cut by massive qtz veins, and smaller calcite veins.

<<Alt: 692.22 - 693.25 Moderate Calcite>>

<<Alt: 693.25 - 696.8 Weak Calcite>>

<<Alt: 696.8 - 705.47 Moderate Calcite>> Occurring as calcite replacement, in bands and veins

<<Vein: 695.8 - 698.2 8% Quartz>> Massive Bull qtz + calcite veins

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 694.3 - 694.35 Moderate-Strong Foliation>> Biotite layer

696.86 705.48 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone green-brown FG

696.86 - 705.48: Brownish-green, heterolithic mudstone. Abundant carbonaceous bands. Quite silicified, with cherty beds.

<<Min: 702.47 - 708.51 4% Min: Pyrrhotite>> Wispy and patchy po, and occasion py found throughout

<<Alt: 705.47 - 729.44 Moderate-Strong Silicification>>

705.48 709.88 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics) grey-green FG

705.48 - 709.88: Chaotic flow bands, and lapilli tuffs. Cross-cut by several 20-30cm massive qtz veins. Moderate amount of bt found throughout. Poorly foliated.

<<Vein: 706.7 - 708.49 50% Quartz>> Massive bull qtz vein

709.88 724.45 MAFi Mafic Intrusions (primarily footwall mafic intrusion) dark grey FMG

709.88 - 724.45: Large mafic intrusion. Extremely bt-rich in some places. Quite siliceous, with occasional calcite bands. Possible tourmaline in matrix. Abundance of qtz veins support that this is a large mafic dyke.

<<Min: 712.1 - 716 3% Min: Pyrrhotite>> Wispy po, and rarer py along foliation, often replacing biotite.

<<Min: 717.86 - 724.11 2% Min: Pyrite>> Usually occurs with po

<<Min: 717.86 - 724.11 7% Min: Pyrrhotite>> Occurs along foliation

<<Vein: 712.8 - 718.7 20% Quartz>> Massive, patchy qtz veins, often have tourmaline along grain boundary. Po, Chl, and bt infill spaces where there are no qtz

<<Vein: 721.25 - 721.3 15% Tourmaline 65 deg. >> Hairline tourmaline vein

<<Vein: 721.3 - 737.66 85% Quartz>> Massive bull qtz veins and intrusive rhyolite veins. Often with tourmaline along grain boundaries. Sometimes veins develop a dendritic texture (at 730.25m, for example). Py and po also occurring in close proximity to veins

724.45 727.16 RHYi Aphanitic Rhyolite (intrusion) grey VFG

724.45 - 727.16: Igneous intrusive. Trace bt-porphyroblasts, trace py, po.

727.16 729.06 MAFi Mafic Intrusions (primarily footwall mafic intrusion) brown FG

727.16 - 729.06: Mafic intrusive. Very dark and fine grained. Very siliceous. Abundant cross-cutting massive qtz veins

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

729.06 730.38 RHYi Aphanitic Rhyolite (intrusion) grey-brown FG

729.20	730.05	0.85

729.06 - 730.38: Igneous intrusive. Possible dyke swarm, with both a felsic and a mafic source. Trace bt. Bottom contact has abundant bladed tourmaline.

<<Min: 730.25 - 731 0.5% Min: Chalcopyrite>> Small cp crystals speckled throughout

730.38 734.72 RHYv Undifferentiated Rhyolite volcaniclastic grey-green FMG

730.38 - 734.72: Very dark for a rhyolite. Heavily silicified. Secondary sericite + bt. Foliations are formed along bt-rich layers.

<<Min: 731 - 739.04 1% Min: Pyrite>> Occurs with po

<<Min: 731 - 739.04 2% Min: Pyrrhotite>>

734.72 737.76 MAFt Undifferentiated mafic volcaniclastic grey-green FMG

734.72 - 737.76: Dark green, banded. Porphyritic biotite secondary, as well as primary biotite.

<<Alt: 734.72 - 750.74 Moderate-Strong Silicification>>

<<Alt: 734.72 - 750.74 Moderate-Strong Biotite>> Abundant porphyritic biotite, as well with sericite, forming banded foliation

737.76 755.64 RHYv Undifferentiated Rhyolite volcaniclastic grey-green FMG

751.25	752.12	0.87

737.76 - 755.64: Dark, heavily silicified rhyolite. Secondary sericite + bt. Common po. Several 20-60 cm rhyolitic dikes intrude through this section. There is also a heavily altered mafic dyke from 749.04-750.24, with gritty patches of silicified talc.

<<Min: 752.22 - 755.6 2% Min: Pyrite>> Occurs with po

753.50	754.50	1.00

<<Min: 752.22 - 755.6 4% Min: Pyrrhotite>> Occurs along foliation, also in veins and as bt replacement.

<<Min: 752.22 - 755.6 0.25% Min: Chalcopyrite>>

<<Alt: 750.74 - 762.85 Moderate Calcite>>

<<Alt: 750.74 - 800 Moderate Silicification>> Entire run of core has been heavily silicified.

<<Vein: 747.4 - 747.5 50% Tourmaline>> Tourmaline + Bt veinlet set

<<Vein: 749.8 - 749.82 100% Tourmaline>> Tourmaline veinlet crosscutting rhyolitic dyke

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

755.64 762.90 SED Undifferentiated sedimentary rock green-brown FG

755.64 - 762.9: Green-pink-brown carbonaceous sedimentary rock. Green-white-pink banding. Relict beds preserved in some places. Porphyritic secondary bt is present throughout, although it appears to be bleached from about 759.7 to 760.4. Heavily chlorite altered.

<<Vein: 756.5 - 800 15% Quartz>> Massive qtz + calcite veins, varying in thickness from several cm to 30 cm

<<Struc: 759.65 - 759.7 Strong Shear>>

762.90 767.30 SED Undifferentiated sedimentary rock green FG

762.9 - 767.3: Greenish-brown sedimentary rock. Similar to lithology described above, but more siliceous, and with thicker bands. Secondary bt various from about 5%-50%.

<<Alt: 764 - 767.77 Weak-Moderate Calcite>>

767.30 770.05 RHYva Coarse grained to ash tuff grey MCG

767.70	768.69	0.99

767.3 - 770.05: Creamy white/pistachio green rhyolitic unit. Siliceous, mottled texture.

<<Vein: 768.48 - 768.49 100% Tourmaline>> Tourmaline veinlet

768.69	769.68	0.99

770.05 773.48 SED Undifferentiated sedimentary rock green FCG

770.05 - 773.48: Green massive sedimentary rock. Abundant calcite bands, large (up to 1 cm) bt porphyroblasts found throughout.

<<Alt: 770.1 - 800 Moderate Calcite>> Occurring in bands, or veins. Occasionally as replacement clasts. 800 m E.O.H.

773.48 796.84 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone dark grey FG

783.80	784.70	0.90

773.48 - 796.84: Large unit of dominantly dark blueish-grey silicified mudstone. Can also be olive green in some area, likely due to hydrothermal fluid interaction, or slight compositional differences. V. fine grained siltstone from about 786-793, after this coarser grained mudstone. Abundant qtz/calcite veins throughout this section suggest heavy hydrothermal fluid interaction.

<<Min: 776.15 - 783.2 3% Min: Pyrite>> Large py patches occurring in veins, and some in foliation

784.70	785.73	1.03

<<Min: 776.15 - 783.2 2% Min: Pyrrhotite>>

785.73	786.47	0.74

<<Min: 776.15 - 783.2 1% Min: Chalcopyrite>>

<<Min: 783.2 - 787.97 8% Min: Pyrite>> Abundant pyrite forming primarily in veins, but also along foliation planes

<<Min: 792.4 - 796.4 2% Min: Pyrite>> Occurs with po

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Min: 792.4 - 796.9 6% Min: Pyrrhotite>>											
<<Vein: 783.6 - 784.8 5% Pyrite>>		Abundant pyrite veinlets									
<<Vein: 786.7 - 789.8 5% Quartz>>		Hairline qtz veins.									
796.84	**800.00**	**SED Undifferentiated sedimentary rock green FG**									
796.84 - 800: Dark green, banded. Porphyritic biotite secondary, as well as primary biotite. 1-3 cm thick calcite bands. 800 m E.O.H.											
End of Hole @ 800											

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-450

Prospect:	ABM	Hole Type:	DD	Survey Type:	GPS	Logged By:	Jerome de Pasquale
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Oscar Nielsen	Date Logging Start:	10/7/2017
UTM Easting	414789	Core Size:	HQ3	Azimuth:	179.12	Date Logging Complete:	10/17/2017
UTM Northing:	6815649	Casing Pulled?:	Yes	Dip:	-75.81	Drill Company:	New Age
UTM Elev. (m):	1404	Casing Depth (m):	1.5	Length (m):	182	Drill Rig:	Zinex A5
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	9/30/2017
Local Northing:		Cemented?:	No	Core Storage Loc.:	KZK Camp	Drill Completed:	10/3/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Exploration
Comments:						Parent Hole:	

Purpose: Collared for downhole seismic testing and resource calculation. Acoustic Impedance measurement and Specific Gravity proceeded every metre. Also named hole P17-006.
K17-450 hanging wall shows of volcaniclastic (RHYv) and coherent rhyolite (RHYc) with pelite (PEL) units and mafic dykes (MAFi) intercalated.
Mineralization zone is intercepted from 144.60 m to 171.14 m and consists dominantly in OB and OA domains. Chalcopyrite (associated with pyrrhotite-OC/OG domains) is locally abundant; pyrite-sphalerite-galena+/-magnetite constitutes the main mineral assemblage.
The mafic footwall (MAFi) is observed at 171.14 m and seems talc altered.
Muscovite alteration increases from 124.16 m to 144.60 m. Strong proximal chlorite-cordierite alteration is seen from 145.66 m to 147.17 m.
K17-450 is also marked by dolomitization from 17.63 m to 30.00 m and silicification associated with muscovite alteration from 173.71 m to 175.72 m. The latter suggests RHYi (aphanitic rhyolite) proximity.
K17-450 was successfully completed. Seismic test is planed end of October.
K17-450 was shut down at 182.00 m.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0.5	-75.81	177.72	1.4	179.12	EZ-Gyro	New Age	1/10/2017		☑	
27.5	-75.65	180.74	1.4	182.14	EZ-Gyro	New Age	1/10/2017		☑	
57.5	-75.76	179.71	1.4	181.1	EZ-Gyro	New Age	2/10/2017		☑	
87.5	-75.56	181.54	1.4	182.94	EZ-Gyro	New Age	2/10/2017		☑	
117.5	-75.42	180.87	1.4	182.27	EZ-Gyro	New Age	2/10/2017		☑	
147.5	-75.28	181.9	1.4	183.3	EZ-Gyro	New Age	3/10/2017		☑	
177.5	-75.47	182.24	1.4	183.64	EZ-Gyro	New Age	3/10/2017		☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**10.32**	**RHYv** **Undifferentiated Rhyolite volcaniclastic**									
0 - 10.32: Grey, fine grained matrix-clastic, silicic bands to foliated, poorly sorted, possibly crystal fragments; quartz-muscovite-sericite-trace calcite; patchy py-po up to 2%; moderate ferro-carbonate alteration (dolomite-ankerite; gradational to chill margin texture at lower contact.											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Min: 0 - 10.72 3% Min: Pyrrhotite>>

<<Min: 0 - 27.09 1% Min: Pyrite>>

<<Alt: 0 - 10.72 Trace Calcite>>

<<Alt: 5 - 10.72 Weak-Moderate Dolomite>>

10.32 17.63 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

10.32 - 17.63: Brown-beige, fine grained, poorly foliated, quartz veined; calcite-biotite-quartz-rare chlorite; possibly abundant amygdules suggesting volcanic intrusive origin-intermediate composition; (?) patchy py-po; gradational (chill margin?) contacts.

<<Min: 10.72 - 45 2% Min: Pyrrhotite>>

<<Alt: 10.72 - 17.63 Strong Calcite>>

<<Vein: 11.5 - 15 10% Quartz-Carbonate 45 deg. >> Quartz-calcite wavy veinlet sets

<<Struc: 10.7 - 10.71 dominant foliation>> Foliation weakly marked

<<Struc: 12.8 - 12.81 Vein>> Calcite-quartz veinlet set, possibly foliaform

17.63 24.89 RHYv Undifferentiated Rhyolite volcaniclastic

17.63 - 24.89: Beige-pale yellow-grey, fine grained, silica banded to foliated; quartz-sericite-dolomite-lesser calcite-biotite; fine grained calcite-biotite narrow interval from 20.24m to 21.14m, mafic-to intermediated dyke or polite (?); tourmaline veinlet along the core axis (envelope penetrating foliation); heterogeneous interval showing locally bleaching, quartz-dolomite bands; weakly to moderately faulted; contact obscured by alteration.

<<Alt: 17.63 - 24.89 Weak-Moderate Calcite>>

<<Alt: 17.63 - 30 Moderate-Strong Dolomite>> Associated with quartz bands

<<Vein: 22 - 23 5% Tourmaline 5 deg. >> Tourmaline veinlet along the core axis, associated with quartz, fault gouge and dolomite alteration

<<Struc: 22 - 24.3 Moderate Fault>> Associated with dolomite alteration and tourmaline veinlet along the core axis

24.89 27.09 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

24.89 - 27.09: Brown-beige, very fine grained, poorly foliated; biotite-calcite-quartz, possibly intermediate composition dyke; locally bleached-beige and silty texture; patchy py-po.

<<Alt: 24.89 - 27.09 Strong Calcite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

27.09 46.55 RHYv Undifferentiated Rhyolite volcaniclastic

27.09 - 46.55: medium grey, fine to medium grained, foliated; poorly sorted, some medium strained lapillis; quartz-sericite-muscovite; patchy pyrite associated with glassy grey quartz bands, quartz-dolomite (possibly ankerite)-calcite bands at upper contact (hydrothermal alteration); chlorite or green mica blebs; gradational contacts.

<<Min: 27.09 - 45 2% Min: Pyrite>> And patchy

<<Min: 45 - 112 5% Min: Pyrite>> And disseminated

<<Min: 45 - 112 3% Min: Pyrrhotite>> And disseminated

<<Alt: 27.09 - 171.14 Trace Calcite>>

<<Struc: 28.9 - 28.91 dominant foliation>>

<<Struc: 31.4 - 31.41 dominant foliation>> Foliation weakly marked

<<Struc: 33.2 - 37.21 dominant foliation>>

<<Struc: 36.1 - 36.11 dominant foliation>>

<<Struc: 39.3 - 39.31 Foliation>> Secondary foliation

<<Struc: 43.9 - 43.91 dominant foliation>>

<<Struc: 45.9 - 45.91 dominant foliation>>

46.55 50.30 RHYva Coarse grained to ash tuff

46.55 - 50.3: Light grey, fine to medium grained, well sorted, foliated; sericite-quartz-locally fine grained biotite; interval showing possible repeating sedimentary sequences (graded bedding?); gradational contacts.

<<Struc: 49.95 - 49.96 dominant foliation>>

50.30 54.40 RHYv Undifferentiated Rhyolite volcaniclastic

50.3 - 54.4: Medium grey, fine grained matrix, crystal fragments or clast-medium strained, poorly sorted, foliated; locally silicic wavy bands; sericite-quartz-ankerite replacing clasts; pyrite stringers associated with grey glassy quartz bands, patchy po; probably reworked volcaniclastic sediments; gradational contacts.

<<Vein: 50.3 - 52.5 10% Quartz-Sulphide 75 deg. >> Pyrite-quartz stringers, foliaform

<<Struc: 51.2 - 51.21 dominant foliation>> Foliation weakly marked

54.40 59.05 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

54.4 - 59.05: Light grey, poorly developed curdy texture, probably crystals and lapilli fragments strained and deformed-poorly sorted (reworked volcaniclastic sediments), rare silicic bands; secondary foliation and crenulation cleavage locally observed; gradational contacts.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

59.05 74.18 RHYv Undifferentiated Rhyolite volcaniclastic

59.05 - 74.18: Medium grey, fine grained matrix, crystal fragments or clast-medium strained, poorly sorted, foliated; locally silicic wavy bands; sericite-quartz-ankerite replacing clasts; pyrite stringers associated with grey glassy quartz bands, patchy po; probably reworked volcaniclastic sediments; gradational contacts.

<<Struc: 64.35 - 64.36 Foliation>> Secondary foliation (2 foliations well marked, crenulation cleavage)

<<Struc: 64.4 - 64.41 Foliation>> Primary foliation (2 foliations well marked)

<<Struc: 66.3 - 66.45 Weak Fault>> Minor fault gouge

<<Struc: 70.5 - 70.51 Foliation>> Foliation poorly marked

74.18 76.90 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

74.18 - 76.9: Light grey, poorly developed curdy texture, possibly feldspar porphyries or crystal fragments; secondary foliation and crenulation cleavage; rare silicic wavy bands; gradational contacts.

<<Vein: 74.8 - 75.7 2% Carbonate-Biotite 5 deg. >> Unusual calcite-black mica veinlet without envelop, late, non-deformed

<<Struc: 76.35 - 76.36 Foliation>> Secondary foliation, curdy texture poorly developed

76.90 79.80 RHYv Undifferentiated Rhyolite volcaniclastic

76.9 - 79.8: Medium grey, fine grained matrix, crystal fragments or clast-medium strained, poorly sorted, foliated; locally silicic wavy bands; sericite-quartz-ankerite replacing clasts; pyrite stringers associated with grey glassy quartz bands, patchy po; probably reworked volcaniclastic sediments; gradational contacts.

79.80 112.68 RHYc Undifferentiated coherant rhyolite

79.8 - 112.68: Medium grey, medium to coarse grained matrix, texture locally obscured by secondary foliation showing weak sericitization and poorly developed crenulation cleavage (probably reworked epispastic sediments intervals and poorly developed curdy texture); quartz-sericite; py-po patches associated with grey glassy quartz bands, trace sphalerite-galena; gradational contacts.

<<Min: 87.6 - 88 2% Min: Sphalerite>>

<<Min: 92.1 - 92.3 0.5% Min: Sphalerite>>

<<Min: 92.1 - 92.3 0.1% Min: Galena>> Associated with sphalerite

<<Min: 112 - 124.16 1% Min: Pyrite>>

<<Min: 112 - 124.16 2% Min: Pyrrhotite>>

<<Struc: 92.8 - 92.81 Foliation>> Secondary foliation, weakly developed

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 94 - 95.35 Moderate-Strong Fault>> 60% clay-30% sandy-silt fault gouge over 1.30 m;

<<Struc: 103.3 - 103.31 Foliation>> Late secondary foliation, crenulation cleavage

<<Struc: 104 - 104.1 Weak Fault>> Minor fault gouge

<<Struc: 110.25 - 110.26 dominant foliation>> Possibly well marked secondary foliation

<<Struc: 112.2 - 112.21 dominant foliation>>

112.68 117.26 MDSc Carbonaceous dominant mudstone

112.68 - 117.26: Grey-dark blue, medium grained, well foliated, secondary foliation weakly marked; quartz-sericite-graphite; locally faulted (80% clay over 20 cm); elongated disseminated po, rare py; gradational contacts.

<<Struc: 116.72 - 117.2 Weak-Moderate Fault>> Fault (30% clay) gouge over 10 cm

117.26 124.16 MDSw Coherent rhyolite flow with carbonaceous content

117.26 - 124.16: Medium grey-dark blue; medium to coarse grained, foliated; locally wavy-deformed foliation or flow bands; quartz-sericite-graphite; disseminated po, rare py; gradational contacts.

<<Struc: 118.7 - 118.71 Foliation>> Possibly 2 foliations marked

<<Struc: 122.3 - 122.31 Foliation>>

124.16 140.57 RHYc Undifferentiated coherant rhyolite

124.16 - 140.57: Pale grey-light yellow-green, medium to coarse grained, foliated, quartz-sericite-muscovite; moderately muscovite altered, patchy po, patchy and disseminated py; massive quartz vein showing locally strongly muscovite altered envelop; locally less altered patch-grey sericite-crenulation cleavage and py in primary foliation,; gradational contacts.

<<Min: 124.16 - 136 5% Min: Pyrite>>

<<Min: 124.16 - 136 2% Min: Pyrrhotite>>

<<Min: 136 - 144.6 3% Min: Pyrite>>

<<Min: 136 - 144.6 2% Min: Pyrrhotite>>

<<Min: 140 - 144.6 0.1% Min: Galena>>

<<Alt: 124.16 - 130.26 Moderate-Strong Muscovite>>

<<Alt: 130.26 - 141.58 Moderate Muscovite>>

<<Vein: 131.4 - 136.5 20% Quartz>> Multiple massive quartz, glassy-fractured, muscovite alteration halo

<<Vein: 138.33 - 138.34 90% Quartz-Carbonate 25 deg. >> Dolomite-quartz veinlet crosscutting the foliation

<<Struc: 124.2 - 124.21 dominant foliation>>

<<Struc: 130.1 - 130.11 dominant foliation>>

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Struc: 133.65 - 133.66 dominant foliation>>												
<<Struc: 135.8 - 136 Weak Fault>>		Minor fault gouge (muscovite rich) at contact with massive quartz vein										
140.57	**141.58**	**MDSw** **Coherent rhyolite flow with carbonaceous content**										
140.57 - 141.58: Grey-silvery, medium to coarse grained, black thin bands-foliated, crenulation cleavage weakly developed; quartz-sericite-lesser graphite; disseminated py; gradational contacts.												
141.58	**144.60**	**RHYc** **Undifferentiated coherant rhyolite**										
141.58 - 144.6: Light grey, texture obscured by muscovite alteration (bleached), foliated; quartz-sericite-muscovite; py-po patches; gradational lower contact marked by chlorite alteration												
<<Min: 143.5 - 144.6 0.1% Min: Arsenopyrite>>												
<<Alt: 141.58 - 144.6 Moderate-Strong Muscovite>>												
<<Struc: 143.65 - 143.66 dominant foliation>>												
144.60	**146.08**	**OI** **Heavilly disseminated sulphides in host schist**	**FG**	144.60	145.15	0.55						
144.6 - 146.08: Quartz-muscovite schist hosted.												
<<Min: 144.6 - 146.08 0.5% Min: Sphalerite>>				145.15	146.08	0.93						
<<Min: 144.6 - 146.08 5% Min: Pyrite>>												
<<Min: 144.6 - 146.08 3% Min: Pyrrhotite>>												
<<Min: 144.6 - 146.08 2% Min: Chalcopyrite>>												
<<Alt: 144.6 - 146.05 Moderate Chlorite>>												
<<Alt: 145.66 - 147.17 Strong Cordierite>>												
<<Alt: 146.05 - 148.34 Moderate-Strong Chlorite>>												
146.08	**147.17**	**OJ** **Heavilly disseminated sulphides and/or stringer style mineralization in proximal altered rock**	**FG**	146.08	147.17	1.09						
146.08 - 147.17: Tourmaline-biotite patches.												
<<Min: 146.08 - 147.17 3% Min: Sphalerite>>												
<<Min: 146.08 - 147.17 3% Min: Pyrrhotite>>												
<<Min: 146.08 - 147.17 1% Min: Galena>>												
<<Min: 146.08 - 147.17 7% Min: Chalcopyrite>>												

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
<<Min: 146.08 - 148.34 1% Min: Pyrite>>											
147.17	**148.34** **OC**	**Chalcopyrite-pyrrhotite net textured sulphides** **FG**	147.17	147.77	0.60						
147.17 - 148.34: Could be OG or OJ; tourmaline partially replacing cordierite, strong chlorite alteration.											
<<Min: 147.17 - 148.34 3% Min: Sphalerite>>			147.77	148.34	0.57						
<<Min: 147.17 - 148.34 1% Min: Galena>>											
<<Min: 147.17 - 148.34 30% Min: Chalcopyrite>>											
<<Min: 147.17 - 148.43 15% Min: Pyrrhotite>>											
<<Min: 148.24 - 149 10% Min: Magnetite>>											
<<Alt: 147.17 - 148.34 Moderate Cordierite>>											
148.34	**149.00** **OA**	**Laminar or heavilly disseminated magnetite bearing massive sulphide** **FG**	148.34	149.00	0.66						
148.34 - 149: Cordierite porphyroblasts and chalcopyrite patch at upper contact.											
<<Min: 148.34 - 149 5% Min: Sphalerite>>											
<<Min: 148.34 - 149 70% Min: Pyrite>>											
<<Min: 148.34 - 149 1% Min: Galena>>											
<<Min: 148.34 - 149 2% Min: Chalcopyrite>>											
<<Alt: 148.34 - 165.58 Weak-Moderate Cordierite>>											
149.00	**156.85** **OB**	**Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite** **FMG**	149.00	150.00	1.00						
149 - 156.85: Locally cordierite porphyroblasts patches; some intervals fractured (weakly brecciated), calcite infill; possibly barite in matrix.											
<<Min: 149 - 156.85 10% Min: Sphalerite>>			150.00	151.04	1.04						
<<Min: 149 - 156.85 70% Min: Pyrite>>			151.04	152.00	0.96						
<<Min: 149 - 156.85 3% Min: Galena>>			152.00	153.00	1.00						
<<Struc: 150.6 - 150.61 Foliation>> Lamination in massive sulfide			153.00	154.00	1.00						
			154.00	155.00	1.00						
			155.00	156.00	1.00						
			156.00	156.85	0.85						

From (m)	To (m)	Rocktype & Description		From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
156.85	**158.36**	**OA** **Laminar or heavilly disseminated magnetite bearing massive sulphide**	**FG**	156.85	157.60	0.75						
156.85 - 158.36: Abundant chalcopyrite (OG trend); magnetite bearing dominant.												
<<Min: 156.85 - 158.36 5% Min: Sphalerite>>				157.60	158.36	0.76						
<<Min: 156.85 - 158.36 3% Min: Pyrite>>												
<<Min: 156.85 - 158.36 7% Min: Pyrrhotite>>												
<<Min: 156.85 - 158.36 10% Min: Magnetite>>												
<<Min: 156.85 - 158.36 2% Min: Galena>>												
<<Min: 156.85 - 158.36 25% Min: Chalcopyrite>>												
<<Min: 156.85 - 158.36 5% Min: Barite>> In matrix												
<<Min: 156.85 - 158.36 0.1% Min: Arsenopyrite>>												
<<Struc: 157.1 - 157.11 Foliation>> Magnetite lamination in massive sulfide												
158.36	**162.87**	**OB** **Wispy laminar, fine buckshot textured, massive sulphide with lesser magnetite**	**FMG**	158.36	159.02	0.66						
158.36 - 162.87: Possibly barite in matrix; numerous clasts relics showing tarnish grey sulfide (or possibly tetrahedrite).												
<<Min: 158.36 - 162.87 15% Min: Sphalerite>>				159.02	160.00	0.98						
<<Min: 158.36 - 162.87 65% Min: Pyrite>>				160.00	161.00	1.00						
<<Min: 158.36 - 162.87 5% Min: Galena>>				161.00	162.00	1.00						
<<Min: 158.36 - 162.87 10% Min: Barite>> In matrix				162.00	162.87	0.87						
<<Min: 161.75 - 161.9 3% Min: Tetrahedrite>> Possibly tetrahedrite												
162.87	**164.78**	**OA** **Laminar or heavilly disseminated magnetite bearing massive sulphide**	**FMG**	162.87	163.80	0.93						
162.87 - 164.78: Possibly cordierite replaced by tourmaline at lower contact; barite in matrix.												
<<Min: 162.87 - 164.78 5% Min: Sphalerite>>				163.80	164.78	0.98						
<<Min: 162.87 - 164.78 60% Min: Pyrite>>												
<<Min: 162.87 - 164.78 10% Min: Magnetite>>												
<<Min: 162.87 - 164.78 1% Min: Galena>>												
<<Min: 162.87 - 164.78 5% Min: Barite>> In matrix												
<<Struc: 163.7 - 163.71 Foliation>> Magnetite lamination in massive sulfide												

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
164.78	**171.14**	**OI** **Heavilly disseminated sulphides in host schist** **FMG**	164.78	165.64	0.86						
164.78 - 171.14: Rhyolite chlorite altered hosted, possibly mixed with mafic material (wispy laminated calcite locally), mineralization concentrated in the strongly chlorite altered intervals; cordierite porphyroblasts patch at upper contact, gradational lower contact.											
<<Min: 164.78 - 171.14 0.5% Min: Sphalerite>>			165.64	166.56	0.92						
<<Min: 164.78 - 171.14 5% Min: Pyrite>>			166.56	167.38	0.82						
<<Min: 164.78 - 171.14 2% Min: Pyrrhotite>>			167.38	168.38	1.00						
<<Min: 164.78 - 171.14 0.5% Min: Galena>>			168.38	169.24	0.86						
<<Min: 164.78 - 171.14 3% Min: Chalcopyrite>>			169.24	170.20	0.96						
<<Alt: 165.58 - 168.9 Moderate-Strong Chlorite>> Locally strong associated with chalcopyrite patches			170.20	171.14	0.94						
<<Alt: 168.9 - 171.14 Moderate Chlorite>>											
<<Alt: 170 - 182 Weak-Moderate Talc-serpentine>> Possibly talc											
171.14	**173.71**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**									
171.14 - 173.71: Dark green-wispy white laminated, poorly foliated; chlorite-calcite fine grained biotite-actinolite-possibly amphibole-minor quartz- and talc (?); rare py disseminated; contact well marked at 171.14 m but talc observed at 170.63 m suggests altered mafic material above (obscured by original chlorite alteration); gradational lower contact.											
<<Min: 171.14 - 173.71 0.1% Min: Pyrite>> Rare pyrite within the foliation.											
<<Alt: 171.14 - 173.71 Moderate Calcite>>											
173.71	**175.72**	**MAFi** **Mafic Intrusions (primarily footwall mafic intrusion)**									
173.71 - 175.72: Beige-grey-light green, silica banded; possibly strongly silicified mafic interval (green-grey alteration) usually proximal to RHYi; quartz-muscovite; sulfide patch (po-sp-gl-py-cpy trace), could be considered locally as OI; quartz veinlet relic and weak fracturation; gradational contacts suggesting alteration rather than lithology change-poorly developed RHYi (?).											
<<Min: 173.71 - 175.72 2% Min: Sphalerite>>											
<<Min: 173.71 - 175.72 5% Min: Pyrrhotite>>											
<<Min: 173.71 - 175.72 1% Min: Galena>>											
<<Min: 173.71 - 175.72 0.1% Min: Chalcopyrite>>											
<<Alt: 173.71 - 175.72 Strong Silicification>> Possibly proximity of RHYi											
<<Alt: 173.71 - 175.72 Moderate Muscovite>> Possibly proximity of RHYi											
<<Alt: 173.71 - 175.72 Weak Calcite>>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 175.1 - 175.3 80% Carbonate-Sulphide 20 deg. >> Calcite-pyrite-tourmaline (?) veinlet, possibly dark chlorite; 2 cm offset

175.72 182.00 MAFi Mafic Intrusions (primarily footwall mafic intrusion)

175.72 - 182: Dark green-wispy white and black laminated, foliated-secondary foliation observed; chlorite-biotite-calcite-amphibole-talc (?); late crosscutting tourmaline-calcite veinlet and quartz-calcite veinlets; fine grained biotite in groundmass and biotite porphyroblasts (overprint); 182.00 m E.O.H.

<<Alt: 175.72 - 182 Moderate Calcite>> 182.00 m E.O.H.

<<Vein: 177.6 - 177.61 90% Quartz-Tourmaline 15 deg. >> Tourmaline-lesser quartz veinlet crosscutting the foliation, calcite in selvage

<<Struc: 181.9 - 181.91 dominant foliation>>

End of Hole @ 182

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-451

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/7/2017
UTM Easting	414827.5979	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/7/2017
UTM Northing:	6817153.2983	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1404.154	Casing Depth (m):	6.7	Length (m):	11.12	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/4/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	10/5/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-451 drilled for geotechnical characteristics over the proposed mill site. The top 6.7 m was collected for sonic overburden testing and the remainder of the hole encountered a siliceous unit and mafic volcaniclastics.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 6.70 OVBN Overburden

6.70 7.69 RHYv Undifferentiated Rhyolite volcaniclastic

6.7 - 7.69: Medium grey highly siliceous felsic with a moderate foliation. Wispy bands of muscovite and biotite (roughly concordant with foliation) spaced between ovular to rounded siliceous blebs (clasts?). Possible it's a strong siliceous overprint of MAFt.

<<Min: 6.7 - 7.69 0.1% Min: Pyrite>> Also contains minor pyrrhotite.

<<Alt: 6.7 - 11.12 Weak Calcite>> Calcite present throughout the hole, primarily in the form of bands (also containing quartz) and trace amounts can be found in the matrix of the MAFt unit.

<<Vein: 6.7 - 11.12 7% Quartz-Carbonate 60 deg. >>

7.69 11.12 MAFt Undifferentiated mafic volcaniclastic

7.69 - 11.12: Fine-grained weakly chloritic volcaniclastic. Weak to moderately foliated with irregular quartz-calcite veins 1 mm to 20 cm concordant or discordant to the foliation (some are also discontinuous). Two tourmaline-calcite-bioite-quartz veins present, a 20 cm vein at 10 m depth and a 5 cm vein at 11 m depth.

<<Min: 7.69 - 11.12 0.1% Min: Pyrrhotite>> Also contains minor pyrite.

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-451

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
		<<Min: 9.09 - 9.1 1% Min: Chalcopyrite>>									
		<<Vein: 9.92 - 10.1 95% Quartz-Tourmaline 70 deg. >> Primarily calcite-tourmaline and also contains biotite (~20%) and quartz (~10%)									
		<<Vein: 10.95 - 11 100% Quartz-Tourmaline 50 deg. >> Primarily quartz-tourmaline, also contains calcite and biotite each <10%.									
		<<Struc: 7.8 - 7.86 Trace Fault>>									
		<<Struc: 8.32 - 8.33 Weak-Moderate Foliation>> Calcite band concordant with foliation.									
		<<Struc: 9.75 - 9.76 Moderate Foliation>>									
		End of Hole @ 11.12									

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-452

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/7/2017
UTM Easting	414927.7217	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/8/2017
UTM Northing:	6817173.0195	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1392.135	Casing Depth (m):	6.1	Length (m):	40.53	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/6/2017
Local Northing:		Cemented?:	No	Core Storage Loc.:	KZK Camp	Drill Completed:	10/6/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-452 drilled for geotechnical characteristics of the proposed mill site. The top 6.1 m was collected for sonic overburden testing while the rest of the hole is comprised of intercalated mafic volcaniclastics and mudstone of the Wind Lake Formation. PVC installed to conduct downhole seismic surveys.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**6.10**	**OVBN** **Overburden**									
6.10	**10.26**	**MAFt** **Undifferentiated mafic volcaniclastic**									

6.1 - 10.26: Foliated highly calcareous metased with elongated calcite-lapilli clasts (containing pressure shadows) concordant to foliation. Medium grey in colour and while absent of chlorite the unit is dominated by a calcite overprint. Calcite is in the form of lapilli (clast-replacement), bands, veins (with quartz), and in matrix. Minor biotite (< 1mm crystals) present in strings concordant with foliation.

<<Alt: 6.1 - 10.26 Moderate Calcite>> Dominantly in bands & replaced clasts, also occurs in matrix and qz-ca veins.

<<Vein: 6.7 - 21.71 5% Quartz-Carbonate 65 deg. >> Vein set consisting primarily of veins 1 mm to 2 cm but also contains smallers veinlets (< 1 mm) and massive veins > 10 cm. Veins are concordant with foliation/laminations in the MAFt and MDS units but can also be discordant.

<<Struc: 7.65 - 7.66 Moderate Foliation>> Calcite band

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

10.26 11.62 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

10.26 - 11.62: Dark grey laminated mudstone with calcite bands and quartz-calcite veins (< 3 cm) concordant with the foliation.

<<Alt: 10.26 - 40.53 Weak-Moderate Calcite>> Occurs in bands, in matrix/laminations, and in qz-ca veins.

11.62 12.77 MAFt Undifferentiated mafic volcaniclastic

11.62 - 12.77: Fine-grained weakly chloritic volcaniclastic with irregular quartz-calcite veining. Non-foliated.

12.77 13.82 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

12.77 - 13.82: Dark grey laminated mudstone. Contains two foliations, one at 55 degrees which adheres to the laminations, and one at 80 degrees which contains parallel quartz-calcite veins. Contains biotite overprint of 1 mm crystals for 1% of the mode. Upper contact is faulted material while lower contact gradationally transitions in the MAFt unit.

13.82 16.33 MAFt Undifferentiated mafic volcaniclastic

13.82 - 16.33: Weakly chloritic fine-grained volcaniclastic. Moderately foliated with (mostly) concordant quartz-calcite veins < 1 cm. Massive 20 cm quartz-tourmaline vein at 15.1 m depth with 40 cm quartz-muscovite altered margins. 1 mm biotite overprint accounts for 1% of the mode.

<<Min: 14.68 - 19.84 0.5% Min: Pyrrhotite>> Commonly associated with calcite mineralization.

<<Alt: 14.68 - 15.03 Moderate-Strong Muscovite>> Gradational margin of white-mica + silification proximal to a massive quartz-tourmaline vein (intensifies with depth).

<<Alt: 15.34 - 15.84 Moderate-Strong Muscovite>> Gradational margin of white-mica + silification proximal to a massive quartz-tourmaline vein (intensity decreases with depth).

<<Struc: 16.16 - 16.17 Moderate Foliation>> Calcite band

16.33 19.84 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

16.33 - 19.84: Dark grey laminated mudstone with minorly deformed concordant calcite bands. Speckled biotite (1mm) accounts for 1% of the mode.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

19.84 22.46 MAFt Undifferentiated mafic volcaniclastic

19.84 - 22.46: Chloritic fine-grained volcaniclastic with a weak-moderate foliation. From the top of the interval to 21.7m depth is characterized by a homogenous unit with quartz-calcite veins concordant with the foliation. The rest of the interval is dominated by massive irregular quartz-calcite-chlorite veins to the lower contact. Both sections contain 1-2 mm calcite blebs, but don't appear to be stretched clasts akin to the MAFt unit at the top of the hole. The upper contact with the MDS unit is sharp.

<<Vein: 21.71 - 36.22 15% Quarzt-Chlorite-Carbonate>> Predominately irregular discordant quartz-calcite-chlorite with nearly equal quartz to calcite and typically <10 % chlorite.

22.46 36.22 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

22.46 - 36.22: Dark grey to black laminated mudstone with a high density of massive quartz-calcite-chlorite veins and local deformation. Calcite bands are present and are also deformed locally with the muddy/carbonaceous laminae. Some deformed sections contains small (mm scale) fractures which are commonly infilled with pyrite or pyrrhotite. Some sections of highly carbonaceous mudstone that contain a higher % of disseminated pyrite/pyrrhotite in lithology.

<<Min: 22.46 - 36.22 1% Min: Pyrrhotite>> Local patches/aggregates of up to 5%. Commonly associated with calcite mineralization.

<<Struc: 22.76 - 22.77 Moderate Foliation>> Calcite band

<<Struc: 32.68 - 35.69 Trace Fault>> Interval with zones containing brittle material with minor gouge separated by zones of competent rock.

36.22 40.53 MAFt Undifferentiated mafic volcaniclastic

36.22 - 40.53: Chloritic fine-grained volcaniclastic with a moderate foliation. Quartz-Calcite bands < 1 cm concordant with the foliaton are present throughout the unit as well as larger irregular quartz-calcite veins. Speckled biotite 1-2 mm is occurs as 1% of the mode.

<<Vein: 36.22 - 40.53 7% Quartz-Carbonate 70 deg. >> Range in size from 1 mm to 5 cm and are typically concordant with the foliation.

<<Struc: 40.19 - 40.2 Moderate Foliation>> Calcite band

End of Hole @ 40.53

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-453

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/8/2017
UTM Easting	414872.9336	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/8/2017
UTM Northing:	6817419.1119	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1387.588	Casing Depth (m):	2.3	Length (m):	11.3	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/7/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	10/7/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-453 drilled for geotechincal characteristics over the proposed mill site. The hole encountered intercalated mafic volcaniclastics and mudstones from the Wind Lake Formation.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 2.30 OVBN Overburden

2.30 4.17 MAFt Undifferentiated mafic volcaniclastic

2.3 - 4.17: Fine-grained chloritic volcaniclastic. Abundant calcite in matrix (overprint) and contains a 2 cm deformed quartz-calcite with chevron folding. The calcite also occurs in bands that can exibit gentle folding (decimeter scale wavelength).

<<Min: 2.3 - 6.51 0.1% Min: Pyrrhotite>>

<<Alt: 2.3 - 11.3 Weak-Moderate Calcite>>

<<Vein: 2.3 - 11.3 2% Quartz-Carbonate>> Quartz-calcite veins typically < 1 cm in all units. Abundance varies throughout the hole as veins most often occur in clusters. Many veins are minorly deformed with the exception of a 2 cm vein at the top of the hole (~3.1 m depth) that is strongly deformed with chevron folds.

4.17 5.38 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

4.17 - 5.38: Dark grey laminated mudstone with quartz-calcite veins. Quartz veins don't conform to the same angle to the core axis as the foliation is not well established. Upper and lower contacts with MAFt are gradational and contains intermixed chloritic and carbonaceous material.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

5.38 7.31 MAFt Undifferentiated mafic volcaniclastic

5.38 - 7.31: Light-grey fine-grained chloritic volcaniclastic. Contains abundant calcite in groundmass and irregular quartz-calcite veins up to 1.5 cm. Very weak foliation is present.

<<Min: 6.51 - 7.01 1% Min: Pyrrhotite>>

<<Min: 7.01 - 11.3 0.1% Min: Pyrite>>

<<Struc: 5.63 - 5.64 Weak Foliation>> Calcite band

7.31 8.69 MAFt Undifferentiated mafic volcaniclastic

7.31 - 8.69: Chloritic weakly foliated volcaniclastic with equigranular 1 mm biotite and calcite crystals throughout the interval (groundmass is chlorite dominated). Textural changes between overlying and underlying MAFt are gradational.

<<Struc: 7.37 - 7.38 Weak Foliation>>

8.69 11.30 MAFt Undifferentiated mafic volcaniclastic

8.69 - 11.3: Light-grey fine-grained chloritic volcaniclastic. Relatively absent of quartz-calcite veins although few exist up to 1 cm. Speckled biotite (overprint) < 1 mm present at varying modes throughout the interval but overall accounts for 1%.

End of Hole @ 11.3

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-454

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/8/2017
UTM Easting	414909.2849	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/8/2017
UTM Northing:	6817578.69	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1374.573	Casing Depth (m):	5.47	Length (m):	11.19	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/7/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	10/7/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-454 drilled for geotechnical characteristics over the proposed mill site. The hole encountered intercalated mafic volcaniclastics and mudstones from the Wind Lake Formation. An interval containing sphalerite mineralization within a Quartz-Calcite vein from 5.47 to 6.16 m depth was sampled.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description
0.00	**5.47**	**OVBN** **Overburden**
5.47	**7.15**	**MAFt** **Undifferentiated mafic volcaniclastic**

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
5.47	6.16	0.69						

5.47 - 7.15: Fine-grained chloritic volcaniclastic with abundant fracturing and massive irregular quartz-calcite-sulphide veins. Significant mineralization of sphalerite (with minor galena) occurs as 0.5 to 2 cm lenses/patches in quartz-calcite veins from 5.59 to 5.85 m depth.

<<Min: 5.63 - 5.84 5% Min: Sphalerite>> Irregular sphalerite patches/aggregates from 1 mm to 1.5 cm hosted within massive quartz-calcite veins. Three different local aggregates/concentration of sphalerite mineralization within the interval.

<<Min: 5.84 - 7.15 0.5% Min: Pyrite>>

<<Alt: 5.47 - 11.19 Weak-Moderate Calcite>> Calcite occuring in matrix (pervasive) as well as in bands. Inconsistent throughout the hole but present in all units. More intense in MAFt units.

<<Vein: 5.47 - 11.19 20% Quartz-Carbonate-Sulphide>> Massive veins prevalent throughout the hole that is predominately quartz-calcite and some containing sulphides and chlorite. Sulphide mineralization is typically pyrite but also includes sphalerite mineralization in the upper portion of the hole.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

7.15 9.69 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

7.15 - 9.69: Dark grey to black laminated mudstone. Massive irregular quartz-calcite veins are abundant throughout the interval as well as cross-cutting healed fractures (< 2 mm) filled with pyrite. Some veins contain pyrite lenses/patches up to 1.5 cm width. Carbonaceous mudstone from 7.90 to 8.53 m has quartz-filled blebs that are potentially amygdules.

<<Min: 7.15 - 7.39 3% Min: Pyrite>> Irregular cm scale clusters/aggregates cross-cutting massive veins and lithology

<<Min: 7.39 - 11.19 1% Min: Pyrite>> Fracture-fill and in bands/veins.

<<Vein: 7.65 - 8.5 0.1% Pyrite>> Pyrite stringers discordant and cross-cutting all lithologies and veins.

<<Struc: 7.65 - 7.66 Weak-Moderate Foliation>> Calcite band.

<<Struc: 8.09 - 8.1 Weak-Moderate Foliation>> Calcite band

9.69 10.01 MAFt **Undifferentiated mafic volcaniclastic**

9.69 - 10.01: Chloritic fine-grained volcaniclastic with weak foliation and containing quartz-calcite veins & veinlets. Upper contact is dominated by veining while lower contact is faulted.

10.01 11.19 MDS **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**

10.01 - 11.19: Dark grey laminated mudstone. Interval is dominated by faulted material and massive quartz-calcite veining which has deformed the mudstone. Generally the massive veins are competent while the mudstone is fractured/rubble.

<<Struc: 10.01 - 11 Weak Fault>> Faulted interval with zones of highly fractured & gouged material separated by zones of competent rock.

End of Hole @ 11.19

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-455

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/8/2017
UTM Easting	414686.2354	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/9/2017
UTM Northing:	6817506.8325	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1411.881	Casing Depth (m):	3.8	Length (m):	12.8	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/7/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	10/8/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-455 drilled for geotechnical characteristics over the proposed mill site. The hole encountered intercalated mafic volcaniclastics and mudstones from the Wind Lake Formation.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 3.80 OVBN Overburden

<<Alt: 2.8 - 8 Weak Calcite>>

3.80 6.60 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

3.8 - 6.6: Laminated mudstone with irregular deformed calcite bands. Unit is highly fractured and is oxidized along joint surfaces and in the calcareous overprint. Lower contact with MAFt is faulted

<<Vein: 3.8 - 12.8 1% Quartz-Carbonate>> Irregular quartz-calcite veins up to 1.5 cm concordant with the foliation. Veins are often minorly folded and some are discordant to the foliation.

<<Struc: 3.8 - 7 Trace Fault>> Highly fractured material above fault zone.

6.60 8.88 MAFt Undifferentiated mafic volcaniclastic

6.6 - 8.88: Chloritic fine-grained volcaniclastic containing elongated calcite-replaced clasts (lapilli). The interval is faulted for the upper from 6.6 m to 7.9 m depth in which textures are not always preserved. From 7.9 m to the bottom of the interval the unit contains the lapilli's as well as 1-2 mm calcite blebs (lapilli or amygdules?).

<<Min: 8 - 12.8 0.1% Min: Pyrite>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Alt: 8 - 12.8 Weak-Moderate Calcite>> Bands and clast-replacement.

<<Struc: 7 - 7.8 Weak-Moderate Fault>> Fault zone consisting of gouge and heavily fractured material.

8.88 12.80 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

8.88 - 12.8: Laminated carbonaceous mudstone intermixed with fine-grained chloritic volcaniclastics. Some sections are more mudstone-dominated, others are chlorite-dominated (however no greater than 30 cm), while some are an even mix of the two. Wispy fracture-filled pyrite veinlets are common in the mudstone. 1-5mm Calcite-replaced deformed lithic fragments occur in the chloritic unit. Some fragments are pyrite-filled.

<<Vein: 8.88 - 12.02 0.1% Pyrite>> Stringer fracture-filled pyrite veinlets up to 2 mm wide, cross-cutting all lithologies, foliations, and other veins.

<<Struc: 9.36 - 9.37 Weak-Moderate Foliation>>

<<Struc: 12.6 - 12.61 Weak-Moderate Foliation>>

End of Hole @ 12.8

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-456

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/9/2017
UTM Easting	414792.649	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/9/2017
UTM Northing:	6817334.118	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1404.407	Casing Depth (m):	3.71	Length (m):	11.21	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/8/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	10/8/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-456 drilled for geotechnical characteristics over the proposed mill site. The hole encountered intercalated mafic volcaniclastics and mudstone of the Wind Lake Formation.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 3.71 OVBN Overburden

3.71 4.76 MAFt Undifferentiated mafic volcaniclastic

3.71 - 4.76: Chloritic fine-grained volcaniclastic with banded calcite and in groundmass. Abundant hairline fracturing often filled with pyrite.

<<Min: 3.71 - 11.21 0.1% Min: Pyrite>>

<<Alt: 3.71 - 11.21 Weak-Moderate Calcite>>

<<Vein: 3.71 - 11.21 Quartz-Carbonate>> Quartz-calcite veins generally orientated with the foliation/laminations but can have slight deviations and in some cases discordant. Deformation varies from gentle to tight folding.

<<Vein: 3.71 - 11.21 0.1% Pyrite>> Fracture-filled veinlets with pyrite crosscutting all lithologies and veins.

4.76 5.31 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

4.76 - 5.31: Dark grey carbonaceous laminated mudstone with calcite banding. Fold of calcite bands & laminations present with an 8 cm wavelength. Cross-cutting fracture-fill pyrite also present.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
5.31	**11.21**	**MAFt** **Undifferentiated mafic volcaniclastic**									

5.31 - 11.21: Fine-grained chloritic volcaniclastic with 1 mm to 1 cm calcite lapilli throughout the interval (4% of the mode). Most lapilli are < 3 mm and have slight to no elongation from strain. Quartz-calcite veins and bands are also present throughout the interval.

<<Struc: 6.42 - 6.43 Weak Foliation>>

<<Struc: 7.67 - 7.87 Weak Fault>> Rubble zone with gouge.

<<Struc: 8.99 - 9 Weak-Moderate Foliation>>

End of Hole @ 11.21

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-457

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/11/2017
UTM Easting	414923.0578	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/11/2017
UTM Northing:	6817394.8439	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1387.189	Casing Depth (m):	5.29	Length (m):	11.29	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/8/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	10/8/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-457 drilled for geotechnical characteristics over the proposed mill site. The hole encountered intercalated mudstone/siltstone and mafic volcaniclastics of the Wind Lake Formation.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**5.29**	**OVBN** **Overburden**									
5.29	**6.08**	**MDS** **Undifferentiated carbonaceous mudstone & tuffaceous mudstone**									

5.29 - 6.08: Dark laminated mudstone with deformed quartz-calcite-pyrrhotite veins and a massive quartz-calcite vein. Sharp sawtooth contact with underlying silty/wacke unit.

<<Min: 5.29 - 8.68 2% Min: Pyrrhotite>> Pyrrhotite in the form of isolated lenses (1 mm to 1 cm wide) as well as continuous veins associated with quartz-calcite veining.

<<Alt: 5.29 - 11.29 Weak-Moderate Calcite>> Calcite alteraton throughout the hole in the form of bands, blebs, veins, and pervasive sections. Calcite mode in pervasive sections can reach up to 80% of the rock.

<<Vein: 5.29 - 11.29 2% Quartz-Carbonate 70 deg. >> Irregular quartz-calcite veins similarily orientated to the core axis with slight deviations. Veins are 1 mm to 4 cm wide with the exception of an massive discordant vein at the top of the hole in the mudstone. Discordant stringer veins also occur.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

6.08 8.68 WCK Wacke - sandstone with 15-75% clay matrix

6.08 - 8.68: Grey very fine-grained sedimentary unit. No visible sedimentary textures/structures but contains quartz-calcite veining/banding and abundant pyrrhotite lenses. Upper contact with mudstone is sharp (saw-toothed) while lower contact is gradational to the chloritic volcaniclastic.

<<Alt: 8 - 8.29 Weak-Moderate Silicification>> Interval of silification containing deformed bands of calcite, pyrrhotite, and the silicified wacke lithology.

<<Struc: 7.78 - 7.79 Weak Foliation>>

8.68 11.29 MAFt Undifferentiated mafic volcaniclastic

8.68 - 11.29: Fine-grained chloritic calcareous volcaniclastic. Calcite is abundant in groundmass and as 1-3 mm blebs throughout the hole. Quartz-calcite veins are predominately irregular but have a similar angle to the core axis that follows a weak foliation. Speckled biotite 1-2 mm acounts for 0.5% of the mode.

<<Min: 8.68 - 11.29 0.5% Min: Pyrrhotite>> Disseminated pyrrhotite < 2 mm in lithology as well as vein mineralization with quartz and calcite.

<<Alt: 11.16 - 11.29 Weak Silicification>> Silicification of lithology.

<<Struc: 9.98 - 9.99 Weak Foliation>>

End of Hole @ 11.29

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-458

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/9/2017
UTM Easting	414876.8193	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/10/2017
UTM Northing:	6817390.2809	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1389.552	Casing Depth (m):	3	Length (m):	41.3	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/8/2017
Local Northing:		Cemented?:	No	Core Storage Loc.:	KZK Camp	Drill Completed:	10/9/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-458 drilled for geotechnical characteristics over the proposed mill site. The hole encountered intercalated mafic volcaniclastics and mudstone of the Wind Lake Formation and contains minor base metals mineralization. PVC installed for downhole seismic surveys.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 3.00 OVBN Overburden

3.00 30.14 MAFt Undifferentiated mafic volcaniclastic

3 - 30.14: Fine-grained chloritic volcaniclastic with variable textures and weakly foliated. Colour varies from a pale green to darker greyish-green but invariably contains chlorite. Calcite occurs as blebs, bands, and in groundmass at variable modes up to a total of 50% of the rock in given sections. Quartz-Calcite-(Sulphide) veins 1 mm to 8 cm occur throughout as irregular and discordant veins with some minor veins concordant to the weak foliation. Speckled biotite crystals 1-2 mm are present throughout the unit at variable modes from 1-25% in given sections. Lower contact with mudstone is faulted.

<<Min: 3 - 30.14 0.5% Min: Pyrrhotite>> Pyrrhotite (with minor pyrite) mineralization within quartz-calcite veins.

<<Alt: 3 - 41.3 Weak-Moderate Calcite>> Calcite alteration in the form of bands, blebs, veins, and in matrix of chloritic volcaniclastics. Variable intensity from moderate to trace alteration.

<<Alt: 3.18 - 3.55 Weak Silicification>> Silification with no proximal massive quartz veins.

<<Alt: 4.61 - 4.74 Weak Silicification>> Silification with no proximal massive quartz veins.

<<Alt: 19.23 - 20.39 Weak-Moderate Silicification>> Silification of chloritic volcaniclastic giving it a pale grey colour. Intensity gradationally intensifies towards the centre of the interval. No massive quartz veins nearby by contains minor (< 0.5 cm) veins within, as consistent with the rest of the hole.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 3 - 41.3 2% Quartz-Carbonate>> Quartz-calcite veins concordant with the foliation/laminations but can also occur discordant.

<<Vein: 27.44 - 35.65 Quartz-Pyrite>> Fracture-fill stringer veinlets of pyrite +/- quartz cross-cutting all lithologies and structures and in some cases has becciated the hostrock. Globs of coarse pyrite occurs in mudstone unit

<<Struc: 8.55 - 8.56 Weak Foliation>>

<<Struc: 10.9 - 10.95 Weak Fault>> Gouged and brecciated zone surrounded by competent rock.

<<Struc: 11.55 - 11.56 Weak Foliation>>

<<Struc: 26.78 - 26.79 Weak Foliation>>

<<Struc: 28.98 - 30.3 Weak Fault>> Fault zone with gouged sections surrounded by highly fractured rock.

30.14 35.65 MDSc Carbonaceous dominant mudstone

30.14 - 35.65: Dark grey to black laminated carbonaceous mudstone with abundant sulphide (pyrite and/or pyrrhotite) veining. Silty beds & laminations are present up to 22 cm within the carbonaceous/muddy beds. Calcite banding and quartz-calcite-sulphide veins occurs concordant to the foliation, but the dominant veining is stringy/irregular veins cross-cutting all lithologies and veins, and in larger veins has brecciated the host rock. Sulphides and calcite also occurs in blebs/patches.

<<Min: 30.14 - 35.65 5% Min: Pyrite>>

<<Struc: 31.97 - 32.15 Weak-Moderate Fault>> Gouged and brecciated zone. Competent surrounding rock.

<<Struc: 33.17 - 33.26 Weak Fault>> Gouged and brecciated zone surrounded by competent rock.

<<Struc: 34.2 - 34.21 Weak Foliation>>

35.65 41.30 MAFt Undifferentiated mafic volcaniclastic

35.65 - 41.3: Fine-grained chloritic volcaniclastic. Weak-moderate foliation with abundant quartz-calcite-(sulphide) veining occuring concordantly (regular veins) or discordantly (irregular veins). Larger (> 0.5 cm)pyrrhotite veins associated with qz-ca veins can contain minor amounts of chalcopyrite, while one vein contains chalcopyrite and sphalerite (~5% of the 2 cm vein) at 39.56 m depth. The upper 20 cm of the unit contains mudstone laminations and potentially clasts as it transitioned from the MDSc to MAFt unit.

<<Min: 35.65 - 41.3 0.1% Min: Chalcopyrite>> Chalcopyrite mineralization in < 1 cm clusters within quartz-calcite-pyrrhotite veins. 5 occurences of chalcopyrite within these veins.

<<Min: 39.55 - 39.6 5% Min: Sphalerite>> Sphalerite mineralization within a pyrrhotite-quartz-calcite vein. Also contains chalcopyrite.

<<Struc: 41.09 - 41.1 Weak Foliation>>

End of Hole @ 41.3

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-459

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/11/2017
UTM Easting	414881.9835	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/11/2017
UTM Northing:	6817360.8208	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1391.948	Casing Depth (m):	2.9	Length (m):	41.3	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/9/2017
Local Northing:		Cemented?:	No	Core Storage Loc.:	KZK Camp	Drill Completed:	10/9/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
						Parent Hole:	

Comments:

K17-459 drilled for geotechnical characteristics over the proposed mill site. The hole encountered intercalated mafic volcaniclastics and mudstone of the Wind Lake Formation and contains minor base metals mineralization. PVC installed for downhole seismic surveys.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 2.90 OVBN Overburden

<<Vein: 0 - 13.63 3% Quartz-Carbonate>> Quartz-calcite veins, predominately irregular and concordant with the foliation but also occurs discordantly.

2.90 24.66 MAFt Undifferentiated mafic volcaniclastic

2.9 - 24.66: Fine-grained chloritic volcaniclastic with quartz+calcite replaced lapilli. The unit is weakly foliated and contains regular quartz-calcite veins concordant with the foliation. Elongated (teardrop) lapilli 0.1 to 1.5 cm are present in certain sections (0.3 to 2 m each) and are absent in the rest of the interval. 1 mm ankerite present from 11 m to 13.4 m depth for 2% of the mode in the given section. A section of massive quartz-calcite-tourmaline veining and faulting/fracturing is present from 13.15 to 18.8 m depth.

<<Alt: 2.9 - 41.3 Weak-Moderate Calcite>> Trace to moderate calcite alteration throughout the hole in the form of bands, clast-replacement, and in groundmass of the chloritic volcaniclastics.

<<Vein: 13.63 - 16.68 30% Quartz-Tourmaline>> Massive quartz-tourmaline veins, some containing pyrite, chlorite, and rip-ups of host lithology.

<<Vein: 16.68 - 24.66 3% Quartz-Carbonate 60 deg. >> Quartz-calcite veins primarily concordant with some discordant (10% of veins).

<<Struc: 8.67 - 8.86 Weak Fault>> Brecciated + gouged zone. Low angle to core axis (~20 degrees).

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 12.27 - 12.28 Weak Foliation>> Calcite band

<<Struc: 13.33 - 14.86 Trace Fault>> Faukt zone of gouged+brecciated material with intervals of competent rock. Lower 36 cm of interval is lithified fault breccia (re-worked fault).

<<Struc: 18.39 - 18.8 Weak-Moderate Fault>> Gouge zone.

<<Struc: 20.53 - 20.54 Weak Foliation>>

24.66 25.54 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

24.66 - 25.54: Dark grey laminated mudstone with calcite banding and pyrite veins. Pyrite is found in quartz-calcite veins and as stringy fracture-fill veinlets. The unit is intermixed with the chloritic volcaniclastics and the upper & lower contacts ate gradational.

<<Min: 24.66 - 25.54 2% Min: Pyrite>>

<<Vein: 24.66 - 25.54 3% Quartz-Carbonate-Sulphide>> Deformed pyrrhotite-quartz-calcite veins < 1 cm, continuous or discontinuous in core.

25.54 26.62 MAFt Undifferentiated mafic volcaniclastic

25.54 - 26.62: Fine-grained chloritic volcaniclastic. Weakly foliated with concordant quartz-calcite veins (some folded) and discordant pyrite veins cross-cutting the quartz-calcite veins. Upper & lower contacts with mudstone are gradational.

<<Min: 25.54 - 26.62 0.5% Min: Pyrite>>

<<Vein: 25.54 - 26.62 2% Quartz-Carbonate 70 deg. >> Quartz-calcite veins < 1 cm concordant with the foliation.

26.62 29.00 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

26.62 - 29: Dark grey to black laminated carbonaceous mudstone with pyrrhotite-quartz-calcite veining. Moderate foliation established with calcite banding and the po-qz-ca veins (70 degrees TCA) however the foliation is discordant from the mudstone laminations (35 degrees TCA). Chloritic unit bound by quartz-calcite veins from 27.42 to 27.57 m depth.

<<Min: 26.62 - 29 4% Min: Pyrrhotite>>

<<Vein: 26.62 - 29 5% Quartz-Carbonate-Sulphide 65 deg. >> Deformed pyrrhotite-quartz-calcite veins < 1 cm, continuous or discontinuous in core.

<<Struc: 28.27 - 28.28 Weak Foliation>>

<<Struc: 28.29 - 28.3 Moderate Bedding>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
29.00	**41.30**	**MAFt** **Undifferentiated mafic volcaniclastic**									

29 - 41.3: Fine-grained chloritic volcaniclastic. Irregular quartz-calcite-(sulphide) veining occurs throughout and is concordant with a weak foliation. No convincing lapilli clasts in contrast to the uppermost (22 m) MAFt unit. Beds of mudstone up to 14 cm present in the lowermost 2 m of the interval. Pepper-textured 1 mm biotite accounts for < 1 % of the mode.

<<Min: 29 - 41.3 0.5% Min: Pyrrhotite>>

<<Min: 34.76 - 35 0.5% Min: Sphalerite>> Sphalerite mineralization within two irregular pyrrhotite-quartz-calcite veins.

<<Vein: 29 - 41.3 3% Quartz-Carbonate 70 deg. >> Quartz-calcite veins, predominately irregular and concordant with the foliation but also occurs discordantly.

<<Struc: 38.3 - 38.4 Weak Foliation>>

End of Hole @ 41.3

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-460

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/11/2017
UTM Easting	414887.3206	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/12/2017
UTM Northing:	6817329.1736	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1392.875	Casing Depth (m):	3.05	Length (m):	40.55	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/10/2017
Local Northing:		Cemented?:	No	Core Storage Loc.:	KZK Camp	Drill Completed:	10/11/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
						Parent Hole:	

Comments:

K17-459 drilled for geotechnical characteristics over the proposed mill site. The hole encountered intercalated mafic volcaniclastics and mudstone of the Wind Lake Formation and contains minor base metals mineralization. PVC installed for downhole seismic surveys.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**3.05**	**OVBN**	**Overburden**									
3.05	**24.75**	**MAFt**	**Undifferentiated mafic volcaniclastic**									

3.05 - 24.75: Fine-grained chloritic volcaniclastic with a weak foliation. The unit invariably contains chlorite in groundmass however other mineralogies (i.e. carbonates, biotite, sulphides) are variable. Calcite occurs as groundmass, bands, blebs, and in quartz-calcite veins. Biotite primarily occurs as overprint in the form speckled 1-2 mm crystals but is also found in veins. Sulphides (primarily Pyrrhotite) are found in veins and disseminated in lithology (<1% of mode). 1 mm crystals of Ankerite present in the upper portions of the hole above the massive quartz-calcite vein at 8.6 m (1% of mode in this section). Colour of the unit ranges from dark green to pale grey depending on the abundance of calcite in the groundmass.

<<Min: 3.05 - 24.75 0.1% Min: Pyrrhotite>> Pyrrhotite + Pyrite present in lithology (disseminated) and in veins.

<<Alt: 3.05 - 40.55 Weak-Moderate Calcite>> Calcite alteration in groundmass, blebs, bands, and veins.

<<Vein: 3.05 - 40.55 Quartz-Carbonate>> Discordant calcite veins that either have regular form (planar) or irregular (deformed). Majority of the veins are discordant however some concordant veins occur with an alpha angle TCA of 80-60.

<<Vein: 8.68 - 9.97 99% Quarzt-Chlorite-Carbonate>> Predominately quartz-calcite with patches (0.5 to 5 cm) of pyrrhotite and chlorite.

<<Struc: 10.03 - 10.16 Trace Fault>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 11.91 - 11.92 Weak Foliation>>

<<Struc: 19.74 - 19.75 Weak-Moderate Foliation>>

<<Struc: 23.05 - 24 Trace Fault>> Heavily fractured zone with little gouge.

24.75 25.17 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

24.75 - 25.17: Dark grey mudstone with stringy calcite-pyrite veins. Gradational upper & lower contacts.

<<Min: 24.75 - 25.17 2% Min: Pyrrhotite>> Increase in sulphide abundance in the mudstone unit.

25.17 40.55 MAFt Undifferentiated mafic volcaniclastic

25.17 - 40.55: Fine-grained chloritic volcaniclastic. Dark green to medium grey depending on the abundance of calcite. Similar characteristics to the upper MAFt unit in terms of texture variation & mineralogical characteristics. Sections up to 0.5 m containing calcite blebs (potentially replaced lapilli) are present between 35 to 38 m depth. Sphalerite and chalcopyrite mineralization present in thin (< 1.5 cm) veins with calcite +/- pyrrhotite.

<<Min: 25.17 - 40.55 0.1% Min: Pyrite>> Pyrite in veins, pyrrhotite mineralization as well in wispy vein aggregates. Minor chalcopyrite mineralization in larger pyrrhotite aggregrates.

<<Min: 31.74 - 31.87 1% Min: Sphalerite>> Sphalerite in 3 mm veins with calcite.

<<Min: 37.81 - 37.83 5% Min: Sphalerite>> 2 mm veinlet containing sphalerite.

<<Alt: 27.76 - 27.94 Weak Silicification>>

<<Alt: 30.24 - 30.48 Weak Silicification>>

<<Struc: 26.39 - 26.51 Trace Fault>> Highly fractured zone with minor clay.

<<Struc: 27.35 - 27.44 Trace Fault>> Highly fractured zone with minor clay.

<<Struc: 31.85 - 31.86 Weak Foliation>> Concordant sphalerite-calcite vein.

<<Struc: 37.95 - 37.96 Weak-Moderate Foliation>> Calcite band

End of Hole @ 40.55

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-461

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/13/2017
UTM Easting	414909.4129	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/13/2017
UTM Northing:	6817280.4014	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1391.87	Casing Depth (m):		Length (m):	42.8	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/11/2017
Local Northing:		Cemented?:	No	Core Storage Loc.:	KZK Camp	Drill Completed:	10/12/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-461 drilled for geotechnical characteristics over the proposed mill site. The hole encountered intercalated mafic volcaniclastics and mudstone of the Wind Lake Formation.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 4.57 OVBN Overburden

4.57 5.81 MAFt Undifferentiated mafic volcaniclastic

4.57 - 5.81: Fine-grained chloritic volcaniclastic with elongated calcite clasts. The unit is reversely graded as lapilli decreases in width from 1 cm to 3 mm from the top to the bottom of the interval

<<Min: 4.57 - 5.81 0.1% Min: Pyrrhotite>>

<<Alt: 4.57 - 42.8 Weak-Moderate Calcite>> Calcite overprint in the form of blebs, bands, and lapilli. Calcite veins (with quartz and/or sulphides) also present.

<<Vein: 4.57 - 42.8 3% Quartz-Carbonate 75 deg. >> Quartz-calcite veins typically 1 mm to 1 cm concordant wth the foliation. Massive veins up to 9 cm are rare.

5.81 7.95 MDSc Carbonaceous dominant mudstone

5.81 - 7.95: Dark grey to black carbonaceous mudstones. Abundant pyrrhotite (4%) associated with calcite vein mineralization. Upper contact is sharp with a quartz-calcite vein while lower contact is gradational.

<<Min: 5.81 - 7.95 4% Min: Pyrrhotite>> Pyrrhotite-calcite veins.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 5.81 - 7.95 4% Carbonate-Sulphide 75 deg. >> Patchy/discontinuous/irregular veins contact predominately pyrrhotite with calcite and likely minor/trace quartz.

<<Struc: 7.18 - 7.19 Weak Foliation>> pyrrhotite-calcite vein.

<<Struc: 7.21 - 7.22 Moderate Bedding>> Mudstone lamination.

7.95 42.40 MAFt Undifferentiated mafic volcaniclastic

7.95 - 42.4: Fine-grained chloritic volcaniclastic with variable textures and modal mineralogy. Invariably contains chlorite in groundmass and often contains calcite blebs & veins (with quartz) and 1-3 mm biotite porpyhyroblasts as overprint. Lapilli are present in specific sections (typically < 1 m each) throughout the hole and contain a variable amount of lapilli. An interval with easily distinguishable lapilli exists from 11.23 to 12.23 m depth. Two beds of mudstone (9 cm and 17 cm) exist at 38.4 m depth with a sawtooth contact.

<<Alt: 30.91 - 31.81 Weak-Moderate Silicification>> Margins of silicification (bleaching) associated with a massive quartz vein. Margin above the vein is 40 cm while the bottom margin is 20 cm.

<<Vein: 31.33 - 31.74 Quartz-Carbonate-Sulphide>> Massive quartz-calcite-pyrite vein with bleached margins. 1 cm discordant tourmaline vein adjacent to the massiv vein.

<<Struc: 20.68 - 20.9 Trace Fault>>

<<Struc: 22.02 - 22.2 Trace Fault>>

<<Struc: 22.49 - 22.5 Moderate Foliation>>

<<Struc: 25.6 - 25.85 Moderate Fault>> Heavily gouged.

<<Struc: 27.66 - 27.67 Moderate Foliation>>

<<Struc: 29.63 - 29.72 Weak Fault>>

<<Struc: 35.67 - 35.93 Weak Fault>>

<<Struc: 40.99 - 41 Moderate Foliation>>

<<Struc: 42.2 - 42.52 Weak-Moderate Fault>>

42.40 42.80 MAFt Undifferentiated mafic volcaniclastic

42.4 - 42.8: Dark grey carbonaceous mudstone with quartz-calcite veining. Contact with upper MAFt is faulted.

End of Hole @ 42.8

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-462

Prospect:	Infrastructure	Hole Type:	SONIC/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/14/2017
UTM Easting	414893.6115	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/14/2017
UTM Northing:	6817280.2884	Casing Pulled?:		Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1393.833	Casing Depth (m):	3.8	Length (m):	42.8	Drill Rig:	TerraSonic
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/12/2017
Local Northing:		Cemented?:	No	Core Storage Loc.:	KZK Camp	Drill Completed:	10/13/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-462 drilled for geotechnical characteristics of the proposed mill site. The hole encountered intercalated mafic volcaniclastics and mudstones of the Wind Lake Formation. PVC was installed to conduct downhole seismic surveys.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 3.80 OVBN Overburden

3.80 5.99 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

3.8 - 5.99: Laminated carbonaceous mudstone with calcareous bands. Lower contact with MAFt is sharp.

<<Min: 3.8 - 22.73 0.1% Min: Pyrite>> Pyrite in the discordant quartz-tourmaline-calcite veins.

<<Alt: 3.8 - 42.8 Weak-Moderate Calcite>> Bands, blebs, and clast-replacement. Calcite also found in veins often with quartz +/- sulphides.

<<Vein: 3.8 - 42.8 3% Quartz-Carbonate 70 deg. >> Quartz-calcite +/- sulphide +/- bioite veins typically 1 mm to 1 cm wide and concordant with foliation. In very weakly foliated MAFt the veins are more discordant.

<<Struc: 5 - 5.01 Moderate Foliation>>

5.99 22.73 MAFt Undifferentiated mafic volcaniclastic

5.99 - 22.73: Fine-grained chloritic volcaniclastic. Calcite present as bands, blebs, and in lapilli (elongated). The unit does not contain lapilli over the entire interval but rather in sections, most notably from 19.90 to 21.80 m depth.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 7.36 - 28.22 0.5% Quartz-Tourmaline 0 deg. >> < 1 cm Quartz-tourmaline-calcite-pyrite veins orientated along core axis.

<<Vein: 22.3 - 22.64 100% Quartz-Carbonate>> Contains brecciated inclusions of host rock along margins.

<<Struc: 7.19 - 7.34 Trace Fault>>

<<Struc: 20.8 - 20.81 Moderate Foliation>>

<<Struc: 21.85 - 22 Weak Fault>>

22.73 25.13 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

22.73 - 25.13: Laminated carbonaceous mudstone with calcite banding. Increase in pyrrhotite in contrast to the chloritic units present in calcite veins. Sharp upper & lower contacts with MAFt.

<<Min: 22.73 - 25.13 3% Min: Pyrrhotite>> Pyrrhotite in calcite veins/blebs.

25.13 41.89 MAFt Undifferentiated mafic volcaniclastic

25.13 - 41.89: Fine-grained chloritic volcaniclastic. Calcite present as bands, blebs, and in lapilli (elongated). The unit contains lapilli from 26.80 to 27.35 m depth. 1-2 mm speckled biotite crystals present but only in sections no greater than 1.5 m.

<<Min: 25.13 - 41.81 0.1% Min: Pyrite>> Pyrite in the discordant qz-tml-ca veins.

<<Min: 41.81 - 42.8 1% Min: Pyrite>> Discordant stringy pyrite veins & clusters.

<<Alt: 26.19 - 26.8 Weak-Moderate Silicification>> Silicification of lithology along the margins of a massive quartz-calcite-pyrrhotite vein.

<<Struc: 32.35 - 32.36 Moderate Foliation>>

<<Struc: 36.29 - 36.3 Moderate Foliation>>

<<Struc: 36.53 - 36.62 Weak Fault>> Breccia + gouge

<<Struc: 40.94 - 41.11 Moderate Fault>>

<<Struc: 41.75 - 42.43 Weak Fault>>

41.89 42.80 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

41.89 - 42.8: Laminated carbonaceous mudstone with quartz-calcite-pyrite veins. Contact with the upper MAFt unit is faulted.

End of Hole @ 42.8

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-463

Prospect:	Infrastructure	Hole Type:	ODEX/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/20/2017
UTM Easting	414954.0297	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/21/2017
UTM Northing:	6817279.2018	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1386.647	Casing Depth (m):	8.98	Length (m):	12.22	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/20/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	10/20/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
						Parent Hole:	

Comments:

K17-463 drilled for geotechnical characteristics for the proposed mill site. The hole encountered mafic volcaniclastics of the Wind Lake Formation with a massive tourmaline vein orientated along the core axis and altering the host-rock.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 8.98 OVBN Overburden

<<Alt: 8.97 - 10.57 Weak-Moderate Silicification>> Silicification of lithlology proximal to the tourmaline vein.

<<Alt: 8.97 - 12.22 Weak-Moderate Albite>> Dark-purple wall-rock alteration by the tourmaline vein. Typically extends ~2 cm from the vein but can extend up to 4 cm. Biotite is present as overprint akin to the biotite in the unaltered rock. Potentially albite alteration however it was not confidently identified.

8.98 9.81 MAFt Undifferentiated mafic volcaniclastic

8.98 - 9.81: Fine-grained chloritic volcaniclastic. Massive tourmaline vein present throughout the unit orientated along the core axis, as is faulted in some section. The vein has bleached (altered) the lithology up to 4 cm from the vein into a dark-purple coloured mineral (albite alteration?). Contains large rounded quartz blobs, likely discontinuous quartz-veins/pods.

<<Min: 8.98 - 12.22 0.1% Min: Pyrite>> Minor clusters of pyrite associated with the tourmaline vein.

<<Alt: 8.98 - 12.22 Weak-Moderate Calcite>> Calcite in groundmass of the unaltered lithology (by the TML vein), in quartz-calcite pods/veins, and in lapilli.

<<Vein: 8.98 - 12.22 15% Tourmaline 5 deg. >> Massive tourmaline vein throughout the hole orientated along the core axis. Minor calcite and quartz component within the vein. The vein has altered the host rock to a dark-purple (potentially albite) assemblage up to 4 cm from the vein, and in some places has a white halo (2-4 mm from vein) of calcite surrounding the vein.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 8.98 - 12.22 5% Quartz-Carbonate 72 deg. >> Quartz-calcite veins and pods concordant with the foliation. Pods are irregularly shaped and can be loosely concordant or discordant, however some are evidently connected to the concordant veins.

<<Struc: 9.77 - 12.22 Weak Fault>> Faulting within the tourmaline vein, gouge present.

9.81 9.97 MAFt Undifferentiated mafic volcaniclastic

9.81 - 9.97: Clast-supported lapilli tuff (quartz-calcite lapilli), containing elongated and stacked lapilli up to 1.5 cm width. In between the lapilli is a glassy dark-brown crystal. In the minor amounts of groundmass (< 5% of the unit) chlorite and the purple-alteration from the tourmaline vein are present.

9.97 12.22 MAFt Undifferentiated mafic volcaniclastic

9.97 - 12.22: Fine-grained chloritic volcaniclastic. Continuation of the previous MAFt unit with the massive tourmaline vein present along the core axis and bleaching the host rock. Contains large rounded quartz blobs, likely discontinuous quartz-veins/pods.

Rock unaffected by the tourmaline vein looks like a characteristic MAFt from the Wind Lake formation, whereas it is fine-grained with a chloritic groundmass containing concordant quartz-calcite veins and calcite bands, as well as minor biotite overprint.

<<Struc: 12.08 - 12.09 Moderate Foliation>>

End of Hole @ 12.22

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GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-464

Prospect:	Infrastructure	Hole Type:	ODEX/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/21/2017
UTM Easting	414841.4382	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/22/2017
UTM Northing:	6817082.6382	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1399.842	Casing Depth (m):	4.69	Length (m):	40.39	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/20/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	10/21/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-464 drilled for geotechnical characteristics for the proposed mill site. The hole encountered intercalated mudstone and mafic volcaniclastics from the Wind Lake Formation as well as a heavily MU-SI altered interval at 28.7 m depth. PVC installed to conduct downhole seismic surveys.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 4.69 OVBN Overburden

4.69 25.67 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

4.69 - 25.67: Dark grey to black laminated mudstone. Contains intermixed fine-grained chloritic volcaniclastic material as well as a few silty (lighter grey) laminations. High abundance of faulting throughout the unit with moderate or greater intensities. Concordant quartz-calcite veins are present.

<<Min: 4.69 - 40.39 0.1% Min: Pyrite>> Minor mineralization of pyrite in clusters and pyrrhotite disseminated or in veins (with quartz-calcite). Sulphide % slightly increases in mudstones.

<<Alt: 4.69 - 40.39 Weak-Moderate Calcite>> Calcite in veins and blebs.

<<Vein: 5.09 - 5.54 95% Quartz-Carbonate-Sericite>>

<<Vein: 5.54 - 28.74 5% Quartz-Carbonate 75 deg. >> Quartz-calcite veins primarily concordant with the foliation/laminations but also occurs discordantly.

<<Struc: 5.25 - 5.3 Moderate Fault>> Within massive vein.

<<Struc: 5.39 - 5.59 Strong Fault>> Clay gouge adjacent to massive quartz-calcite vein contact.

<<Struc: 6.85 - 6.86 Moderate Bedding>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Struc: 9.54 - 10.64 Moderate Fault>> Heavily brecciated and gouged zone.

<<Struc: 11.03 - 11.37 Weak-Moderate Fault>> Heavily brecciated and gouged.

<<Struc: 15.21 - 15.28 Moderate Fault>> Gouged and heavily brecciated

<<Struc: 16.17 - 16.18 Moderate Foliation>>

<<Struc: 16.58 - 16.86 Strong Fault>> Clay gouge with brecciated fragments.

<<Struc: 17.23 - 17.38 Strong Fault>> Almost entirely clay-gouged with minor fragments

<<Struc: 19.87 - 19.91 Strong Fault>> Clay gouge

<<Struc: 21.81 - 21.96 Moderate Fault>>

<<Struc: 22.65 - 23.18 Weak-Moderate Fault>>

<<Struc: 25.57 - 25.58 Moderate Bedding>>

25.67 27.13 MAFt Undifferentiated mafic volcaniclastic

25.67 - 27.13: Fine-grained chloritic volcaniclastic. Contains irregular quartz-calcite veins (no greater than 4 cm) and intermixed mudstone.

27.13 28.74 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

27.13 - 28.74: Dark grey to black laminated mudstone with intermixed chloritic volcaniclastics.

28.74 32.22 RHY undifferentiated rhyolite

28.74 - 32.22: Strongly foliated muscovite schist with foliations of sericite and quartz. Massive quartz-tourmaline-calcite-muscovite vein from 28.98 to 29.58 m with margins of muscovite alteration. The remainder of the unit is pervasively silicified (contains rounded quartz crystals) and sericite altered, and contains 1 mm white speckled crystals overprinted (not carbonate). Upper and lower contacts with mudstone are sharp and the upper contact is faulted. The unit is probably an alteration product (vein-related) that has completely replaced the protolith. Mudstone laminae appear at 31.96 m depth.

<<Alt: 28.74 - 28.98 Moderate Muscovite>> Margin of massive qz-ca-tml vein

<<Alt: 29.62 - 29.89 Moderate Muscovite>> Margin of massive qz-ca-tml vein

<<Alt: 30.09 - 30.79 Strong Muscovite>> Foliations of sericite with calcite-quartz foliations. Protolith indistinguishable.

<<Alt: 30.79 - 32.22 Weak-Moderate Silicification>> Quartz blebs & veins within the proximal alteration from the massive vein.

<<Alt: 30.79 - 32.22 Weak-Moderate Muscovite>> Sericite alteration, gradationally decreasing from the top of the interval to the bottom where there is a sharp contact with the underlying mudstone.

<<Vein: 28.98 - 29.63 99% Quartz-Carbonate-Sericite>> Massive vein (predominately quartz) that has altered the host rock.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

<<Vein: 29.63 - 40.39 Quartz-Carbonate>> Quartz-calcite veins primarily concordant with the foliation/laminations but also occurs discordantly. Abundance decreases in the MDSc unit.

<<Struc: 28.74 - 28.9 Strong Fault>>

<<Struc: 28.75 - 28.89 Moderate-Strong Fault>>

<<Struc: 30.41 - 30.42 Strong Foliation>> Sericite/quartz foliations

32.22 37.10 MDSc Carbonaceous dominant mudstone

32.22 - 37.1: Black carbonaceous mudstone. Contains calcite blebs & discordant veins but the abundance is significantly less than other units. Massive quartz-calcite veins, 8 cm bed of MAFt are present.

<<Vein: 34.41 - 35.17 10% Quartz-Carbonate-Sericite>> Set of 3 massive veins.

37.10 39.24 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

37.1 - 39.24: Laminated mudstone with intermixed fine-grained chloritic volcaniclastic (MAFt). The mudstone is the predominant lithology however MAFt comprises of up to 40% of the interval in beds between 1 cm to 27 cm. Calcite is abundant in concordant & discordant veins and blebs.

<<Struc: 37.26 - 37.27 Moderate Foliation>>

39.24 40.39 MDS Undifferentiated carbonaceous mudstone & tuffaceous mudstone

39.24 - 40.39: Dark grey laminated mudstone with abundant quartz-calcite veins. Increase in sulphide mineralization (pyrrhotite) relative to the overlying unit at about 1% of the mode.

End of Hole @ 40.39

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-465

Prospect:	Infrastructure	Hole Type:	ODEX/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/22/2017
UTM Easting	414512.1721	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/23/2017
UTM Northing:	6815098.8323	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1478.02	Casing Depth (m):	4.62	Length (m):	10.62	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/22/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	10/22/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-465 drilled for geotechnical characteristics for the proposed mill site. The hole encountered felsic lapilli tuff in the upper 8 m and undefined arsenopyrite-bearing rhyolitic unit in the lower 2 m.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

0.00 4.62 OVBN Overburden

4.62 8.09 RHYvl Lapilli tuff

4.62 - 8.09: Strongly foliated felsic lapilli tuff. Lapilli are up to 1 cm wide by 3 cm long and they gradationally decrease in size from the top of the interval to the bottom (reverse grading). Fine pyrite present within the lapilli.

<<Min: 4.62 - 8.09 1% Min: Pyrite>> Fine dusting of pyrite within lapilli

<<Alt: 4.62 - 10.62 Weak Calcite>>

<<Vein: 7.62 - 10.62 0.5% Quartz-Carbonate>> Wispy quartz-calcite veinlets/stringers.

<<Struc: 4.65 - 5.83 Weak-Moderate Fault>> Fault zone with several gouged.brecciated surfaces.

<<Struc: 6.22 - 6.23 Strong Foliation>>

<<Struc: 6.4 - 6.75 Trace Fault>>

<<Struc: 7.24 - 7.31 Trace Fault>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

8.09 10.62 RHY undifferentiated rhyolite

8.09 - 10.62: Pale green, transitional fine-grained to coarse grained unit containing biotite crystals (pepper-textured), calcite crystals, quartz crystals, and mica. The upper 75 cm is predominately micaceous with no calcite in groundmass (although present in wispy bands) and contains disseminated/clustered arsenopyrite. The remainder of the unit is fine-grained at the top and coarsens downhole with the biotite, calcite, and quartz with equigranular 1 mm crystals. The unit remains its pale green colour throughout from the mica.

<<Min: 8.09 - 8.93 1% Min: Arsenopyrite>> 1 mm disseminated crystals throughout the interval, however a large cluster is present from 8.20 to 8.38 that comprises 5% of the mode.

<<Alt: 8.09 - 8.93 Moderate Muscovite>> Section of highly micaceous/sericitic rock with arsenopyrite. Ankerite and wispy calcite bands present. Rock is very friable and clay-dominated in some sections.

<<Alt: 8.09 - 9.88 Weak Ankerite>> Small (< 1 mm) crystals of ankerite overprint.

<<Struc: 8.36 - 8.41 Weak Fault>>

<<Struc: 8.67 - 8.78 Weak Fault>>

<<Struc: 10.5 - 10.51 Moderate Foliation>>

End of Hole @ 10.62

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: KZK **Hole Number:** K17-466

Prospect:	Infrastructure	Hole Type:	ODEX/DD	Survey Type:	RTK DGPS	Logged By:	Trevor Smith
Grid:	NAD83_Z9	Hole Diameter:	96	Survey By:	Challenger	Date Logging Start:	10/23/2017
UTM Easting	414486.6562	Core Size:	HQ3	Azimuth:	0	Date Logging Complete:	10/23/2017
UTM Northing:	6815027.2472	Casing Pulled?:	Yes	Dip:	-90	Drill Company:	MSD
UTM Elev. (m):	1480.208	Casing Depth (m):	4.55	Length (m):	15.05	Drill Rig:	Prospector
Local Easting:		Stored?:	Yes	Claims Title		Drill Started:	10/23/2017
Local Northing:		Cemented?:	Yes	Core Storage Loc.:	KZK Camp	Drill Completed:	10/23/2017
Local Elev. (m):				Hole Completed?:	Completed	Purpose:	Geotech
Comments:						Parent Hole:	

K17-466 drilled for geotechnical characteristics for the proposed mill site. The hole encountered rhyolitic lapilli tuff, rhyolite flow, and pelite from the KZK formation. Sphalerite mineralization is present within quartz veins proximal to coherent flows.

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
0	-90	0			PLND-LiDAR	Knight Piésold			☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %
0.00	**4.55**	**OVBN Overburden**									
4.55	**13.55**	**RHYvl Lapilli tuff**									

4.55 - 13.55: Felsic lapilli tuff. Strongly foliated with micaceous and siliceous bands and minor sulphides. Sphalerite mineralization present at 13.49 m depth. The unit is faulted from 10 to 13 m depth.

<<Min: 13.49 - 14.12 1% Min: Sphalerite>>

<<Alt: 4.55 - 10.55 Weak Calcite>>

<<Alt: 4.55 - 15.05 Moderate Muscovite>> From photos

<<Vein: 4.55 - 10.55 1% Quartz-Carbonate 55 deg. >> Also hosts sphalerite or pyrite mineralization.

<<Struc: 4.55 - 5.5 Moderate Fault>>

<<Struc: 7.18 - 7.19 Strong Foliation>>

<<Struc: 9.8 - 12.94 Moderate Fault>> Fault zone with intervals of gouge-dominated, breccia-dominated, or heavily fractured rock.

<<Struc: 13.1 - 13.2 Moderate Fault>>

<<Struc: 13.27 - 13.28 Moderate Foliation>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu %	Pb %	Zn %

13.55 13.89 RHYcw Curdy textured-flow banded coherent rhyolite (flows, subvolcanics)

13.55 - 13.89: Coherent rhyolite flow with deformed bands. Crenulation cleavage present. Sphalerite mineralization present in bands with quartz.

13.89 14.40 RHYv Undifferentiated Rhyolite volcaniclastic

13.89 - 14.4: Fine-grained felsic volcaniclastic containing no flow bands or lapilli. Contains banded quartz-calcite and sphalerite (with quartz).

<<Struc: 14.3 - 14.5 Trace Fault>>

14.40 14.78 PEL Equigranular biotite + calcite +/- quartz rock, typically with finely intercalated contacts

14.4 - 14.78: Biotite rich pelite with concordant quartz-calcite veins. Upper contact with rhyolite is heavily fractured and lower contact is sharp.

14.78 15.05 RHYv Undifferentiated Rhyolite volcaniclastic

14.78 - 15.05: Fine-grained felsic volcaniclastic containing no flow bands or lapilli. Contains banded quartz-calcite and disseminated cubic pyrite (< 2 mm).

End of Hole @ 15.05

Appendix R: Geotechnical Drill Data

This appendix contains all geotechnical data from the 2017 drill program. Data is presented in separate tables, with the first page of each table starting on the page number indicated in Table R-1 below.

Table R-1: Table of contents for the mine site geotechnical data in this appendix

Table	Data Included	Page Number	Number of Pages
R-2	Recovery, RQD, and joint counts	2	39
R-3	Magnetic susceptibility	41	146
R-4	Bulk density measurements	187	14

Table R-2: Recovery, RQD, and joint counts of 2017 Drilling

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-420	4.47	5	0.53	0.53	100.00	0.11	20.75	7
K17-420	5	8	3.00	2.63	87.67	1.73	57.67	27
K17-420	8	9.5	1.50	1.71	114.00	0.99	66.00	17
K17-420	11	14	3.00	2.52	84.00	1.87	62.33	30
K17-420	14	17	3.00	2.44	81.33	1.93	64.33	22
K17-420	17	20	3.00	2.71	90.33	2.28	76.00	14
K17-420	20	23	3.00	2.88	96.00	2.80	93.33	7
K17-420	23	26	3.00	2.93	97.67	2.06	68.67	22
K17-420	26	29	3.00	2.35	78.33	1.21	40.33	40
K17-420	29	32	3.00	2.87	95.67	2.29	76.33	27
K17-420	32	35	3.00	2.85	95.00	2.22	74.00	25
K17-420	35	38	3.00	2.90	96.67	2.52	84.00	20
K17-420	38	41	3.00	2.92	97.33	2.82	94.00	10
K17-420	41	44	3.00	2.83	94.33	2.70	90.00	8
K17-420	44	47	3.00	2.94	98.00	2.63	87.67	16
K17-420	47	50	3.00	2.96	98.67	2.84	94.67	11
K17-420	50	53	3.00	2.71	90.33	2.44	81.33	11
K17-420	53	56	3.00	3.12	104.00	2.96	98.67	9
K17-420	56	59	3.00	2.79	93.00	2.67	89.00	10
K17-420	59	62	3.00	2.67	89.00	1.56	52.00	47
K17-420	62	65	3.00	3.05	101.67	2.99	99.67	10
K17-420	65	68	3.00	2.96	98.67	2.66	88.67	12
K17-420	68	71	3.00	2.97	99.00	2.88	96.00	6
K17-420	71	74	3.00	2.93	97.67	2.63	87.67	15
K17-420	74	77	3.00	2.97	99.00	2.74	91.33	15
K17-420	77	80	3.00	3.05	101.67	2.82	94.00	9
K17-420	80	83	3.00	2.90	96.67	2.75	91.67	4
K17-420	83	86	3.00	2.91	97.00	2.77	92.33	14
K17-420	86	89	3.00	2.95	98.33	2.87	95.67	4
K17-420	89	92	3.00	3.09	103.00	2.95	98.33	5
K17-420	92	95	3.00	2.89	96.33	2.84	94.67	1
K17-420	95	98	3.00	3.05	101.67	2.76	92.00	11
K17-420	98	101	3.00	2.97	99.00	2.97	99.00	2
K17-420	101	104	3.00	3.03	101.00	2.94	98.00	3
K17-420	104	107	3.00	2.89	96.33	2.71	90.33	17
K17-420	107	110	3.00	2.99	99.67	2.86	95.33	12
K17-420	110	113	3.00	2.96	98.67	2.96	98.67	1
K17-420	113	116	3.00	3.04	101.33	2.63	87.67	21
K17-420	116	119	3.00	2.96	98.67	2.84	94.67	10
K17-420	119	122	3.00	2.98	99.33	2.85	95.00	12
K17-420	122	125	3.00	2.89	96.33	2.89	96.33	3
K17-420	125	128	3.00	3.01	100.33	2.95	98.33	14
K17-420	128	131	3.00	2.53	84.33	0.91	30.33	30
K17-420	131	134	3.00	2.73	91.00	2.23	74.33	16
K17-420	134	137	3.00	2.78	92.67	2.23	74.33	25
K17-420	137	140	3.00	2.56	85.33	2.05	68.33	30
K17-420	140	143	3.00	2.92	97.33	2.02	67.33	22

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-420	143	146	3.00	2.78	92.67	2.28	76.00	21
K17-420	146	149	3.00	2.81	93.67	2.46	82.00	14
K17-420	149	152	3.00	2.96	98.67	2.57	85.67	15
K17-420	152	155	3.00	2.98	99.33	2.27	75.67	17
K17-420	155	158	3.00	2.90	96.67	2.49	83.00	25
K17-420	158	161	3.00	2.84	94.67	2.65	88.33	17
K17-420	161	164	3.00	2.88	96.00	2.31	77.00	17
K17-420	164	167	3.00	2.63	87.67	1.46	48.67	28
K17-420	167	170	3.00	2.97	99.00	2.06	68.67	40
K17-420	170	173	3.00	2.84	94.67	2.52	84.00	22
K17-420	173	176	3.00	2.40	80.00	1.77	59.00	30
K17-420	176	179	3.00	3.05	101.67	2.33	77.67	31
K17-420	179	182	3.00	2.87	95.67	1.96	65.33	32
K17-420	182	185	3.00	2.69	89.67	1.84	61.33	38
K17-420	185	188	3.00	2.92	97.33	2.30	76.67	27
K17-420	188	191	3.00	2.43	81.00	1.91	63.67	18
K17-420	191	193.6	2.60	2.85	109.62	2.22	85.38	28
K17-420	193.6	196.7	3.10	3.00	96.77	2.37	76.45	38
K17-420	196.7	198	1.30	1.25	96.15	0.87	66.92	20
K17-420	198	200	2.00	2.00	100.00	1.87	93.50	10
K17-421	0.6	0.8	0.20	0.00	0.00	0.00	0.00	8
K17-421	0.8	1.62	0.82	0.82	100.00	0.11	13.41	20
K17-421	1.62	3.28	1.66	1.54	92.77	0.43	25.90	26
K17-421	3.28	3.76	0.48	0.48	100.00	0.11	22.92	30
K17-421	3.76	4.67	0.91	0.56	61.54	0.00	0.00	22
K17-421	4.67	5.28	0.61	0.11	18.03	0.00	0.00	4
K17-421	5.28	6.2	0.92	0.47	51.09	0.11	11.96	8
K17-421	6.2	7.72	1.52	1.35	88.82	0.24	15.79	61
K17-421	7.72	9.45	1.73	1.55	89.60	0.62	35.84	69
K17-421	9.45	10.69	1.24	1.27	102.42	1.18	95.16	5
K17-421	10.69	11.32	0.63	0.63	100.00	0.48	76.19	4
K17-421	11.32	12.22	0.90	0.59	65.56	0.00	0.00	36
K17-421	12.22	13.74	1.52	1.45	95.39	1.00	65.79	4
K17-421	13.74	15.27	1.53	1.45	94.77	1.12	73.20	4
K17-421	15.27	16.79	1.52	1.48	97.37	1.00	65.79	6
K17-421	16.79	17.68	0.89	0.80	89.89	0.70	78.65	2
K17-421	17.68	18.31	0.63	0.61	96.83	0.12	19.05	2
K17-421	18.31	19.83	1.52	1.42	93.42	0.42	27.63	61
K17-421	19.83	21.36	1.53	1.45	94.77	0.94	61.44	6
K17-421	21.36	22.22	0.86	0.84	97.67	0.35	40.70	34
K17-421	22.22	22.88	0.66	0.62	93.94	0.29	43.94	3
K17-421	22.88	24.41	1.53	1.54	100.65	1.20	78.43	5
K17-421	24.41	25.93	1.52	1.53	100.66	0.80	52.63	5
K17-421	25.93	27.21	1.28	1.42	110.94	1.04	81.25	6
K17-421	27.21	28.7	1.49	1.49	100.00	1.23	82.55	4
K17-421	28.7	29.5	0.80	0.80	100.00	0.59	73.75	32
K17-421	29.5	30.15	0.65	0.65	100.00	0.57	87.69	2
K17-421	30.15	31.65	1.50	1.54	102.67	1.54	102.67	0

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-421	31.65	33.15	1.50	1.50	100.00	1.50	100.00	2
K17-421	33.15	34.65	1.50	1.49	99.33	1.49	99.33	1
K17-421	34.65	36.15	1.50	1.48	98.67	1.36	90.67	5
K17-421	36.15	37.25	1.10	1.10	100.00	1.10	100.00	3
K17-421	37.25	39.15	1.90	1.90	100.00	1.55	81.58	11
K17-421	39.15	40.65	1.50	1.50	100.00	0.85	56.67	12
K17-422	0	5	5.00	2.91	58.20	1.73	34.60	22
K17-422	5	8	3.00	2.97	99.00	1.77	59.00	27
K17-422	8	11	3.00	3.00	100.00	2.83	94.33	12
K17-422	11	14	3.00	2.79	93.00	2.00	66.67	18
K17-422	14	17	3.00	2.92	97.33	2.27	75.67	17
K17-422	17	20	3.00	2.99	99.67	2.28	76.00	20
K17-422	20	23	3.00	2.43	81.00	1.73	57.67	24
K17-422	23	26	3.00	3.02	100.67	2.87	95.67	9
K17-422	26	29	3.00	2.85	95.00	2.54	84.67	12
K17-422	29	32	3.00	3.01	100.33	2.72	90.67	12
K17-422	32	35	3.00	2.87	95.67	2.68	89.33	7
K17-422	35	38	3.00	3.13	104.33	2.99	99.67	7
K17-422	38	41	3.00	2.90	96.67	2.16	72.00	26
K17-422	41	44	3.00	2.65	88.33	1.93	64.33	28
K17-422	44	47	3.00	3.31	110.33	1.16	38.67	52
K17-422	47	50	3.00	2.54	84.67	1.24	41.33	34
K17-422	50	53	3.00	1.77	59.00	0.38	12.67	38
K17-422	53	56	3.00	1.63	54.33	0.83	27.67	28
K17-422	56	59	3.00	2.18	72.67	0.95	31.67	43
K17-422	59	62	3.00	2.90	96.67	2.36	78.67	21
K17-422	62	65	3.00	2.98	99.33	2.80	93.33	11
K17-422	65	68	3.00	2.82	94.00	2.82	94.00	8
K17-422	68	71	3.00	2.95	98.33	2.71	90.33	10
K17-422	71	74	3.00	2.98	99.33	2.77	92.33	11
K17-422	74	77	3.00	2.62	87.33	1.77	59.00	22
K17-422	77	80	3.00	2.91	97.00	2.51	83.67	9
K17-422	80	83	3.00	2.91	97.00	2.73	91.00	6
K17-422	83	86	3.00	3.00	100.00	2.64	88.00	10
K17-422	86	89	3.00	2.84	94.67	2.33	77.67	13
K17-422	89	92	3.00	3.02	100.67	2.66	88.67	12
K17-422	92	95	3.00	2.97	99.00	2.87	95.67	10
K17-422	95	98	3.00	3.04	101.33	2.93	97.67	4
K17-422	98	101	3.00	2.96	98.67	2.74	91.33	8
K17-422	101	104	3.00	3.07	102.33	2.65	88.33	13
K17-422	104	107	3.00	2.41	80.33	1.10	36.67	31
K17-422	107	110	3.00	2.91	97.00	2.48	82.67	15
K17-422	110	113	3.00	2.76	92.00	2.24	74.67	9
K17-422	113	116	3.00	2.96	98.67	2.46	82.00	21
K17-422	116	119	3.00	3.06	102.00	2.93	97.67	4
K17-422	119	122	3.00	2.91	97.00	2.91	97.00	3
K17-422	122	125	3.00	3.05	101.67	2.78	92.67	16
K17-422	125	128	3.00	2.91	97.00	2.47	82.33	22

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-422	128	131	3.00	3.02	100.67	2.60	86.67	17
K17-422	131	134	3.00	2.89	96.33	2.67	89.00	11
K17-422	134	137	3.00	2.96	98.67	2.67	89.00	20
K17-422	137	140	3.00	1.83	61.00	0.14	4.67	69
K17-422	140	143	3.00	1.78	59.33	0.71	23.67	52
K17-422	143	146	3.00	2.70	90.00	1.18	39.33	53
K17-422	146	149	3.00	2.98	99.33	2.95	98.33	9
K17-422	149	152	3.00	2.98	99.33	2.59	86.33	16
K17-422	152	155	3.00	2.68	89.33	2.10	70.00	23
K17-422	155	158	3.00	2.94	98.00	2.14	71.33	32
K17-422	158	161	3.00	2.91	97.00	1.90	63.33	35
K17-422	161	164	3.00	2.96	98.67	2.66	88.67	16
K17-422	164	167	3.00	2.83	94.33	2.47	82.33	21
K17-422	167	170	3.00	2.93	97.67	2.74	91.33	10
K17-422	170	173	3.00	2.99	99.67	2.34	78.00	24
K17-422	173	176	3.00	3.01	100.33	2.35	78.33	28
K17-422	176	179	3.00	2.96	98.67	2.74	91.33	17
K17-422	179	182	3.00	2.97	99.00	2.67	89.00	17
K17-422	182	185	3.00	3.03	101.00	2.66	88.67	16
K17-422	185	188	3.00	2.99	99.67	2.47	82.33	18
K17-422	188	190.1	2.10	1.97	93.81	0.21	10.00	45
K17-422	190.1	191	0.90	0.90	100.00	0.56	62.22	10
K17-422	191	194	3.00	2.98	99.33	2.08	69.33	30
K17-422	194	197	3.00	2.95	98.33	2.51	83.67	20
K17-422	197	200	3.00	2.90	96.67	2.72	90.67	11
K17-422	200	203	3.00	3.08	102.67	2.70	90.00	19
K17-422	203	206	3.00	3.04	101.33	2.90	96.67	10
K17-422	206	209	3.00	2.88	96.00	2.29	76.33	28
K17-422	209	212	3.00	3.05	101.67	2.37	79.00	21
K17-422	212	215	3.00	2.95	98.33	2.12	70.67	25
K17-422	215	218	3.00	2.98	99.33	2.90	96.67	5
K17-422	218	221	3.00	3.00	100.00	2.59	86.33	15
K17-423	0.4	1.46	1.06	0.00	0.00	0.00	0.00	42
K17-423	1.46	1.59	0.13	0.13	100.00	0.00	0.00	1
K17-423	1.59	1.77	0.18	0.18	100.00	0.00	0.00	2
K17-423	1.77	3.27	1.50	1.10	73.33	0.60	40.00	4
K17-423	3.27	4.77	1.50	1.12	74.67	0.35	23.33	6
K17-423	4.77	6.27	1.50	1.08	72.00	0.32	21.33	60
K17-423	6.27	7.77	1.50	1.49	99.33	0.69	46.00	7
K17-423	7.77	8.52	0.75	0.67	89.33	0.41	54.67	5
K17-423	8.52	9.29	0.77	0.63	81.82	0.11	14.29	31
K17-423	9.29	10.79	1.50	1.30	86.67	0.82	54.67	25
K17-423	10.79	12.29	1.50	1.43	95.33	1.29	86.00	9
K17-423	12.29	13.79	1.50	1.49	99.33	1.31	87.33	11
K17-423	13.79	15.29	1.50	1.49	99.33	1.29	86.00	9
K17-423	15.29	16.79	1.50	1.58	105.33	1.38	92.00	8
K17-423	16.79	18.29	1.50	1.48	98.67	1.31	87.33	8
K17-423	18.29	19.79	1.50	1.40	93.33	1.19	79.33	10

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-423	19.79	21.29	1.50	1.49	99.33	1.49	99.33	4
K17-423	21.29	22.79	1.50	1.50	100.00	1.40	93.33	5
K17-423	22.79	24.29	1.50	1.50	100.00	1.34	89.33	4
K17-423	24.29	25.79	1.50	1.56	104.00	1.56	104.00	5
K17-423	25.79	27.29	1.50	1.47	98.00	1.47	98.00	2
K17-423	27.29	28.4	1.11	1.11	100.00	1.05	94.59	8
K17-423	28.4	30.29	1.89	1.89	100.00	1.53	80.95	8
K17-423	30.29	31.79	1.50	1.52	101.33	1.52	101.33	4
K17-423	31.79	33.29	1.50	1.51	100.67	1.42	94.67	3
K17-423	33.29	34.79	1.50	1.50	100.00	1.43	95.33	5
K17-423	34.79	36.29	1.50	1.50	100.00	1.50	100.00	5
K17-423	36.29	37.79	1.50	1.45	96.67	1.30	86.67	3
K17-423	37.79	39.29	1.50	1.50	100.00	1.50	100.00	2
K17-423	39.29	40.79	1.50	1.50	100.00	1.49	99.33	1
K17-424	3.74	5	1.26	1.03	81.75	0.71	56.35	7
K17-424	5	8	3.00	2.83	94.33	1.32	44.00	28
K17-424	8	11	3.00	2.20	73.33	0.86	28.67	34
K17-424	11	14	3.00	3.00	100.00	1.50	50.00	36
K17-424	14	17	3.00	3.02	100.67	1.61	53.67	35
K17-424	17	20	3.00	2.48	82.67	0.99	33.00	33
K17-424	20	23	3.00	2.99	99.67	0.74	24.67	47
K17-424	23	26	3.00	2.97	99.00	1.08	36.00	38
K17-424	26	29	3.00	2.42	80.67	1.19	39.67	38
K17-424	29	32	3.00	2.90	96.67	1.56	52.00	30
K17-424	32	35	3.00	3.11	103.67	2.14	71.33	27
K17-424	35	38	3.00	2.74	91.33	1.44	48.00	41
K17-424	38	41	3.00	2.65	88.33	1.34	44.67	33
K17-424	41	44	3.00	3.09	103.00	2.26	75.33	26
K17-424	44	47	3.00	3.05	101.67	2.79	93.00	5
K17-424	47	50	3.00	2.98	99.33	2.38	79.33	17
K17-424	50	53	3.00	2.95	98.33	2.87	95.67	7
K17-424	53	56	3.00	3.04	101.33	2.53	84.33	17
K17-424	56	59	3.00	2.96	98.67	2.84	94.67	5
K17-424	59	62	3.00	2.69	89.67	1.70	56.67	25
K17-424	62	65	3.00	3.02	100.67	2.77	92.33	13
K17-424	65	68	3.00	2.98	99.33	2.98	99.33	1
K17-424	68	71	3.00	2.99	99.67	2.61	87.00	12
K17-424	71	74	3.00	3.01	100.33	2.93	97.67	4
K17-424	74	77	3.00	2.99	99.67	2.77	92.33	12
K17-424	77	80	3.00	2.96	98.67	2.89	96.33	8
K17-424	80	83	3.00	3.11	103.67	3.11	103.67	4
K17-424	83	86	3.00	2.82	94.00	2.55	85.00	8
K17-424	86	89	3.00	3.09	103.00	2.50	83.33	14
K17-424	89	92	3.00	2.92	97.33	1.72	57.33	24
K17-424	92	95	3.00	2.96	98.67	2.07	69.00	20
K17-424	95	98	3.00	2.89	96.33	1.66	55.33	28
K17-424	98	101	3.00	2.51	83.67	0.54	18.00	38
K17-424	101	104	3.00	3.36	112.00	0.89	29.67	120

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-424	104	107	3.00	3.10	103.33	2.02	67.33	26
K17-424	107	110	3.00	3.00	100.00	2.24	74.67	19
K17-424	110	113	3.00	3.10	103.33	2.22	74.00	22
K17-424	113	116	3.00	2.89	96.33	2.44	81.33	16
K17-424	116	119	3.00	2.88	96.00	1.95	65.00	22
K17-424	119	122	3.00	2.92	97.33	2.77	92.33	8
K17-424	122	125	3.00	3.02	100.67	2.83	94.33	4
K17-424	125	128	3.00	2.62	87.33	2.48	82.67	10
K17-424	128	131	3.00	3.12	104.00	3.12	104.00	7
K17-424	131	134	3.00	2.98	99.33	2.85	95.00	10
K17-424	134	137	3.00	3.00	100.00	2.91	97.00	6
K17-424	137	140	3.00	2.92	97.33	2.82	94.00	7
K17-424	140	143	3.00	3.00	100.00	2.82	94.00	10
K17-424	143	146	3.00	3.01	100.33	2.68	89.33	12
K17-424	146	149	3.00	2.96	98.67	2.03	67.67	18
K17-424	149	152	3.00	3.00	100.00	2.67	89.00	11
K17-424	152	155	3.00	2.86	95.33	1.17	39.00	36
K17-424	155	158	3.00	3.03	101.00	1.91	63.67	25
K17-424	158	161	3.00	3.11	103.67	2.86	95.33	9
K17-424	161	164	3.00	2.93	97.67	2.78	92.67	6
K17-424	164	167	3.00	3.10	103.33	2.70	90.00	15
K17-424	167	170	3.00	2.76	92.00	2.32	77.33	18
K17-425	1.3	3	1.70	0.00	0.00	0.00	0.00	68
K17-425	3	3.32	0.32	0.30	93.75	0.00	0.00	2
K17-425	3.32	4.82	1.50	1.26	84.00	0.15	10.00	60
K17-425	4.82	6.32	1.50	1.11	74.00	0.40	26.67	60
K17-425	6.32	7.82	1.50	1.50	100.00	1.13	75.33	13
K17-425	7.82	9.32	1.50	1.28	85.33	0.77	51.33	20
K17-425	9.32	10.82	1.50	1.53	102.00	0.88	58.67	15
K17-425	10.82	12.32	1.50	1.40	93.33	1.07	71.33	5
K17-425	12.32	13.82	1.50	1.46	97.33	1.25	83.33	5
K17-425	13.82	15.15	1.33	1.24	93.23	0.65	48.87	53
K17-425	15.15	15.32	0.17	0.17	100.00	0.10	58.82	1
K17-425	15.32	16.82	1.50	1.49	99.33	1.34	89.33	4
K17-425	16.82	18.32	1.50	1.30	86.67	0.89	59.33	60
K17-425	18.32	19.82	1.50	1.50	100.00	0.87	58.00	60
K17-425	19.82	21.32	1.50	1.44	96.00	0.79	52.67	60
K17-425	21.32	22.72	1.40	0.95	67.86	0.00	0.00	56
K17-425	22.72	22.82	0.10	0.10	100.00	0.00	0.00	2
K17-425	22.82	24.32	1.50	1.53	102.00	1.25	83.33	3
K17-425	24.32	25.82	1.50	1.46	97.33	1.46	97.33	4
K17-425	25.82	27.32	1.50	1.50	100.00	1.50	100.00	1
K17-425	27.32	28.82	1.50	1.37	91.33	1.20	80.00	3
K17-425	28.82	30.32	1.50	1.46	97.33	1.20	80.00	2
K17-425	30.32	31.82	1.50	1.49	99.33	1.49	99.33	0
K17-425	31.82	33.32	1.50	1.50	100.00	1.50	100.00	1
K17-425	33.32	34.82	1.50	1.44	96.00	1.30	86.67	5
K17-425	34.82	36.32	1.50	1.50	100.00	1.21	80.67	60

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-425	36.32	37.82	1.50	1.46	97.33	1.26	84.00	2
K17-425	37.82	39.32	1.50	1.51	100.67	1.28	85.33	3
K17-425	39.32	40.82	1.50	1.49	99.33	1.45	96.67	1
K17-426	6.5	7.72	1.22	1.20	98.36	1.03	84.43	12
K17-426	7.72	8.42	0.70	0.66	94.29	0.60	85.71	3
K17-426	8.42	9.25	0.83	0.82	98.80	0.82	98.80	1
K17-426	9.25	10.75	1.50	1.41	94.00	1.30	86.67	2
K17-426	10.75	12.25	1.50	1.48	98.67	1.17	78.00	6
K17-426	12.25	13.75	1.50	1.50	100.00	0.99	66.00	60
K17-426	13.75	15.25	1.50	1.53	102.00	0.83	55.33	60
K17-426	15.25	16.75	1.50	1.48	98.67	1.13	75.33	7
K17-426	16.75	18.25	1.50	1.49	99.33	1.00	66.67	8
K17-426	18.25	19.75	1.50	1.50	100.00	0.58	38.67	8
K17-426	19.75	21.25	1.50	1.28	85.33	0.44	29.33	10
K17-426	21.25	22.75	1.50	1.48	98.67	0.97	64.67	8
K17-426	22.75	24.25	1.50	1.45	96.67	1.40	93.33	4
K17-426	24.25	25.75	1.50	1.43	95.33	1.23	82.00	5
K17-426	25.75	27.25	1.50	1.50	100.00	1.50	100.00	4
K17-426	27.25	28.9	1.65	1.65	100.00	1.51	91.52	2
K17-426B	6.5	7.32	0.82	0.41	50.00	0.41	50.00	3
K17-426B	7.32	8.92	1.60	1.56	97.50	1.56	97.50	15
K17-426B	8.92	10.48	1.56	1.55	99.36	1.55	99.36	16
K17-426B	10.48	11.98	1.50	1.55	103.33	1.55	103.33	8
K17-426B	11.98	13.48	1.50	1.44	96.00	1.44	96.00	8
K17-426B	13.48	14.98	1.50	1.53	102.00	1.53	102.00	7
K17-426B	14.98	16.48	1.50	1.44	96.00	1.44	96.00	3
K17-426B	16.48	17.98	1.50	1.54	102.67	1.54	102.67	4
K17-426B	17.98	19.48	1.50	1.23	82.00	0.54	36.00	23
K17-426B	19.48	19.78	0.30	0.30	100.00	0.00	0.00	12
K17-426B	19.78	20.98	1.20	1.23	102.50	0.85	70.83	10
K17-426B	20.98	22.48	1.50	1.50	100.00	0.93	62.00	17
K17-426B	22.48	23.98	1.50	1.48	98.67	0.88	58.67	18
K17-426B	23.98	25.48	1.50	1.32	88.00	0.57	38.00	28
K17-426B	25.48	26.98	1.50	1.46	97.33	0.31	20.67	60
K17-426B	26.98	28.48	1.50	1.49	99.33	0.89	59.33	16
K17-426B	28.48	29.98	1.50	1.48	98.67	1.41	94.00	8
K17-426B	29.98	31.48	1.50	1.52	101.33	1.05	70.00	15
K17-426B	31.48	32.98	1.50	1.33	88.67	0.32	21.33	15
K17-426B	32.98	34.48	1.50	1.50	100.00	1.24	82.67	6
K17-426B	34.48	35.98	1.50	1.50	100.00	1.50	100.00	2
K17-426B	35.98	37.48	1.50	1.40	93.33	1.20	80.00	3
K17-426B	37.48	38.98	1.50	1.50	100.00	0.67	44.67	3
K17-426B	38.98	40.48	1.50	1.37	91.33	1.15	76.67	2
K17-427	5	8	3.00	2.20	73.33	0.51	17.00	22
K17-427	8	11	3.00	2.57	85.67	1.17	39.00	21
K17-427	11	14	3.00	2.93	97.67	1.82	60.67	22
K17-427	14	17	3.00	2.64	88.00	1.37	45.67	18
K17-427	17	20	3.00	2.66	88.67	1.25	41.67	21

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-427	20	23	3.00	2.37	79.00	0.93	31.00	20
K17-427	23	26	3.00	2.85	95.00	1.85	61.67	19
K17-427	26	29	3.00	2.86	95.33	1.59	53.00	20
K17-427	29	32	3.00	2.93	97.67	2.06	68.67	13
K17-427	32	35	3.00	2.55	85.00	0.99	33.00	45
K17-427	35	38	3.00	2.61	87.00	1.21	40.33	20
K17-427	38	41	3.00	2.78	92.67	1.50	50.00	23
K17-427	41	44	3.00	2.99	99.67	1.48	49.33	32
K17-427	44	47	3.00	2.81	93.67	2.02	67.33	14
K17-427	47	50	3.00	2.99	99.67	2.16	72.00	14
K17-427	50	53	3.00	2.26	75.33	1.42	47.33	18
K17-427	53	56	3.00	2.60	86.67	1.20	40.00	21
K17-427	56	59	3.00	2.88	96.00	1.14	38.00	30
K17-427	59	62	3.00	2.97	99.00	2.46	82.00	9
K17-427	62	65	3.00	2.64	88.00	1.18	39.33	27
K17-427	65	68	3.00	2.96	98.67	1.60	53.33	27
K17-427	68	71	3.00	2.97	99.00	2.07	69.00	13
K17-427	71	74	3.00	2.99	99.67	1.70	56.67	15
K17-427	74	77	3.00	2.87	95.67	2.05	68.33	13
K17-427	77	80	3.00	3.08	102.67	2.34	78.00	10
K17-427	80	83	3.00	3.02	100.67	2.70	90.00	9
K17-427	83	86	3.00	2.83	94.33	1.70	56.67	24
K17-427	86	89	3.00	2.78	92.67	1.25	41.67	23
K17-427	89	92	3.00	3.03	101.00	2.00	66.67	12
K17-427	92	95	3.00	2.78	92.67	0.89	29.67	25
K17-427	95	98	3.00	2.94	98.00	0.76	25.33	29
K17-427	98	101	3.00	2.96	98.67	1.09	36.33	14
K17-427	101	104	3.00	2.90	96.67	2.20	73.33	8
K17-427	104	107	3.00	2.87	95.67	1.82	60.67	14
K17-427	107	110	3.00	3.02	100.67	2.74	91.33	4
K17-427	110	113	3.00	2.94	98.00	2.09	69.67	8
K17-427	113	116	3.00	3.04	101.33	2.71	90.33	9
K17-427	116	119	3.00	2.92	97.33	2.89	96.33	5
K17-427	119	122	3.00	2.77	92.33	2.11	70.33	21
K17-427	122	125	3.00	2.82	94.00	2.52	84.00	8
K17-427	125	128	3.00	3.06	102.00	3.06	102.00	0
K17-427	128	131	3.00	2.96	98.67	2.87	95.67	2
K17-427	131	134	3.00	3.04	101.33	3.04	101.33	2
K17-427	134	137	3.00	2.87	95.67	2.14	71.33	19
K17-427	137	140	3.00	2.94	98.00	2.66	88.67	9
K17-427	140	143	3.00	2.96	98.67	2.79	93.00	5
K17-427	143	146	3.00	2.96	98.67	2.17	72.33	26
K17-427	146	149	3.00	2.92	97.33	2.60	86.67	8
K17-427	149	152	3.00	2.89	96.33	1.97	65.67	18
K17-428	10.5	12.12	1.62	1.62	100.00	1.11	68.52	6
K17-428	12.12	13.62	1.50	1.50	100.00	1.41	94.00	6
K17-428	13.62	15.12	1.50	1.50	100.00	1.20	80.00	6
K17-428	15.12	16.62	1.50	1.45	96.67	1.36	90.67	8

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-428	16.62	18.12	1.50	1.50	100.00	1.05	70.00	9
K17-428	18.12	19.62	1.50	1.50	100.00	1.38	92.00	8
K17-428	19.62	21.12	1.50	1.48	98.67	0.99	66.00	10
K17-428	21.12	22.62	1.50	1.50	100.00	1.50	100.00	4
K17-428	22.62	24.12	1.50	1.50	100.00	1.41	94.00	4
K17-428	24.12	25.62	1.50	1.50	100.00	1.50	100.00	5
K17-428	25.62	27.12	1.50	1.45	96.67	0.67	44.67	30
K17-428	27.12	27.82	0.70	0.38	54.29	0.00	0.00	28
K17-428	27.82	28.62	0.80	0.80	100.00	0.32	40.00	11
K17-428	28.62	30.12	1.50	1.50	100.00	1.13	75.33	11
K17-428	30.12	31.62	1.50	1.38	92.00	1.12	74.67	10
K17-428	31.62	33.12	1.50	1.49	99.33	1.27	84.67	7
K17-428	33.12	34.62	1.50	1.47	98.00	1.23	82.00	9
K17-428	34.62	36.12	1.50	1.22	81.33	0.61	40.67	17
K17-428	36.12	37.62	1.50	1.24	82.67	0.13	8.67	56
K17-428	37.62	39.12	1.50	1.33	88.67	0.39	26.00	30
K17-428	39.12	40.62	1.50	0.89	59.33	0.23	15.33	30
K17-429	5.9	7.58	1.68	1.65	98.21	0.86	51.19	14
K17-429	7.58	9.08	1.50	1.44	96.00	0.35	23.33	30
K17-429	9.08	10.58	1.50	1.50	100.00	0.41	27.33	60
K17-429	10.58	12.08	1.50	1.47	98.00	0.92	61.33	12
K17-429	12.08	13.58	1.50	1.56	104.00	0.29	19.33	19
K17-429	13.58	15.08	1.50	1.38	92.00	0.87	58.00	20
K17-429	15.08	16.58	1.50	1.23	82.00	0.68	45.33	15
K17-429	16.58	18.08	1.50	1.02	68.00	0.48	32.00	60
K17-429	18.08	19.58	1.50	0.71	47.33	0.00	0.00	60
K17-429	19.58	20.59	1.01	0.76	75.25	0.00	0.00	40
K17-429	20.59	21.08	0.49	0.49	100.00	0.49	100.00	2
K17-429	21.08	22.58	1.50	1.44	96.00	0.96	64.00	12
K17-429	22.58	23.63	1.05	1.05	100.00	1.05	100.00	5
K17-429	23.63	24.08	0.45	0.42	93.33	0.00	0.00	18
K17-429	24.08	25.58	1.50	1.39	92.67	0.52	34.67	60
K17-429	25.58	27.08	1.50	1.20	80.00	0.55	36.67	60
K17-429	27.08	28.58	1.50	1.52	101.33	1.44	96.00	4
K17-429	28.58	30.08	1.50	1.19	79.33	1.06	70.67	5
K17-429	30.08	31.58	1.50	1.52	101.33	1.01	67.33	12
K17-429	31.58	33.08	1.50	1.43	95.33	0.79	52.67	20
K17-429	33.08	34.73	1.65	1.22	73.94	0.25	15.15	66
K17-429	34.73	36.08	1.35	1.35	100.00	1.35	100.00	2
K17-430	59	62	3.00	2.92	97.33	1.26	42.00	24
K17-430	62	65	3.00	2.85	95.00	1.91	63.67	19
K17-430	65	68	3.00	2.82	94.00	2.20	73.33	21
K17-430	68	71	3.00	2.69	89.67	2.07	69.00	22
K17-430	71	74	3.00	2.80	93.33	2.47	82.33	19
K17-430	74	77	3.00	3.20	106.67	1.95	65.00	25
K17-430	77	80	3.00	2.56	85.33	1.57	52.33	25
K17-430	80	83	3.00	3.12	104.00	1.95	65.00	27
K17-430	83	86	3.00	3.16	105.33	2.89	96.33	12

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-430	86	89	3.00	2.58	86.00	1.93	64.33	16
K17-430	89	92	3.00	2.82	94.00	2.64	88.00	14
K17-430	92	95	3.00	2.83	94.33	2.53	84.33	11
K17-430	95	98	3.00	3.00	100.00	2.87	95.67	12
K17-430	98	101	3.00	2.90	96.67	2.50	83.33	15
K17-430	101	104	3.00	2.86	95.33	2.52	84.00	14
K17-430	104	107	3.00	2.96	98.67	2.65	88.33	11
K17-430	107	110	3.00	3.00	100.00	2.44	81.33	19
K17-430	110	111	1.00	1.00	100.00	0.87	87.00	6
K17-430	111	113	2.00	1.17	58.50	0.00	0.00	80
K17-430	113	116	3.00	1.36	45.33	0.11	3.67	21
K17-430	116	119	3.00	2.59	86.33	0.20	6.67	26
K17-430	119	120.7	1.70	1.60	94.12	1.20	70.59	29
K17-430	120.7	122	1.30	1.26	96.92	0.98	75.38	12
K17-430	122	125	3.00	3.02	100.67	2.75	91.67	7
K17-430	125	128	3.00	2.92	97.33	2.69	89.67	7
K17-430	128	131	3.00	2.96	98.67	2.73	91.00	7
K17-430	131	134	3.00	2.93	97.67	2.70	90.00	9
K17-430	134	137	3.00	3.00	100.00	2.40	80.00	18
K17-430	137	140	3.00	2.88	96.00	2.44	81.33	20
K17-430	140	143	3.00	3.00	100.00	2.28	76.00	24
K17-430	143	146	3.00	2.86	95.33	2.62	87.33	17
K17-430	146	149	3.00	3.00	100.00	2.76	92.00	6
K17-430	149	152	3.00	2.96	98.67	2.58	86.00	14
K17-430	152	155	3.00	2.93	97.67	2.55	85.00	12
K17-430	155	158	3.00	3.00	100.00	2.23	74.33	20
K17-430	158	161	3.00	3.00	100.00	2.65	88.33	16
K17-430	161	164	3.00	3.00	100.00	2.95	98.33	8
K17-430	164	166.7	2.70	2.57	95.19	2.37	87.78	10
K17-430	166.7	168.35	1.65	1.45	87.88	0.12	7.27	30
K17-430	168.35	170	1.65	1.44	87.27	1.38	83.64	7
K17-430	170	173	3.00	2.78	92.67	1.56	52.00	26
K17-430	173	176	3.00	3.10	103.33	2.18	72.67	27
K17-430	176	179	3.00	2.97	99.00	2.35	78.33	15
K17-430	179	182	3.00	2.91	97.00	2.25	75.00	19
K17-437	14	17	3.00	0.75	25.00	1.10	36.67	
K17-437	17	20	3.00	0.85	28.33	0.00	0.00	
K17-437	23	26	3.00	1.40	46.67	1.02	34.00	2
K17-437	26	27.95	1.95	2.50	128.21	0.00	0.00	78
K17-437	27.95	29	1.05	1.15	109.52	0.73	69.52	5
K17-437	29	32	3.00	3.00	100.00	2.85	95.00	25
K17-437	32	34.74	2.74	1.50	54.74	0.29	10.58	20
K17-437	34.74	37.17	2.43	1.85	76.13	0.65	26.75	20
K17-437	37.17	41.09	3.92	3.09	78.83	1.11	28.32	39
K17-437	41.09	44	2.91	3.10	106.53	0.49	16.84	39
K17-437	44	47	3.00	3.05	101.67	1.68	56.00	18
K17-437	47	50	3.00	3.00	100.00	0.11	3.67	29
K17-437	50	53	3.00	3.00	100.00	1.25	41.67	30

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-437	53	56	3.00	3.00	100.00	1.00	33.33	33
K17-437	56	59	3.00	2.90	96.67	0.33	11.00	37
K17-437	59	62	3.00	3.00	100.00	0.55	18.33	37
K17-437	62	65	3.00	2.95	98.33	0.78	26.00	36
K17-437	65	68	3.00	2.95	98.33	1.30	43.33	1
K17-437	68	71	3.00	3.20	106.67	0.77	25.67	35
K17-437	71	74	3.00	3.00	100.00	0.73	24.33	34
K17-437	74	77	3.00	3.00	100.00	1.62	54.00	39
K17-437	77	80	3.00	2.65	88.33	0.35	11.67	35
K17-437	80	83	3.00	2.60	86.67	1.30	43.33	38
K17-437	83	86	3.00	2.00	66.67	0.79	26.33	29
K17-437	86	89	3.00	1.90	63.33	0.12	4.00	33
K17-437	89	92	3.00	3.00	100.00	1.25	41.67	40
K17-437	92	95	3.00	1.50	50.00	0.13	4.33	20
K17-437	95	98	3.00	1.85	61.67	0.00	0.00	74
K17-437	98	101	3.00	1.95	65.00	0.35	11.67	34
K17-437	101	104	3.00	1.24	41.33	0.10	3.33	25
K17-437	104	107	3.00	1.85	61.67	0.00	0.00	74
K17-437	107	110	3.00	2.35	78.33	0.00	0.00	15
K17-437	110	113	3.00	0.85	28.33	0.00	0.00	15
K17-437	113	116	3.00	2.95	98.33	1.55	51.67	26
K17-437	116	119	3.00	3.20	106.67	1.15	38.33	30
K17-437	119	122	3.00	2.83	94.33	0.76	25.33	35
K17-437	122	125	3.00	3.10	103.33	0.40	13.33	24
K17-437	125	128	3.00	1.91	63.67	0.50	16.67	15
K17-437	128	131	3.00	3.05	101.67	2.35	78.33	25
K17-437	131	134	3.00	2.99	99.67	2.77	92.33	10
K17-437	134	137	3.00	3.00	100.00	2.30	76.67	18
K17-437	137	140	3.00	3.00	100.00	2.34	78.00	22
K17-437	140	143	3.00	2.87	95.67	2.09	69.67	14
K17-437	143	146	3.00	3.03	101.00	2.10	70.00	22
K17-437	146	149	3.00	3.07	102.33	2.06	68.67	25
K17-437	149	152	3.00	3.00	100.00	1.72	57.33	20
K17-438	5	8	3.00	1.70	56.67	0.35	11.67	36
K17-438	8	11	3.00	2.15	71.67	0.88	29.33	27
K17-438	11	14	3.00	1.50	50.00	0.33	11.00	30
K17-438	14	17	3.00	2.09	69.67	1.06	35.33	24
K17-438	17	20	3.00	2.85	95.00	2.17	72.33	19
K17-438	20	23	3.00	2.53	84.33	1.04	34.67	18
K17-438	23	26	3.00	2.34	78.00	1.30	43.33	14
K17-438	26	29	3.00	2.96	98.67	2.18	72.67	16
K17-438	29	32	3.00	2.51	83.67	1.00	33.33	25
K17-438	32	35	3.00	2.70	90.00	0.79	26.33	18
K17-438	35	38	3.00	1.74	58.00	0.52	17.33	22
K17-438	38	41	3.00	2.72	90.67	1.37	45.67	24
K17-438	41	41.8	0.80	0.75	93.75	0.29	36.25	15
K17-438	41.8	44	2.20	1.22	55.45	0.36	16.36	10
K17-438	44	46.4	2.40	1.64	68.33	0.54	22.50	21

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-438	46.4	47	0.60	0.40	66.67	0.00	0.00	10
K17-438	47	49.4	2.40	1.24	51.67	0.10	4.17	28
K17-438	49.4	50	0.60	0.81	135.00	0.12	20.00	8
K17-438	50	53	3.00	1.69	56.33	0.34	11.33	23
K17-438	53	54.5	1.50	0.66	44.00	0.00	0.00	14
K17-438	54.5	56	1.50	0.84	56.00	0.10	6.67	17
K17-438	56	57	1.00	0.56	56.00	0.00	0.00	16
K17-438	57	59	2.00	0.60	30.00	0.00	0.00	80
K17-438	59	62	3.00	0.78	26.00	0.00	0.00	30
K17-438	62	65	3.00	1.55	51.67	1.56	52.00	27
K17-438	65	68	3.00	2.64	88.00	0.27	9.00	92
K17-438	68	71	3.00	0.65	21.67	0.00	0.00	120
K17-438	71	74	3.00	1.07	35.67	0.00	0.00	120
K17-438	74	77	3.00	2.25	75.00	0.20	6.67	110
K17-438	77	80	3.00	2.00	66.67	0.27	9.00	40
K17-438	80	83	3.00	3.00	100.00	1.40	46.67	23
K17-438	83	86	3.00	1.00	33.33	0.24	8.00	25
K17-438	86	89	3.00	2.31	77.00	0.75	25.00	43
K17-438	89	92	3.00	0.75	25.00	0.00	0.00	18
K17-438	92	95	3.00	0.95	31.67	0.39	13.00	22
K17-438	95	98	3.00	0.35	11.67	0.00	0.00	10
K17-438	98	101	3.00	1.60	53.33	0.35	11.67	30
K17-438	101	104	3.00	2.30	76.67	0.00	0.00	30
K17-438	104	105.3	1.30	0.95	73.08	0.00	0.00	72
K17-438	105.3	106.5	1.20	0.60	50.00	0.10	8.33	19
K17-438	106.5	107	0.50	0.51	102.00	0.00	0.00	17
K17-438	107	108.8	1.80	1.14	63.33	0.00	0.00	42
K17-438	108.8	110	1.20	0.40	33.33	0.00	0.00	14
K17-438	110	110.8	0.80	0.68	85.00	0.00	0.00	22
K17-438	110.8	111.5	0.70	0.60	85.71	0.00	0.00	18
K17-438	111.5	113	1.50	0.83	55.33	0.00	0.00	32
K17-438	113	116	3.00	3.15	105.00	0.85	28.33	30
K17-438	116	119	3.00	2.74	91.33	0.81	27.00	24
K17-438	119	122	3.00	2.55	85.00	0.54	18.00	34
K17-438	122	125	3.00	3.15	105.00	0.00	0.00	70
K17-438	125	128	3.00	2.30	76.67	0.00	0.00	120
K17-438	128	131	3.00	2.95	98.33	0.00	0.00	120
K17-438	131	134	3.00	2.95	98.33	0.00	0.00	120
K17-438	134	137	3.00	2.50	83.33	0.00	0.00	21
K17-438	137	137.72	0.72	0.72	100.00	0.00	0.00	29
K17-438	137.72	140	2.28	2.30	100.88	0.94	41.23	15
K17-438	140	143	3.00	2.80	93.33	0.96	32.00	38
K17-438	143	146	3.00	2.30	76.67	0.00	0.00	120
K17-438	146	149	3.00	3.20	106.67	0.45	15.00	16
K17-438	149	155	6.00	2.34	39.00	0.35	5.83	25
K17-438	155	161	6.00	2.45	40.83	0.28	4.67	30
K17-438	161	164	3.00	1.20	40.00	0.00	0.00	23
K17-438	164	167	3.00	1.96	65.33	0.43	14.33	52

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-438	167	170	3.00	1.72	57.33	0.37	12.33	26
K17-438	170	173	3.00	1.60	53.33	0.33	11.00	54
K17-438	173	176	3.00	2.44	81.33	1.02	34.00	26
K17-438	176	179	3.00	2.67	89.00	1.30	43.33	33
K17-438	179	182	3.00	2.62	87.33	0.78	26.00	36
K17-438	182	185	3.00	2.32	77.33	0.63	21.00	23
K17-438	185	188	3.00	3.00	100.00	0.91	30.33	35
K17-438	188	191	3.00	2.64	88.00	0.59	19.67	37
K17-439	8	9.5	1.50	0.62	41.33	0.10	6.67	22
K17-439	9.5	12	2.50	1.51	60.40	1.13	45.20	23
K17-439	12	15	3.00	1.70	56.67	1.14	38.00	47
K17-439	15	18	3.00	1.61	53.67	0.66	22.00	39
K17-439	18	21	3.00	2.75	91.67	2.05	68.33	27
K17-439	21	24	3.00	2.64	88.00	2.10	70.00	22
K17-439	24	27	3.00	2.07	69.00	0.59	19.67	53
K17-439	27	30	3.00	2.51	83.67	1.73	57.67	35
K17-439	30	33	3.00	2.27	75.67	1.10	36.67	49
K17-439	33	36	3.00	2.30	76.67	1.51	50.33	33
K17-439	36	39	3.00	2.44	81.33	1.56	52.00	34
K17-439	39	42	3.00	2.80	93.33	2.53	84.33	16
K17-439	42	45	3.00	2.88	96.00	2.80	93.33	12
K17-439	45	48	3.00	2.81	93.67	2.74	91.33	16
K17-439	48	51	3.00	2.10	70.00	1.67	55.67	26
K17-439	51	54	3.00	2.34	78.00	1.68	56.00	29
K17-439	54	57	3.00	2.75	91.67	2.04	68.00	30
K17-439	57	60	3.00	1.96	65.33	1.20	40.00	37
K17-439	60	63	3.00	1.75	58.33	0.25	8.33	48
K17-439	63	66	3.00	1.42	47.33	0.34	11.33	53
K17-439	66	69	3.00	2.59	86.33	0.54	18.00	55
K17-439	69	72	3.00	2.63	87.67	1.73	57.67	28
K17-439	72	75	3.00	2.95	98.33	2.87	95.67	10
K17-439	75	78	3.00	2.86	95.33	2.77	92.33	7
K17-439	78	81	3.00	2.71	90.33	1.95	65.00	34
K17-439	81	84	3.00	2.68	89.33	1.08	36.00	53
K17-439	84	87	3.00	2.55	85.00	0.61	20.33	52
K17-439	87	90	3.00	2.31	77.00	0.67	22.33	55
K17-439	90	93	3.00	2.49	83.00	1.14	38.00	38
K17-439	93	96	3.00	2.93	97.67	1.32	44.00	48
K17-439	96	99	3.00	2.58	86.00	1.73	57.67	31
K17-439	99	102	3.00	2.69	89.67	2.17	72.33	21
K17-439	102	105	3.00	2.90	96.67	1.44	48.00	45
K17-439	105	108	3.00	2.43	81.00	1.38	46.00	41
K17-439	108	111	3.00	2.26	75.33	0.91	30.33	44
K17-439	111	114	3.00	2.10	70.00	0.72	24.00	27
K17-439	114	117	3.00	2.51	83.67	1.28	42.67	43
K17-439	117	120	3.00	2.87	95.67	1.38	46.00	21
K17-440	3.68	5	1.32	1.30	98.48	0.25	18.94	17
K17-440	5	8	3.00	1.76	58.67	0.50	16.67	33

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-440	8	11	3.00	2.90	96.67	2.90	96.67	27
K17-440	11	14	3.00	2.60	86.67	1.66	55.33	23
K17-440	14	17	3.00	2.60	86.67	1.04	34.67	28
K17-440	17	20	3.00	1.55	51.67	0.50	16.67	36
K17-440	20	23	3.00	0.80	26.67	0.50	16.67	7
K17-440	23	26	3.00	2.93	97.67	2.63	87.67	9
K17-440	26	29	3.00	2.98	99.33	2.05	68.33	21
K17-440	29	32	3.00	2.92	97.33	1.82	60.67	22
K17-440	32	35	3.00	2.90	96.67	1.86	62.00	23
K17-440	35	38	3.00	2.66	88.67	1.41	47.00	25
K17-440	38	41	3.00	2.97	99.00	2.23	74.33	15
K17-440	41	44	3.00	2.97	99.00	2.41	80.33	13
K17-440	44	47	3.00	3.04	101.33	0.95	31.67	23
K17-440	47	50	3.00	2.57	85.67	0.00	0.00	120
K17-440	50	53	3.00	2.16	72.00	0.17	5.67	120
K17-440	53	56	3.00	3.21	107.00	1.30	43.33	33
K17-440	56	59	3.00	2.82	94.00	1.41	47.00	21
K17-440	59	62	3.00	2.95	98.33	2.10	70.00	18
K17-440	62	65	3.00	3.04	101.33	1.46	48.67	29
K17-440	65	68	3.00	3.01	100.33	1.67	55.67	33
K17-440	68	71	3.00	2.94	98.00	2.55	85.00	9
K17-440	71	74	3.00	2.65	88.33	0.82	27.33	39
K17-440	74	77	3.00	3.00	100.00	1.15	38.33	40
K17-440	77	80	3.00	2.66	88.67	0.98	32.67	36
K17-440	80	83	3.00	2.97	99.00	1.21	40.33	37
K17-440	83	86	3.00	2.95	98.33	1.71	57.00	29
K17-440	86	89	3.00	2.50	83.33	0.54	18.00	50
K17-440	89	92	3.00	2.85	95.00	0.99	33.00	37
K17-440	92	95	3.00	2.99	99.67	1.93	64.33	29
K17-440	95	98	3.00	2.94	98.00	2.15	71.67	19
K17-440	98	101	3.00	3.10	103.33	1.72	57.33	32
K17-440	101	104	3.00	2.95	98.33	1.34	44.67	37
K17-440	104	107	3.00	2.96	98.67	1.62	54.00	30
K17-440	107	110	3.00	2.30	76.67	0.37	12.33	43
K17-440	110	113	3.00	2.49	83.00	0.31	10.33	64
K17-440	113	116	3.00	2.80	93.33	0.20	6.67	52
K17-440	116	119	3.00	2.79	93.00	0.61	20.33	45
K17-440	119	122	3.00	2.46	82.00	0.00	0.00	120
K17-440	122	125	3.00	2.86	95.33	0.67	22.33	41
K17-440	125	128	3.00	2.20	73.33	0.26	8.67	43
K17-440	128	131	3.00	3.00	100.00	0.87	29.00	37
K17-440	131	134	3.00	2.97	99.00	1.67	55.67	31
K17-440	134	137	3.00	2.87	95.67	1.22	40.67	38
K17-440	137	140	3.00	3.00	100.00	1.78	59.33	26
K17-440	140	143	3.00	2.80	93.33	0.42	14.00	40
K17-440	143	146	3.00	3.05	101.67	1.59	53.00	30
K17-440	146	149	3.00	3.03	101.00	2.12	70.67	18
K17-440	149	152	3.00	2.92	97.33	1.49	49.67	34

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-441	6.5	7.05	0.55	0.55	100.00	0.00	0.00	22
K17-441	7.05	8.55	1.50	1.02	68.00	0.13	8.67	41
K17-441	8.55	10.05	1.50	1.39	92.67	0.00	0.00	60
K17-441	10.05	11.55	1.50	1.03	68.67	0.00	0.00	60
K17-441	11.55	13.05	1.50	1.19	79.33	0.00	0.00	60
K17-441	13.05	14.55	1.50	1.50	100.00	0.39	26.00	60
K17-441	14.55	15.97	1.42	1.25	88.03	0.43	30.28	50
K17-441	15.97	17.47	1.50	1.10	73.33	0.33	22.00	44
K17-441	17.47	18.97	1.50	1.32	88.00	0.92	61.33	10
K17-441	18.97	20.47	1.50	1.26	84.00	0.59	39.33	15
K17-441	20.47	21.97	1.50	1.42	94.67	0.84	56.00	16
K17-441	21.97	23.47	1.50	1.50	100.00	1.34	89.33	11
K17-441	23.47	24.97	1.50	1.47	98.00	1.47	98.00	1
K17-441	24.97	26.47	1.50	1.44	96.00	1.16	77.33	3
K17-441	26.47	27.97	1.50	1.42	94.67	1.29	86.00	4
K17-441	27.97	29.39	1.42	1.12	78.87	0.40	28.17	45
K17-441	29.39	30.89	1.50	1.41	94.00	1.27	84.67	5
K17-441	30.89	32.39	1.50	1.39	92.67	0.29	19.33	18
K17-441	32.39	32.81	0.42	0.42	100.00	0.14	33.33	3
K17-441	32.81	33.89	1.08	0.26	24.07	0.00	0.00	44
K17-441	33.89	35.39	1.50	0.92	61.33	0.10	6.67	37
K17-441	35.39	36.89	1.50	1.26	84.00	0.24	16.00	51
K17-441	36.89	38.39	1.50	1.38	92.00	1.20	80.00	4
K17-441	38.39	39.89	1.50	1.41	94.00	0.96	64.00	7
K17-441	39.89	40.19	0.36	0.33	91.67	0.33	91.67	0
K17-442	4.81	5.48	0.67	0.67	100.00	0.11	16.42	8
K17-442	5.48	6.98	1.50	1.50	100.00	0.89	59.33	16
K17-442	6.98	8.48	1.50	1.42	94.67	0.12	8.00	60
K17-442	8.48	9.98	1.50	1.50	100.00	0.00	0.00	22
K17-442	9.98	11.48	1.50	1.33	88.67	0.00	0.00	60
K17-442	11.48	12.98	1.50	1.41	94.00	0.14	9.33	60
K17-442	12.98	14.48	1.50	1.01	67.33	0.12	8.00	21
K17-442	14.48	15.98	1.50	0.66	44.00	0.13	8.67	60
K17-442	15.98	17.48	1.50	0.44	29.33	0.10	6.67	60
K17-442	17.48	18.98	1.50	1.43	95.33	0.23	15.33	60
K17-442	18.98	20.48	1.50	1.48	98.67	1.06	70.67	10
K17-442	20.48	21.98	1.50	1.25	83.33	0.61	40.67	18
K17-442	21.98	23.48	1.50	1.10	73.33	0.12	8.00	60
K17-442	23.48	24.98	1.50	1.35	90.00	0.50	33.33	60
K17-442	24.98	25.98	1.00	0.98	98.00	0.85	85.00	3
K17-442	25.98	27.48	1.50	1.49	99.33	1.35	90.00	7
K17-442	27.48	27.98	0.50	0.42	84.00	0.30	60.00	1
K17-442	27.98	29.48	1.50	1.00	66.67	0.85	56.67	4
K17-442	29.48	30.98	1.50	1.30	86.67	1.08	72.00	3
K17-442	30.98	32.23	1.25	1.25	100.00	1.25	100.00	0
K17-442	32.23	32.48	0.25	0.25	100.00	0.13	52.00	10
K17-442	32.48	33.98	1.50	1.49	99.33	1.49	99.33	0
K17-442	33.98	35.48	1.50	1.50	100.00	1.50	100.00	1

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-442	35.48	36.98	1.50	1.48	98.67	1.27	84.67	2
K17-442	36.98	38.48	1.50	1.50	100.00	1.41	94.00	2
K17-442	38.48	39.98	1.50	1.42	94.67	1.42	94.67	1
K17-443	7.97	8.5	0.53	0.53	100.00	0.22	41.51	10
K17-443	8.5	10	1.50	1.40	93.33	0.23	15.33	25
K17-443	10	11.5	1.50	1.50	100.00	0.43	28.67	18
K17-443	11.5	13	1.50	1.50	100.00	0.72	48.00	22
K17-443	13	14.5	1.50	1.46	97.33	0.54	36.00	25
K17-443	14.5	16	1.50	1.50	100.00	0.14	9.33	60
K17-443	16	17.5	1.50	1.50	100.00	0.00	0.00	60
K17-443	17.5	19	1.50	1.41	94.00	0.11	7.33	60
K17-443	19	20.5	1.50	1.30	86.67	0.79	52.67	13
K17-443	20.5	22	1.50	1.10	73.33	0.31	20.67	60
K17-443	22	23.5	1.50	1.02	68.00	0.52	34.67	60
K17-443	23.5	25	1.50	1.06	70.67	0.61	40.67	60
K17-443	25	26.5	1.50	1.20	80.00	0.26	17.33	60
K17-443	26.5	28	1.50	1.25	83.33	0.58	38.67	60
K17-443	28	29.5	1.50	1.41	94.00	0.44	29.33	60
K17-443	29.5	31	1.50	1.28	85.33	1.23	82.00	3
K17-443	31	32.5	1.50	1.51	100.67	1.49	99.33	1
K17-443	32.5	34	1.50	1.24	82.67	0.82	54.67	4
K17-443	34	35.5	1.50	1.48	98.67	1.28	85.33	4
K17-443	35.5	37	1.50	1.47	98.00	1.37	91.33	6
K17-443	37	38.5	1.50	1.50	100.00	1.50	100.00	1
K17-444	13.5	13.97	0.47	0.47	100.00	0.00	0.00	8
K17-444	13.97	15.47	1.50	1.25	83.33	0.20	13.33	60
K17-444	15.47	16.97	1.50	1.24	82.67	0.00	0.00	60
K17-444	16.97	18.47	1.50	0.90	60.00	0.00	0.00	60
K17-444	18.47	19.97	1.50	0.90	60.00	0.00	0.00	60
K17-444	19.97	21.47	1.50	1.29	86.00	0.00	0.00	60
K17-444	21.47	22.97	1.50	1.50	100.00	1.50	100.00	3
K17-444	22.97	24.47	1.50	1.17	78.00	0.37	24.67	21
K17-444	24.47	25.97	1.50	1.34	89.33	1.27	84.67	3
K17-444	25.97	27.47	1.50	1.50	100.00	0.44	29.33	25
K17-444	27.47	28.02	0.55	0.55	100.00	0.47	85.45	2
K17-444	28.02	28.97	0.95	0.75	78.95	0.00	0.00	38
K17-444	28.97	30.47	1.50	1.50	100.00	0.57	38.00	18
K17-444	30.47	31.97	1.50	1.32	88.00	0.53	35.33	21
K17-444	31.97	33.47	1.50	1.47	98.00	1.47	98.00	4
K17-444	33.47	34.97	1.50	1.50	100.00	1.50	100.00	3
K17-444	34.97	36.47	1.50	1.52	101.33	1.39	92.67	5
K17-444	36.47	37.97	1.50	1.30	86.67	1.30	86.67	3
K17-444	37.97	39.47	1.50	1.32	88.00	1.00	66.67	8
K17-444	39.47	40.97	1.50	1.50	100.00	1.50	100.00	2
K17-444	40.97	42.47	1.50	1.44	96.00	1.27	84.67	6
K17-444	42.47	43.97	1.50	1.43	95.33	0.90	60.00	10
K17-445	10.96	11.12	0.16	0.16	100.00	0.00	0.00	7
K17-445	11.12	12.62	1.50	0.63	42.00	0.00	0.00	60

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-445	12.62	14.12	1.50	1.30	86.67	0.00	0.00	60
K17-445	14.12	15.62	1.50	0.80	53.33	0.00	0.00	60
K17-445	15.62	17.12	1.50	0.50	33.33	0.00	0.00	60
K17-445	17.12	18.62	1.50	0.33	22.00	0.00	0.00	60
K17-445	18.62	20.12	1.50	0.63	42.00	0.00	0.00	60
K17-445	20.12	21.62	1.50	1.34	89.33	0.82	54.67	10
K17-445	21.62	23.12	1.50	1.43	95.33	1.35	90.00	3
K17-445	23.12	24.62	1.50	1.21	80.67	0.49	32.67	60
K17-445	24.62	26.12	1.50	0.67	44.67	0.10	6.67	60
K17-445	26.12	27.62	1.50	1.05	70.00	0.32	21.33	60
K17-445	27.62	29.12	1.50	1.12	74.67	0.70	46.67	60
K17-445	29.12	30.62	1.50	1.52	101.33	1.52	101.33	1
K17-445	30.62	32.12	1.50	1.45	96.67	0.99	66.00	11
K17-445	32.12	33.62	1.50	1.11	74.00	0.91	60.67	2
K17-445	33.62	35.12	1.50	1.47	98.00	1.47	98.00	2
K17-445	35.12	36.62	1.50	1.48	98.67	1.48	98.67	3
K17-445	36.62	38.12	1.50	1.46	97.33	1.35	90.00	4
K17-445	38.12	39.62	1.50	1.43	95.33	1.41	94.00	2
K17-445	39.62	41.12	1.50	1.49	99.33	1.49	99.33	2
K17-446	6.5	8.16	1.66	0.66	39.76	0.00	0.00	67
K17-446	8.16	9.66	1.50	1.10	73.33	0.60	40.00	6
K17-446	9.66	11.16	1.50	1.36	90.67	0.99	66.00	7
K17-446	11.16	12.66	1.50	0.88	58.67	0.00	0.00	60
K17-446	12.66	14.16	1.50	0.80	53.33	0.11	7.33	60
K17-446	14.16	15.66	1.50	1.07	71.33	0.79	52.67	10
K17-446	15.66	17.16	1.50	1.11	74.00	0.12	8.00	60
K17-446	17.16	18.66	1.50	1.26	84.00	0.86	57.33	9
K17-446	18.66	20.16	1.50	1.29	86.00	0.80	53.33	13
K17-446	20.16	21.66	1.50	1.37	91.33	0.92	61.33	6
K17-446	21.66	23.16	1.50	1.50	100.00	1.22	81.33	6
K17-446	23.16	24.66	1.50	1.50	100.00	1.25	83.33	10
K17-446	24.66	26.16	1.50	1.44	96.00	0.46	30.67	60
K17-446	26.16	27.66	1.50	1.29	86.00	0.83	55.33	60
K17-446	27.66	29.16	1.50	1.50	100.00	0.95	63.33	14
K17-446	29.16	30.66	1.50	1.42	94.67	0.82	54.67	13
K17-446	30.66	32.16	1.50	1.41	94.00	0.82	54.67	60
K17-446	32.16	33.66	1.50	1.24	82.67	0.63	42.00	16
K17-446	33.66	35.16	1.50	1.43	95.33	1.25	83.33	5
K17-446	35.16	36.66	1.50	1.39	92.67	0.80	53.33	10
K17-446	36.66	38.16	1.50	1.50	100.00	1.31	87.33	6
K17-446	38.16	39.66	1.50	1.50	100.00	1.44	96.00	2
K17-447	8	11	3.00	1.24	41.33	0.31	10.33	28
K17-447	11	14	3.00	2.79	93.00	0.98	32.67	43
K17-447	14	17	3.00	2.64	88.00	0.68	22.67	30
K17-447	17	20	3.00	2.49	83.00	0.73	24.33	25
K17-447	20	23	3.00	2.55	85.00	0.31	10.33	31
K17-447	23	26	3.00	2.75	91.67	2.01	67.00	21
K17-447	26	29	3.00	3.35	111.67	1.92	64.00	29

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-447	29	32	3.00	2.69	89.67	0.77	25.67	30
K17-447	32	35	3.00	2.97	99.00	1.55	51.67	24
K17-447	35	38	3.00	2.99	99.67	2.70	90.00	12
K17-447	38	41	3.00	3.02	100.67	2.35	78.33	15
K17-447	41	44	3.00	2.88	96.00	2.39	79.67	8
K17-447	44	47	3.00	2.91	97.00	2.67	89.00	15
K17-447	47	50	3.00	3.02	100.67	2.57	85.67	13
K17-447	50	53	3.00	2.94	98.00	2.60	86.67	11
K17-447	53	56	3.00	2.99	99.67	2.41	80.33	17
K17-447	56	59	3.00	2.96	98.67	2.50	83.33	15
K17-447	59	62	3.00	2.69	89.67	1.33	44.33	38
K17-447	62	65	3.00	2.91	97.00	1.72	57.33	23
K17-447	65	68	3.00	2.97	99.00	2.80	93.33	11
K17-447	68	71	3.00	2.95	98.33	2.46	82.00	14
K17-447	71	74	3.00	3.00	100.00	2.35	78.33	18
K17-447	74	77	3.00	3.00	100.00	1.42	47.33	36
K17-447	77	80	3.00	2.82	94.00	1.95	65.00	19
K17-447	80	83	3.00	2.60	86.67	2.55	85.00	26
K17-447	83	86	3.00	3.00	100.00	2.87	95.67	14
K17-447	86	89	3.00	3.00	100.00	2.88	96.00	10
K17-447	89	92	3.00	2.99	99.67	2.24	74.67	17
K17-447	92	95	3.00	2.96	98.67	2.73	91.00	11
K17-447	95	98	3.00	3.00	100.00	2.33	77.67	19
K17-447	98	101	3.00	2.41	80.33	0.69	23.00	49
K17-447	101	104	3.00	2.94	98.00	0.43	14.33	75
K17-447	104	107	3.00	2.19	73.00	0.57	19.00	51
K17-447	107	110	3.00	2.75	91.67	1.07	35.67	53
K17-447	110	113	3.00	3.00	100.00	1.58	52.67	42
K17-447	113	116	3.00	2.95	98.33	0.63	21.00	54
K17-447	116	119	3.00	2.30	76.67	0.25	8.33	60
K17-447	119	122	3.00	2.60	86.67	0.63	21.00	54
K17-447	122	125	3.00	2.87	95.67	0.70	23.33	66
K17-447	125	128	3.00	3.00	100.00	1.76	58.67	33
K17-447	128	131	3.00	2.99	99.67	1.47	49.00	33
K17-447	131	134	3.00	2.97	99.00	0.93	31.00	49
K17-447	134	137	3.00	3.02	100.67	1.81	60.33	30
K17-447	137	140	3.00	2.91	97.00	1.36	45.33	49
K17-447	140	143	3.00	2.92	97.33	0.60	20.00	65
K17-447	143	146	3.00	2.50	83.33	0.95	31.67	51
K17-447	146	149	3.00	2.72	90.67	1.72	57.33	39
K17-447	149	152	3.00	2.99	99.67	2.60	86.67	16
K17-447	152	155	3.00	2.90	96.67	0.76	25.33	55
K17-447	155	158	3.00	2.88	96.00	1.74	58.00	41
K17-447	158	161	3.00	3.04	101.33	2.22	74.00	27
K17-447	161	164	3.00	2.80	93.33	2.13	71.00	29
K17-447	164	167	3.00	2.88	96.00	2.04	68.00	21
K17-447	167	170	3.00	2.42	80.67	0.73	24.33	49
K17-447	170	173	3.00	2.55	85.00	0.44	14.67	69

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-447	173	176	3.00	2.72	90.67	1.94	64.67	32
K17-447	176	179	3.00	1.46	48.67	0.90	30.00	21
K17-447	179	182	3.00	2.72	90.67	1.09	36.33	56
K17-447	182	185	3.00	2.92	97.33	1.13	37.67	75
K17-447	185	188	3.00	2.91	97.00	1.34	44.67	47
K17-447	188	191	3.00	2.76	92.00	2.47	82.33	17
K17-447	191	194	3.00	3.03	101.00	2.60	86.67	17
K17-447	194	197	3.00	3.00	100.00	2.45	81.67	19
K17-447	197	200	3.00	2.95	98.33	2.68	89.33	10
K17-447	200	203	3.00	3.05	101.67	3.01	100.33	1
K17-447	203	206	3.00	3.00	100.00	2.87	95.67	4
K17-447	206	209	3.00	2.99	99.67	2.90	96.67	6
K17-447	209	212	3.00	2.99	99.67	2.82	94.00	7
K17-447	212	215	3.00	2.96	98.67	2.64	88.00	10
K17-447	215	218	3.00	3.04	101.33	2.83	94.33	11
K17-447	218	221	3.00	2.95	98.33	2.51	83.67	14
K17-447	221	224	3.00	3.02	100.67	3.02	100.67	5
K17-447	224	227	3.00	2.98	99.33	2.90	96.67	9
K17-447	227	230	3.00	3.05	101.67	2.86	95.33	9
K17-447	230	233	3.00	2.95	98.33	2.83	94.33	7
K17-447	233	236	3.00	3.04	101.33	2.50	83.33	14
K17-447	236	239	3.00	2.96	98.67	2.61	87.00	12
K17-447	239	242	3.00	2.94	98.00	2.88	96.00	13
K17-447	242	245	3.00	3.04	101.33	2.83	94.33	10
K17-447	245	248	3.00	3.01	100.33	2.92	97.33	8
K17-447	248	251	3.00	2.98	99.33	2.98	99.33	3
K17-447	251	254	3.00	2.87	95.67	2.24	74.67	18
K17-447	254	257	3.00	3.02	100.67	2.34	78.00	17
K17-447	257	260	3.00	2.99	99.67	2.79	93.00	13
K17-447	260	263	3.00	3.00	100.00	2.70	90.00	14
K17-447	263	266	3.00	3.03	101.00	2.21	73.67	17
K17-447	266	269	3.00	3.00	100.00	2.55	85.00	20
K17-447	269	272	3.00	2.69	89.67	2.77	92.33	10
K17-447	272	275	3.00	2.96	98.67	2.87	95.67	11
K17-447	275	278	3.00	2.95	98.33	2.71	90.33	13
K17-447	278	281	3.00	3.04	101.33	2.49	83.00	22
K17-447	281	284	3.00	2.94	98.00	2.94	98.00	7
K17-447	284	287	3.00	2.96	98.67	2.71	90.33	11
K17-447	287	290	3.00	2.96	98.67	2.50	83.33	19
K17-447	290	293	3.00	3.06	102.00	2.63	87.67	12
K17-447	293	296	3.00	2.96	98.67	2.73	91.00	8
K17-447	296	299	3.00	3.04	101.33	2.98	99.33	6
K17-447	299	302	3.00	2.93	97.67	2.33	77.67	18
K17-447	302	305	3.00	2.90	96.67	2.08	69.33	27
K17-447	305	308	3.00	2.95	98.33	2.73	91.00	12
K17-447	308	311	3.00	2.83	94.33	2.11	70.33	17
K17-447	311	314	3.00	2.70	90.00	1.06	35.33	42
K17-447	314	317	3.00	2.98	99.33	1.12	37.33	55

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-447	317	320	3.00	3.00	100.00	2.30	76.67	17
K17-447	320	323	3.00	2.95	98.33	2.41	80.33	16
K17-447	323	326	3.00	3.05	101.67	2.38	79.33	29
K17-447	326	329	3.00	3.08	102.67	2.86	95.33	12
K17-447	329	332	3.00	2.92	97.33	1.48	49.33	33
K17-447	332	335	3.00	3.00	100.00	2.72	90.67	14
K17-447	335	338	3.00	3.09	103.00	2.28	76.00	17
K17-447	338	341	3.00	3.00	100.00	1.13	37.67	48
K17-447	341	344	3.00	2.91	97.00	1.72	57.33	25
K17-447	344	347	3.00	2.82	94.00	2.07	69.00	18
K17-447	347	350	3.00	3.00	100.00	1.12	37.33	48
K17-447	350	353	3.00	2.99	99.67	2.06	68.67	20
K17-447	353	356	3.00	2.99	99.67	2.85	95.00	9
K17-447	356	359	3.00	3.04	101.33	2.75	91.67	13
K17-447	359	362	3.00	2.97	99.00	2.97	99.00	7
K17-447	362	365	3.00	2.99	99.67	2.59	86.33	14
K17-447	365	368	3.00	2.98	99.33	2.69	89.67	4
K17-447	368	371	3.00	3.00	100.00	3.00	100.00	3
K17-447	371	374	3.00	2.98	99.33	2.26	75.33	23
K17-447	374	377	3.00	2.81	93.67	2.11	70.33	28
K17-447	377	380	3.00	2.98	99.33	2.95	98.33	9
K17-447	380	383	3.00	2.86	95.33	2.61	87.00	12
K17-447	383	386	3.00	3.10	103.33	3.04	101.33	10
K17-447	386	389	3.00	3.02	100.67	2.96	98.67	6
K17-447	389	392	3.00	2.97	99.00	2.67	89.00	12
K17-447	392	395	3.00	3.01	100.33	2.68	89.33	12
K17-447	395	398	3.00	2.95	98.33	2.21	73.67	31
K17-447	398	401	3.00	2.89	96.33	2.44	81.33	14
K17-447	401	404	3.00	3.05	101.67	2.41	80.33	23
K17-447	404	407	3.00	2.90	96.67	1.54	51.33	30
K17-447	407	410	3.00	3.02	100.67	2.76	92.00	15
K17-447	410	413	3.00	2.84	94.67	2.68	89.33	13
K17-447	413	416	3.00	3.02	100.67	2.88	96.00	10
K17-447	416	419	3.00	2.97	99.00	2.65	88.33	13
K17-447	419	422	3.00	2.95	98.33	2.01	67.00	33
K17-447	422	425	3.00	3.06	102.00	2.79	93.00	11
K17-447	425	428	3.00	2.95	98.33	2.40	80.00	14
K17-447	428	431	3.00	2.93	97.67	2.83	94.33	12
K17-447	431	434	3.00	2.99	99.67	2.83	94.33	7
K17-447	434	437	3.00	3.00	100.00	2.80	93.33	13
K17-447	437	440	3.00	2.94	98.00	2.78	92.67	11
K17-447	440	443	3.00	3.02	100.67	2.78	92.67	12
K17-447	443	446	3.00	2.91	97.00	2.65	88.33	9
K17-447	446	449	3.00	3.05	101.67	3.05	101.67	6
K17-447	449	452	3.00	2.85	95.00	2.85	95.00	11
K17-448	17	20	3.00	2.90	96.67	2.38	79.33	14
K17-448	20	23	3.00	2.88	96.00	2.52	84.00	21
K17-448	23	26	3.00	2.97	99.00	2.53	84.33	17

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-448	26	29	3.00	2.95	98.33	2.89	96.33	5
K17-448	29	32	3.00	2.99	99.67	1.25	41.67	32
K17-448	32	35	3.00	2.89	96.33	1.03	34.33	36
K17-448	35	38	3.00	2.62	87.33	0.80	26.67	41
K17-448	38	41	3.00	2.45	81.67	0.55	18.33	39
K17-448	41	44	3.00	2.48	82.67	0.80	26.67	39
K17-448	44	47	3.00	2.73	91.00	0.71	23.67	53
K17-448	47	50	3.00	2.50	83.33	0.61	20.33	44
K17-448	50	53	3.00	2.84	94.67	0.68	22.67	43
K17-448	53	56	3.00	2.91	97.00	1.30	43.33	28
K17-448	56	59	3.00	1.98	66.00	0.96	32.00	31
K17-448	59	62	3.00	2.54	84.67	0.47	15.67	55
K17-448	62	65	3.00	2.46	82.00	0.19	6.33	47
K17-448	65	68	3.00	1.38	46.00	0.23	7.67	47
K17-448	68	71	3.00	1.95	65.00	0.38	12.67	49
K17-448	71	74	3.00	2.84	94.67	1.67	55.67	46
K17-448	74	77	3.00	2.36	78.67	0.40	13.33	71
K17-448	77	80	3.00	1.89	63.00	0.17	5.67	59
K17-448	80	83	3.00	2.81	93.67	0.93	31.00	39
K17-448	83	86	3.00	2.75	91.67	0.52	17.33	51
K17-448	86	89	3.00	2.43	81.00	1.11	37.00	51
K17-448	89	92	3.00	2.89	96.33	1.61	53.67	37
K17-448	92	95	3.00	2.86	95.33	1.88	62.67	45
K17-448	95	98	3.00	1.95	65.00	0.59	19.67	57
K17-448	98	101	3.00	3.05	101.67	2.54	84.67	21
K17-448	101	104	3.00	2.95	98.33	2.33	77.67	25
K17-448	104	107	3.00	2.96	98.67	2.71	90.33	13
K17-448	107	110	3.00	2.98	99.33	2.93	97.67	8
K17-448	110	113	3.00	3.02	100.67	2.97	99.00	12
K17-448	113	116	3.00	2.91	97.00	2.91	97.00	10
K17-448	116	119	3.00	3.02	100.67	3.02	100.67	7
K17-448	119	122	3.00	2.96	98.67	2.96	98.67	1
K17-448	122	125	3.00	3.02	100.67	2.95	98.33	10
K17-448	125	128	3.00	2.99	99.67	2.73	91.00	9
K17-448	128	131	3.00	3.00	100.00	2.94	98.00	4
K17-448	131	134	3.00	2.94	98.00	2.94	98.00	2
K17-448	134	137	3.00	3.02	100.67	2.98	99.33	7
K17-448	137	140	3.00	2.95	98.33	2.92	97.33	6
K17-448	140	143	3.00	2.93	97.67	2.85	95.00	8
K17-448	143	146	3.00	3.00	100.00	2.82	94.00	13
K17-448	146	149	3.00	2.93	97.67	2.84	94.67	8
K17-448	149	152	3.00	2.99	99.67	2.76	92.00	8
K17-448	152	155	3.00	2.93	97.67	2.75	91.67	11
K17-448	155	158	3.00	3.01	100.33	3.01	100.33	8
K17-448	158	161	3.00	2.94	98.00	2.75	91.67	13
K17-448	161	164	3.00	2.87	95.67	2.36	78.67	22
K17-448	164	167	3.00	2.96	98.67	2.93	97.67	9
K17-448	167	170	3.00	2.97	99.00	2.79	93.00	13

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-448	170	173	3.00	2.95	98.33	2.51	83.67	19
K17-448	173	176	3.00	2.79	93.00	2.52	84.00	16
K17-448	176	179	3.00	2.89	96.33	2.33	77.67	25
K17-448	179	182	3.00	2.80	93.33	2.54	84.67	17
K17-448	182	185	3.00	2.72	90.67	2.42	80.67	19
K17-448	185	188	3.00	2.77	92.33	2.40	80.00	18
K17-448	188	191	3.00	2.97	99.00	2.57	85.67	15
K17-448	191	194	3.00	2.88	96.00	2.52	84.00	18
K17-448	194	197	3.00	2.98	99.33	2.66	88.67	21
K17-448	197	200	3.00	2.97	99.00	2.74	91.33	10
K17-448	200	203	3.00	3.00	100.00	2.87	95.67	10
K17-448	203	206	3.00	2.94	98.00	2.67	89.00	13
K17-448	206	209	3.00	3.02	100.67	2.74	91.33	15
K17-448	209	212	3.00	2.99	99.67	2.71	90.33	13
K17-448	212	215	3.00	2.69	89.67	2.44	81.33	17
K17-448	215	218	3.00	2.94	98.00	2.68	89.33	11
K17-448	218	221	3.00	2.97	99.00	2.14	71.33	26
K17-448	221	224	3.00	2.90	96.67	2.90	96.67	13
K17-448	224	227	3.00	2.95	98.33	2.85	95.00	14
K17-448	227	230	3.00	3.09	103.00	2.72	90.67	18
K17-448	230	233	3.00	2.99	99.67	2.46	82.00	18
K17-448	233	236	3.00	2.87	95.67	2.66	88.67	14
K17-448	236	239	3.00	3.02	100.67	2.74	91.33	15
K17-448	239	242	3.00	2.89	96.33	2.76	92.00	11
K17-448	242	245	3.00	2.67	89.00	2.05	68.33	24
K17-448	245	248	3.00	2.73	91.00	2.37	79.00	24
K17-448	248	251	3.00	2.86	95.33	2.84	94.67	11
K17-448	251	254	3.00	2.99	99.67	2.65	88.33	15
K17-448	254	257	3.00	2.93	97.67	2.37	79.00	20
K17-448	257	260	3.00	2.99	99.67	2.36	78.67	16
K17-448	260	263	3.00	2.96	98.67	2.64	88.00	14
K17-448	263	266	3.00	2.93	97.67	2.66	88.67	19
K17-448	266	269	3.00	2.94	98.00	2.73	91.00	17
K17-448	269	272	3.00	3.00	100.00	2.86	95.33	11
K17-448	272	275	3.00	2.89	96.33	2.72	90.67	16
K17-448	275	278	3.00	2.84	94.67	2.45	81.67	19
K17-448	278	281	3.00	2.87	95.67	1.89	63.00	29
K17-448	281	284	3.00	2.99	99.67	2.82	94.00	10
K17-448	284	287	3.00	3.01	100.33	2.96	98.67	14
K17-448	287	290	3.00	2.90	96.67	2.65	88.33	18
K17-448	290	293	3.00	2.83	94.33	1.97	65.67	28
K17-448	293	296	3.00	2.94	98.00	2.82	94.00	10
K17-448	296	299	3.00	2.99	99.67	2.85	95.00	13
K17-448	299	302	3.00	3.02	100.67	2.85	95.00	10
K17-448	302	305	3.00	2.93	97.67	2.65	88.33	11
K17-448	305	308	3.00	2.95	98.33	2.79	93.00	16
K17-448	308	311	3.00	2.95	98.33	2.85	95.00	10
K17-448	311	314	3.00	2.97	99.00	2.80	93.33	10

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-448	314	317	3.00	3.09	103.00	2.61	87.00	13
K17-448	317	320	3.00	2.91	97.00	2.74	91.33	13
K17-448	320	323	3.00	2.98	99.33	2.68	89.33	13
K17-448	323	326	3.00	2.57	85.67	1.47	49.00	50
K17-448	326	329	3.00	2.82	94.00	2.55	85.00	18
K17-448	329	332	3.00	2.83	94.33	1.45	48.33	41
K17-448	332	335	3.00	2.98	99.33	2.70	90.00	13
K17-448	335	338	3.00	3.00	100.00	2.88	96.00	10
K17-448	338	341	3.00	2.90	96.67	2.53	84.33	16
K17-448	341	344	3.00	2.91	97.00	2.77	92.33	15
K17-448	344	347	3.00	2.95	98.33	2.20	73.33	12
K17-448	347	350	3.00	2.98	99.33	2.73	91.00	17
K17-448	350	353	3.00	2.96	98.67	2.67	89.00	13
K17-448	353	356	3.00	2.97	99.00	2.70	90.00	16
K17-448	356	359	3.00	2.84	94.67	2.12	70.67	28
K17-448	359	362	3.00	2.91	97.00	1.42	47.33	79
K17-448	362	365	3.00	2.95	98.33	2.48	82.67	21
K17-448	365	368	3.00	2.89	96.33	2.30	76.67	24
K17-448	368	371	3.00	2.93	97.67	2.53	84.33	25
K17-448	371	374	3.00	2.94	98.00	2.00	66.67	31
K17-448	374	377	3.00	2.69	89.67	2.14	71.33	37
K17-448	377	380	3.00	2.99	99.67	1.71	57.00	39
K17-448	380	383	3.00	2.79	93.00	2.21	73.67	27
K17-448	383	386	3.00	2.45	81.67	0.71	23.67	56
K17-448	386	389	3.00	2.93	97.67	1.59	53.00	45
K17-448	389	392	3.00	2.86	95.33	1.66	55.33	43
K17-448	392	395	3.00	2.90	96.67	1.37	45.67	46
K17-448	395	398	3.00	2.83	94.33	1.46	48.67	43
K17-448	398	401	3.00	2.93	97.67	2.24	74.67	26
K17-448	401	404	3.00	2.96	98.67	2.35	78.33	21
K17-448	404	407	3.00	2.86	95.33	2.39	79.67	19
K17-448	407	410	3.00	2.95	98.33	1.48	49.33	42
K17-448	410	413	3.00	2.96	98.67	2.47	82.33	26
K17-448	413	416	3.00	2.95	98.33	2.18	72.67	26
K17-448	416	419	3.00	2.91	97.00	2.63	87.67	16
K17-448	419	422	3.00	2.91	97.00	2.61	87.00	14
K17-448	422	425	3.00	2.96	98.67	2.10	70.00	25
K17-448	425	428	3.00	2.95	98.33	1.68	56.00	48
K17-448	428	431	3.00	3.02	100.67	2.83	94.33	11
K17-448	431	434	3.00	2.84	94.67	2.53	84.33	17
K17-448	434	437	3.00	2.96	98.67	2.35	78.33	24
K17-448	437	440	3.00	2.93	97.67	2.84	94.67	14
K17-448	440	443	3.00	2.92	97.33	2.81	93.67	20
K17-448	443	446	3.00	2.91	97.00	2.60	86.67	23
K17-448	446	449	3.00	2.97	99.00	2.43	81.00	37
K17-448	449	452	3.00	2.72	90.67	2.43	81.00	37
K17-448	452	455	3.00	3.03	101.00	2.76	92.00	24
K17-448	455	458	3.00	2.97	99.00	2.38	79.33	20

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-448	458	461	3.00	2.94	98.00	2.60	86.67	20
K17-448	461	464	3.00	2.93	97.67	2.77	92.33	15
K17-448	464	467	3.00	2.87	95.67	2.57	85.67	22
K17-448	467	470	3.00	2.76	92.00	1.59	53.00	43
K17-448	470	473	3.00	2.87	95.67	2.12	70.67	25
K17-448	473	476	3.00	2.97	99.00	2.81	93.67	13
K17-448	476	479	3.00	2.98	99.33	2.91	97.00	13
K17-448	479	482	3.00	2.98	99.33	2.69	89.67	19
K17-448	482	485	3.00	3.00	100.00	2.84	94.67	8
K17-448	485	488	3.00	2.95	98.33	2.79	93.00	12
K17-448	488	491	3.00	2.91	97.00	2.47	82.33	12
K17-448	491	494	3.00	2.91	97.00	2.66	88.67	19
K17-448	494	497	3.00	2.92	97.33	2.55	85.00	39
K17-448	497	500	3.00	2.70	90.00	1.53	51.00	61
K17-448	500	503	3.00	2.81	93.67	1.59	53.00	40
K17-448	503	506	3.00	2.26	75.33	1.13	37.67	39
K17-448	506	509	3.00	2.93	97.67	2.06	68.67	25
K17-448	509	512	3.00	2.72	90.67	1.51	50.33	45
K17-448	512	515	3.00	2.76	92.00	1.64	54.67	40
K17-448	515	518	3.00	2.99	99.67	2.79	93.00	14
K17-448	518	521	3.00	2.93	97.67	2.77	92.33	17
K17-448	521	524	3.00	2.66	88.67	2.31	77.00	20
K17-448	524	527	3.00	3.08	102.67	2.63	87.67	24
K17-448	527	530	3.00	3.03	101.00	3.03	101.00	6
K17-448	530	533	3.00	2.86	95.33	2.51	83.67	21
K17-448	533	536	3.00	2.96	98.67	2.08	69.33	32
K17-448	536	539	3.00	3.00	100.00	2.76	92.00	21
K17-448	539	542	3.00	3.04	101.33	3.04	101.33	5
K17-448	542	545	3.00	2.99	99.67	2.91	97.00	7
K17-448	545	548	3.00	2.96	98.67	2.69	89.67	12
K17-448	548	551	3.00	3.02	100.67	2.64	88.00	24
K17-448	551	554	3.00	2.90	96.67	2.11	70.33	46
K17-448	554	557	3.00	3.01	100.33	2.85	95.00	5
K17-448	557	560	3.00	2.96	98.67	2.50	83.33	13
K17-448	560	563	3.00	2.99	99.67	2.99	99.67	6
K17-448	563	566	3.00	2.95	98.33	2.95	98.33	6
K17-448	566	569	3.00	3.00	100.00	2.54	84.67	36
K17-448	569	572	3.00	2.88	96.00	2.60	86.67	19
K17-448	572	575	3.00	3.07	102.33	2.86	95.33	10
K17-448	575	578	3.00	2.98	99.33	2.89	96.33	8
K17-448	578	581	3.00	3.00	100.00	2.69	89.67	14
K17-448	581	584	3.00	2.98	99.33	2.98	99.33	0
K17-448	584	587	3.00	2.82	94.00	2.03	67.67	43
K17-448	587	590	3.00	2.99	99.67	2.67	89.00	16
K17-448	590	593	3.00	2.93	97.67	2.70	90.00	14
K17-448	593	596	3.00	2.97	99.00	2.90	96.67	4
K17-448	596	599	3.00	3.00	100.00	2.91	97.00	2
K17-448	599	602	3.00	2.91	97.00	2.74	91.33	19

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-448	602	605	3.00	3.02	100.67	2.95	98.33	5
K17-448	605	608	3.00	2.97	99.00	2.65	88.33	21
K17-448	608	611	3.00	2.91	97.00	2.43	81.00	16
K17-448	611	614	3.00	3.01	100.33	2.87	95.67	13
K17-448	614	617	3.00	2.97	99.00	2.78	92.67	15
K17-448	617	620	3.00	2.99	99.67	2.93	97.67	6
K17-448	620	623	3.00	2.98	99.33	2.89	96.33	4
K17-448	623	626	3.00	2.99	99.67	2.66	88.67	6
K17-448	626	629	3.00	2.98	99.33	2.98	99.33	4
K17-448	629	632	3.00	2.97	99.00	2.90	96.67	4
K17-448	632	635	3.00	3.01	100.33	2.88	96.00	7
K17-448	635	638	3.00	2.99	99.67	2.71	90.33	12
K17-448	638	641	3.00	3.05	101.67	2.48	82.67	26
K17-448	641	644	3.00	2.97	99.00	2.38	79.33	24
K17-448	644	647	3.00	2.57	85.67	0.78	26.00	83
K17-448	647	650	3.00	2.84	94.67	1.30	43.33	61
K17-448	650	653	3.00	2.95	98.33	1.75	58.33	49
K17-448	653	656	3.00	2.93	97.67	2.65	88.33	11
K17-448	656	659	3.00	2.48	82.67	1.36	45.33	50
K17-448	659	662	3.00	2.55	85.00	1.80	60.00	39
K17-448	662	665	3.00	2.97	99.00	2.26	75.33	32
K17-448	665	668	3.00	2.94	98.00	1.67	55.67	49
K17-448	668	671	3.00	2.31	77.00	0.64	21.33	80
K17-448	671	674	3.00	2.19	73.00	0.49	16.33	72
K17-448	674	677	3.00	2.98	99.33	2.46	82.00	23
K17-448	677	680	3.00	2.87	95.67	1.88	62.67	31
K17-448	680	683	3.00	2.90	96.67	2.66	88.67	15
K17-448	683	686	3.00	2.84	94.67	1.38	46.00	43
K17-448	686	689	3.00	2.85	95.00	2.31	77.00	28
K17-448	689	692	3.00	2.53	84.33	1.82	60.67	35
K17-448	692	695	3.00	3.01	100.33	2.68	89.33	15
K17-448	695	698	3.00	3.03	101.00	2.15	71.67	29
K17-448	698	701	3.00	2.92	97.33	1.65	55.00	38
K17-448	701	704	3.00	2.89	96.33	2.89	96.33	2
K17-448	704	707	3.00	3.05	101.67	3.03	101.00	5
K17-448	707	710	3.00	2.95	98.33	2.24	74.67	29
K17-448	710	713	3.00	3.02	100.67	2.70	90.00	17
K17-448	713	716	3.00	2.88	96.00	1.93	64.33	35
K17-448	716	719	3.00	2.94	98.00	1.93	64.33	38
K17-448	719	722	3.00	2.90	96.67	2.83	94.33	8
K17-448	722	725	3.00	2.94	98.00	2.72	90.67	5
K17-448	725	728	3.00	2.98	99.33	2.35	78.33	19
K17-448	728	731	3.00	2.95	98.33	2.71	90.33	6
K17-448	731	734	3.00	2.95	98.33	2.59	86.33	14
K17-448	734	737	3.00	3.00	100.00	2.57	85.67	10
K17-448	737	740	3.00	2.80	93.33	2.52	84.00	11
K17-448	740	743	3.00	3.00	100.00	2.77	92.33	13
K17-448	743	746	3.00	2.88	96.00	2.42	80.67	15

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-448	746	749	3.00	2.90	96.67	2.05	68.33	25
K17-448	749	752	3.00	3.01	100.33	2.88	96.00	11
K17-448	752	755	3.00	2.96	98.67	2.88	96.00	10
K17-448	755	758	3.00	2.94	98.00	2.56	85.33	14
K17-448	758	761	3.00	2.80	93.33	2.00	66.67	46
K17-448	761	764	3.00	3.00	100.00	2.79	93.00	7
K17-448	764	767	3.00	2.95	98.33	2.76	92.00	13
K17-448	767	770	3.00	2.94	98.00	2.90	96.67	7
K17-448	770	773	3.00	3.02	100.67	2.87	95.67	12
K17-448	773	776	3.00	2.80	93.33	2.51	83.67	15
K17-448	776	779	3.00	2.97	99.00	2.74	91.33	17
K17-448	779	782	3.00	3.04	101.33	2.78	92.67	16
K17-448	782	785	3.00	2.95	98.33	2.63	87.67	14
K17-448	785	788	3.00	2.93	97.67	2.58	86.00	11
K17-448	788	791	3.00	3.03	101.00	2.51	83.67	24
K17-448	791	794	3.00	2.90	96.67	2.70	90.00	10
K17-448	794	797	3.00	2.66	88.67	1.74	58.00	43
K17-448	797	800	3.00	2.85	95.00	2.49	83.00	18
K17-448	800	803	3.00	2.89	96.33	2.60	86.67	8
K17-448	803	806	3.00	3.05	101.67	2.35	78.33	13
K17-448	806	809	3.00	2.50	83.33	2.00	66.67	28
K17-448	809	812	3.00	2.92	97.33	2.92	97.33	28
K17-448	812	815	3.00	2.98	99.33	2.68	89.33	10
K17-448	815	818	3.00	2.88	96.00	2.55	85.00	12
K17-448	818	821	3.00	3.08	102.67	2.92	97.33	14
K17-448	821	824	3.00	2.88	96.00	2.63	87.67	9
K17-448	824	827	3.00	2.95	98.33	2.71	90.33	12
K17-448	827	830	3.00	3.06	102.00	2.75	91.67	18
K17-448	830	833	3.00	3.00	100.00	2.63	87.67	11
K17-448	833	836	3.00	2.90	96.67	2.63	87.67	13
K17-448	836	839	3.00	3.12	104.00	2.72	90.67	11
K17-448	839	842	3.00	2.89	96.33	2.60	86.67	9
K17-448	842	845	3.00	2.99	99.67	2.85	95.00	14
K17-448	845	848	3.00	2.99	99.67	2.40	80.00	16
K17-448	848	851	3.00	2.94	98.00	2.38	79.33	24
K17-448	851	854	3.00	2.86	95.33	2.48	82.67	19
K17-448	854	857	3.00	2.97	99.00	2.45	81.67	21
K17-448	857	860	3.00	3.02	100.67	2.80	93.33	10
K17-448	860	863	3.00	2.91	97.00	2.59	86.33	27
K17-448	863	866	3.00	2.96	98.67	2.43	81.00	17
K17-448	866	869	3.00	2.92	97.33	2.78	92.67	17
K17-448	869	872	3.00	2.97	99.00	2.68	89.33	14
K17-448	872	875	3.00	2.98	99.33	2.82	94.00	5
K17-448	875	878	3.00	3.00	100.00	2.84	94.67	19
K17-448	878	881	3.00	2.97	99.00	2.83	94.33	12
K17-448	881	884	3.00	3.00	100.00	2.57	85.67	14
K17-448	884	887	3.00	3.01	100.33	2.80	93.33	14
K17-448	887	890	3.00	2.97	99.00	2.43	81.00	17

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-448	890	893	3.00	2.94	98.00	2.37	79.00	22
K17-448	893	896	3.00	3.08	102.67	2.85	95.00	12
K17-448	896	899	3.00	2.83	94.33	2.61	87.00	15
K17-448	899	902	3.00	2.82	94.00	1.97	65.67	22
K17-448	902	905	3.00	2.83	94.33	2.72	90.67	9
K17-448	905	908	3.00	3.01	100.33	3.01	100.33	7
K17-448	908	911	3.00	3.08	102.67	2.82	94.00	17
K17-448	911	914	3.00	3.00	100.00	2.77	92.33	16
K17-448	914	917	3.00	2.88	96.00	2.71	90.33	9
K17-448	917	920	3.00	2.95	98.33	2.37	79.00	22
K17-448	920	923	3.00	2.97	99.00	2.27	75.67	25
K17-448	923	926	3.00	2.86	95.33	2.38	79.33	23
K17-448	926	929	3.00	2.88	96.00	2.55	85.00	26
K17-448	929	932	3.00	2.76	92.00	2.18	72.67	20
K17-448	932	935	3.00	2.80	93.33	0.84	28.00	35
K17-448	935	938	3.00	2.73	91.00	2.53	84.33	12
K17-448	938	941	3.00	2.99	99.67	2.62	87.33	14
K17-448	941	944	3.00	2.85	95.00	2.41	80.33	15
K17-448	944	947	3.00	2.93	97.67	2.56	85.33	12
K17-448	947	950	3.00	2.88	96.00	2.31	77.00	16
K17-448	950	953	3.00	3.02	100.67	2.14	71.33	15
K17-448	953	956	3.00	2.80	93.33	2.45	81.67	10
K17-448	956	959	3.00	2.85	95.00	2.29	76.33	22
K17-448	959	962	3.00	2.73	91.00	1.56	52.00	38
K17-448	962	965	3.00	2.56	85.33	1.12	37.33	43
K17-448	965	968	3.00	2.91	97.00	1.45	48.33	37
K17-448	968	971	3.00	2.52	84.00	2.39	79.67	12
K17-448	971	974	3.00	2.97	99.00	2.91	97.00	7
K17-448	974	977	3.00	2.91	97.00	2.46	82.00	10
K17-448	977	980	3.00	3.00	100.00	2.93	97.67	9
K17-448	980	983	3.00	3.00	100.00	2.79	93.00	7
K17-448	983	986	3.00	3.01	100.33	2.76	92.00	10
K17-448	986	989	3.00	2.99	99.67	2.82	94.00	7
K17-448	989	992	3.00	2.99	99.67	2.87	95.67	5
K17-448	992	995	3.00	3.04	101.33	3.01	100.33	4
K17-448	995	998	3.00	3.00	100.00	2.25	75.00	26
K17-448	998	1001	3.00	3.05	101.67	2.91	97.00	10
K17-448	1001	1004	3.00	2.87	95.67	2.71	90.33	9
K17-448	1004	1007	3.00	3.00	100.00	2.93	97.67	3
K17-448	1007	1010	3.00	2.95	98.33	2.81	93.67	10
K17-448	1010	1013	3.00	3.00	100.00	3.00	100.00	1
K17-448	1013	1016	3.00	2.98	99.33	2.93	97.67	3
K17-448	1016	1017	1.00	1.19	119.00	1.19	119.00	0
K17-449	8	11	3.00	2.67	89.00	1.91	63.67	23
K17-449	11	14	3.00	3.05	101.67	2.32	77.33	32
K17-449	14	17	3.00	2.92	97.33	2.49	83.00	24
K17-449	17	20	3.00	2.65	88.33	1.07	35.67	70
K17-449	20	23	3.00	2.50	83.33	1.73	57.67	41

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-449	23	26	3.00	2.85	95.00	2.08	69.33	32
K17-449	26	29	3.00	1.94	64.67	0.70	23.33	60
K17-449	29	32	3.00	1.79	59.67	0.63	21.00	41
K17-449	32	35	3.00	2.51	83.67	1.94	64.67	30
K17-449	35	38	3.00	3.03	101.00	2.65	88.33	26
K17-449	38	41	3.00	3.02	100.67	2.58	86.00	20
K17-449	41	44	3.00	2.86	95.33	1.91	63.67	37
K17-449	44	47	3.00	2.92	97.33	2.62	87.33	15
K17-449	47	50	3.00	3.04	101.33	2.76	92.00	14
K17-449	50	53	3.00	2.97	99.00	2.97	99.00	4
K17-449	53	56	3.00	2.98	99.33	2.91	97.00	13
K17-449	56	59	3.00	2.94	98.00	2.74	91.33	10
K17-449	59	62	3.00	2.68	89.33	2.57	85.67	11
K17-449	62	65	3.00	3.07	102.33	2.55	85.00	16
K17-449	65	68	3.00	3.07	102.33	2.64	88.00	18
K17-449	68	71	3.00	2.98	99.33	2.75	91.67	10
K17-449	71	74	3.00	3.07	102.33	2.80	93.33	8
K17-449	74	77	3.00	2.91	97.00	2.70	90.00	7
K17-449	77	80	3.00	2.97	99.00	2.92	97.33	8
K17-449	80	83	3.00	3.02	100.67	2.17	72.33	30
K17-449	83	86	3.00	2.99	99.67	2.79	93.00	9
K17-449	86	89	3.00	2.91	97.00	2.88	96.00	3
K17-449	89	92	3.00	3.04	101.33	2.92	97.33	7
K17-449	92	95	3.00	2.90	96.67	2.80	93.33	9
K17-449	95	98	3.00	3.03	101.00	2.98	99.33	7
K17-449	98	101	3.00	2.95	98.33	2.49	83.00	12
K17-449	101	104	3.00	3.02	100.67	2.86	95.33	8
K17-449	104	107	3.00	2.88	96.00	2.72	90.67	8
K17-449	107	110	3.00	3.00	100.00	2.80	93.33	11
K17-449	110	113	3.00	2.96	98.67	2.74	91.33	10
K17-449	113	116	3.00	2.99	99.67	2.82	94.00	11
K17-449	116	119	3.00	2.93	97.67	2.84	94.67	9
K17-449	119	122	3.00	3.01	100.33	2.94	98.00	8
K17-449	122	125	3.00	3.00	100.00	2.85	95.00	8
K17-449	125	128	3.00	3.00	100.00	3.00	100.00	7
K17-449	128	131	3.00	2.96	98.67	2.72	90.67	9
K17-449	131	134	3.00	3.02	100.67	2.74	91.33	11
K17-449	134	137	3.00	2.96	98.67	2.80	93.33	6
K17-449	137	140	3.00	2.96	98.67	2.66	88.67	13
K17-449	140	143	3.00	3.05	101.67	2.66	88.67	4
K17-449	143	146	3.00	2.99	99.67	2.99	99.67	2
K17-449	146	149	3.00	2.99	99.67	2.76	92.00	5
K17-449	149	152	3.00	2.60	86.67	1.64	54.67	48
K17-449	152	155	3.00	2.87	95.67	2.50	83.33	19
K17-449	155	158	3.00	3.07	102.33	2.20	73.33	46
K17-449	158	161	3.00	2.81	93.67	2.12	70.67	29
K17-449	161	164	3.00	2.97	99.00	2.27	75.67	29
K17-449	164	167	3.00	2.97	99.00	2.51	83.67	25

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-449	167	170	3.00	3.02	100.67	2.72	90.67	23
K17-449	170	173	3.00	3.00	100.00	2.07	69.00	33
K17-449	173	176	3.00	2.91	97.00	2.05	68.33	30
K17-449	176	179	3.00	3.04	101.33	2.59	86.33	17
K17-449	179	182	3.00	3.03	101.00	2.12	70.67	35
K17-449	182	185	3.00	2.92	97.33	2.49	83.00	23
K17-449	185	188	3.00	2.63	87.67	1.33	44.33	68
K17-449	188	191	3.00	2.40	80.00	0.70	23.33	57
K17-449	191	194	3.00	3.00	100.00	2.80	93.33	15
K17-449	194	197	3.00	2.93	97.67	2.51	83.67	18
K17-449	197	200	3.00	2.90	96.67	2.28	76.00	24
K17-449	200	203	3.00	2.88	96.00	2.29	76.33	30
K17-449	203	206	3.00	3.00	100.00	2.47	82.33	14
K17-449	206	209	3.00	2.94	98.00	2.70	90.00	22
K17-449	209	212	3.00	2.92	97.33	1.80	60.00	42
K17-449	212	215	3.00	3.00	100.00	2.57	85.67	17
K17-449	215	218	3.00	3.00	100.00	2.56	85.33	18
K17-449	218	221	3.00	2.78	92.67	1.73	57.67	52
K17-449	221	224	3.00	2.86	95.33	1.69	56.33	34
K17-449	224	227	3.00	2.69	89.67	1.37	45.67	72
K17-449	227	230	3.00	2.92	97.33	1.88	62.67	41
K17-449	230	233	3.00	2.91	97.00	1.57	52.33	53
K17-449	233	236	3.00	2.03	67.67	0.66	22.00	56
K17-449	236	239	3.00	2.64	88.00	1.97	65.67	38
K17-449	239	242	3.00	2.99	99.67	1.72	57.33	32
K17-449	242	245	3.00	2.80	93.33	2.08	69.33	27
K17-449	245	248	3.00	2.98	99.33	2.21	73.67	23
K17-449	248	251	3.00	2.87	95.67	1.75	58.33	35
K17-449	251	254	3.00	2.90	96.67	1.94	64.67	30
K17-449	254	257	3.00	2.91	97.00	1.38	46.00	53
K17-449	257	260	3.00	2.67	89.00	1.33	44.33	1
K17-449	260	263	3.00	3.00	100.00	2.68	89.33	18
K17-449	263	266	3.00	2.87	95.67	2.48	82.67	14
K17-449	266	269	3.00	2.98	99.33	2.85	95.00	10
K17-449	269	272	3.00	2.93	97.67	2.87	95.67	11
K17-449	272	275	3.00	2.90	96.67	2.47	82.33	18
K17-449	275	278	3.00	2.90	96.67	2.68	89.33	13
K17-449	278	281	3.00	2.97	99.00	2.85	95.00	8
K17-449	281	284	3.00	2.86	95.33	2.72	90.67	10
K17-449	284	287	3.00	3.01	100.33	2.80	93.33	10
K17-449	287	290	3.00	2.97	99.00	2.89	96.33	9
K17-449	290	293	3.00	3.00	100.00	2.92	97.33	9
K17-449	293	296	3.00	2.97	99.00	2.76	92.00	7
K17-449	296	299	3.00	2.99	99.67	2.90	96.67	7
K17-449	299	302	3.00	2.95	98.33	2.86	95.33	9
K17-449	302	305	3.00	2.88	96.00	2.31	77.00	24
K17-449	305	308	3.00	3.00	100.00	2.65	88.33	16
K17-449	308	311	3.00	2.89	96.33	2.72	90.67	14

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-449	311	314	3.00	2.99	99.67	2.42	80.67	20
K17-449	314	317	3.00	2.72	90.67	1.70	56.67	39
K17-449	317	320	3.00	2.91	97.00	2.67	89.00	10
K17-449	320	323	3.00	2.98	99.33	2.39	79.67	20
K17-449	323	326	3.00	2.84	94.67	2.38	79.33	24
K17-449	326	329	3.00	2.78	92.67	2.48	82.67	17
K17-449	329	332	3.00	3.01	100.33	2.43	81.00	19
K17-449	332	335	3.00	2.96	98.67	2.65	88.33	18
K17-449	335	338	3.00	3.00	100.00	2.79	93.00	14
K17-449	338	341	3.00	2.93	97.67	2.85	95.00	6
K17-449	341	344	3.00	3.01	100.33	2.68	89.33	17
K17-449	344	347	3.00	2.90	96.67	1.69	56.33	41
K17-449	347	350	3.00	2.92	97.33	1.58	52.67	38
K17-449	350	353	3.00	3.01	100.33	2.04	68.00	28
K17-449	353	356	3.00	3.02	100.67	2.53	84.33	19
K17-449	356	359	3.00	2.99	99.67	2.73	91.00	9
K17-449	359	362	3.00	3.04	101.33	2.95	98.33	7
K17-449	362	365	3.00	2.89	96.33	2.45	81.67	23
K17-449	365	368	3.00	3.04	101.33	2.75	91.67	15
K17-449	368	371	3.00	2.96	98.67	2.40	80.00	19
K17-449	371	374	3.00	2.91	97.00	2.50	83.33	22
K17-449	374	377	3.00	3.03	101.00	2.79	93.00	15
K17-449	377	380	3.00	2.97	99.00	2.74	91.33	11
K17-449	380	383	3.00	2.93	97.67	2.68	89.33	17
K17-449	383	386	3.00	2.97	99.00	2.51	83.67	21
K17-449	386	389	3.00	3.02	100.67	2.72	90.67	20
K17-449	389	392	3.00	2.98	99.33	2.59	86.33	19
K17-449	392	395	3.00	2.92	97.33	2.67	89.00	17
K17-449	395	398	3.00	3.00	100.00	2.89	96.33	11
K17-449	398	401	3.00	3.03	101.00	3.00	100.00	5
K17-449	401	404	3.00	2.92	97.33	2.84	94.67	8
K17-449	404	407	3.00	2.98	99.33	2.73	91.00	12
K17-449	407	410	3.00	3.03	101.00	2.89	96.33	4
K17-449	410	413	3.00	2.93	97.67	2.71	90.33	6
K17-449	413	416	3.00	2.99	99.67	2.30	76.67	27
K17-449	416	419	3.00	2.88	96.00	1.81	60.33	31
K17-449	419	422	3.00	3.00	100.00	2.34	78.00	31
K17-449	422	425	3.00	2.98	99.33	2.61	87.00	19
K17-449	425	428	3.00	2.99	99.67	2.72	90.67	18
K17-449	428	431	3.00	2.95	98.33	2.87	95.67	7
K17-449	431	434	3.00	3.00	100.00	2.72	90.67	12
K17-449	434	437	3.00	3.00	100.00	2.86	95.33	8
K17-449	437	440	3.00	2.98	99.33	2.73	91.00	9
K17-449	440	443	3.00	3.06	102.00	2.93	97.67	9
K17-449	443	446	3.00	2.94	98.00	2.76	92.00	11
K17-449	446	449	3.00	2.91	97.00	2.63	87.67	15
K17-449	449	452	3.00	3.05	101.67	2.64	88.00	17
K17-449	452	455	3.00	2.89	96.33	2.45	81.67	19

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-449	455	458	3.00	2.92	97.33	2.74	91.33	15
K17-449	458	461	3.00	3.04	101.33	3.00	100.00	12
K17-449	461	464	3.00	2.98	99.33	2.93	97.67	6
K17-449	464	467	3.00	2.98	99.33	2.92	97.33	6
K17-449	467	470	3.00	3.00	100.00	2.02	67.33	13
K17-449	470	473	3.00	2.98	99.33	2.91	97.00	4
K17-449	473	476	3.00	2.85	95.00	2.67	89.00	7
K17-449	476	479	3.00	2.67	89.00	2.45	81.67	10
K17-449	479	482	3.00	3.07	102.33	2.80	93.33	5
K17-449	482	485	3.00	2.93	97.67	2.60	86.67	8
K17-449	485	488	3.00	2.98	99.33	2.60	86.67	11
K17-449	488	491	3.00	3.06	102.00	2.30	76.67	19
K17-449	491	494	3.00	2.93	97.67	2.54	84.67	12
K17-449	494	497	3.00	2.94	98.00	2.76	92.00	6
K17-449	497	500	3.00	2.98	99.33	2.45	81.67	12
K17-449	500	503	3.00	2.81	93.67	2.48	82.67	12
K17-449	503	506	3.00	2.92	97.33	2.51	83.67	18
K17-449	506	509	3.00	3.00	100.00	2.72	90.67	14
K17-449	509	512	3.00	2.95	98.33	2.65	88.33	10
K17-449	512	515	3.00	2.97	99.00	2.90	96.67	6
K17-449	515	518	3.00	2.86	95.33	2.60	86.67	5
K17-449	518	521	3.00	2.97	99.00	2.76	92.00	8
K17-449	521	524	3.00	3.00	100.00	2.64	88.00	9
K17-449	524	527	3.00	2.83	94.33	2.83	94.33	2
K17-449	527	530	3.00	3.04	101.33	2.84	94.67	9
K17-449	530	533	3.00	3.00	100.00	2.80	93.33	5
K17-449	533	536	3.00	3.00	100.00	2.97	99.00	5
K17-449	536	539	3.00	2.92	97.33	2.87	95.67	2
K17-449	539	542	3.00	3.03	101.00	2.97	99.00	2
K17-449	542	545	3.00	3.02	100.67	2.65	88.33	10
K17-449	545	548	3.00	2.92	97.33	2.81	93.67	5
K17-449	548	551	3.00	2.97	99.00	2.89	96.33	7
K17-449	551	554	3.00	3.03	101.00	2.99	99.67	4
K17-449	554	557	3.00	2.97	99.00	2.87	95.67	5
K17-449	557	560	3.00	3.00	100.00	2.78	92.67	7
K17-449	560	563	3.00	2.87	95.67	2.83	94.33	10
K17-449	563	566	3.00	2.90	96.67	2.75	91.67	4
K17-449	566	569	3.00	3.08	102.67	2.78	92.67	15
K17-449	569	572	3.00	2.95	98.33	2.68	89.33	9
K17-449	572	575	3.00	2.82	94.00	2.21	73.67	16
K17-449	575	578	3.00	3.00	100.00	2.67	89.00	13
K17-449	578	581	3.00	2.94	98.00	2.81	93.67	9
K17-449	581	584	3.00	2.83	94.33	2.06	68.67	20
K17-449	584	587	3.00	2.96	98.67	2.58	86.00	9
K17-449	587	590	3.00	2.98	99.33	2.78	92.67	11
K17-449	590	593	3.00	2.99	99.67	2.90	96.67	5
K17-449	593	596	3.00	2.95	98.33	2.58	86.00	9
K17-449	596	599	3.00	2.96	98.67	2.74	91.33	2

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-449	599	602	3.00	2.98	99.33	2.52	84.00	14
K17-449	602	605	3.00	2.91	97.00	2.58	86.00	12
K17-449	605	608	3.00	3.08	102.67	3.00	100.00	6
K17-449	608	611	3.00	2.94	98.00	2.64	88.00	15
K17-449	611	614	3.00	2.92	97.33	2.75	91.67	12
K17-449	614	617	3.00	3.07	102.33	2.64	88.00	19
K17-449	617	620	3.00	2.89	96.33	2.37	79.00	15
K17-449	620	623	3.00	2.95	98.33	2.72	90.67	12
K17-449	623	626	3.00	3.00	100.00	2.84	94.67	7
K17-449	626	629	3.00	2.94	98.00	2.63	87.67	6
K17-449	629	632	3.00	2.93	97.67	2.65	88.33	9
K17-449	632	635	3.00	3.01	100.33	2.56	85.33	18
K17-449	635	638	3.00	2.97	99.00	2.89	96.33	11
K17-449	638	641	3.00	2.92	97.33	2.21	73.67	12
K17-449	641	644	3.00	2.98	99.33	2.70	90.00	17
K17-449	644	647	3.00	2.90	96.67	2.62	87.33	16
K17-449	647	650	3.00	3.01	100.33	2.76	92.00	18
K17-449	650	653	3.00	2.92	97.33	2.37	79.00	17
K17-449	653	656	3.00	3.00	100.00	1.80	60.00	29
K17-449	656	659	3.00	2.73	91.00	1.97	65.67	21
K17-449	659	662	3.00	2.92	97.33	1.99	66.33	22
K17-449	662	665	3.00	2.99	99.67	2.66	88.67	18
K17-449	665	668	3.00	2.94	98.00	2.49	83.00	17
K17-449	668	671	3.00	2.94	98.00	2.43	81.00	18
K17-449	671	674	3.00	2.94	98.00	2.11	70.33	26
K17-449	674	677	3.00	3.04	101.33	2.15	71.67	35
K17-449	677	680	3.00	2.79	93.00	1.56	52.00	29
K17-449	680	683	3.00	2.94	98.00	2.75	91.67	18
K17-449	683	686	3.00	2.87	95.67	2.28	76.00	23
K17-449	686	689	3.00	3.00	100.00	1.65	55.00	37
K17-449	689	692	3.00	3.08	102.67	2.33	77.67	24
K17-449	692	695	3.00	2.80	93.33	2.18	72.67	22
K17-449	695	698	3.00	2.90	96.67	2.17	72.33	20
K17-449	698	701	3.00	2.96	98.67	2.64	88.00	15
K17-449	701	704	3.00	2.92	97.33	2.25	75.00	15
K17-449	704	707	3.00	2.97	99.00	2.60	86.67	11
K17-449	707	710	3.00	3.02	100.67	2.88	96.00	8
K17-449	710	713	3.00	2.95	98.33	2.87	95.67	5
K17-449	713	716	3.00	3.02	100.67	2.95	98.33	8
K17-449	716	719	3.00	2.95	98.33	2.88	96.00	8
K17-449	719	722	3.00	2.98	99.33	2.70	90.00	7
K17-449	722	725	3.00	2.75	91.67	2.48	82.67	11
K17-449	725	728	3.00	2.78	92.67	2.32	77.33	15
K17-449	728	731	3.00	2.98	99.33	2.70	90.00	14
K17-449	731	734	3.00	2.94	98.00	2.84	94.67	6
K17-449	734	737	3.00	2.99	99.67	2.91	97.00	4
K17-449	737	740	3.00	3.00	100.00	2.86	95.33	10
K17-449	740	743	3.00	3.00	100.00	2.78	92.67	9

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-449	743	746	3.00	2.94	98.00	2.34	78.00	17
K17-449	746	749	3.00	3.04	101.33	2.72	90.67	11
K17-449	749	752	3.00	2.95	98.33	2.20	73.33	16
K17-449	752	755	3.00	2.98	99.33	2.91	97.00	5
K17-449	755	758	3.00	2.93	97.67	2.81	93.67	4
K17-449	758	761	3.00	2.75	91.67	2.69	89.67	11
K17-449	761	764	3.00	3.08	102.67	2.63	87.67	11
K17-449	764	767	3.00	3.00	100.00	2.91	97.00	6
K17-449	767	770	3.00	3.02	100.67	2.82	94.00	10
K17-449	770	773	3.00	2.93	97.67	2.53	84.33	12
K17-449	773	776	3.00	2.92	97.33	2.83	94.33	9
K17-449	776	779	3.00	2.95	98.33	2.66	88.67	14
K17-449	779	782	3.00	3.06	102.00	2.35	78.33	19
K17-449	782	785	3.00	2.96	98.67	2.15	71.67	40
K17-449	785	788	3.00	2.75	91.67	2.48	82.67	13
K17-449	788	791	3.00	2.96	98.67	1.85	61.67	40
K17-449	791	794	3.00	2.96	98.67	2.11	70.33	25
K17-449	794	797	3.00	3.08	102.67	2.54	84.67	15
K17-449	797	800	3.00	2.92	97.33	2.67	89.00	14
K17-450	5	8	3.00	2.75	91.67	1.82	60.67	28
K17-450	8	11	3.00	3.05	101.67	1.96	65.33	19
K17-450	11	14	3.00	2.95	98.33	2.95	98.33	4
K17-450	14	17	3.00	3.05	101.67	2.84	94.67	13
K17-450	17	20	3.00	2.83	94.33	2.04	68.00	20
K17-450	20	23	3.00	2.90	96.67	2.04	68.00	18
K17-450	23	26	3.00	2.82	94.00	2.08	69.33	25
K17-450	26	29	3.00	3.00	100.00	2.43	81.00	13
K17-450	29	32	3.00	2.86	95.33	2.20	73.33	20
K17-450	32	35	3.00	2.88	96.00	2.64	88.00	10
K17-450	35	38	3.00	2.77	92.33	2.49	83.00	16
K17-450	38	41	3.00	2.90	96.67	2.78	92.67	5
K17-450	41	44	3.00	2.87	95.67	2.39	79.67	18
K17-450	44	47	3.00	2.78	92.67	2.60	86.67	11
K17-450	47	50	3.00	2.90	96.67	2.64	88.00	10
K17-450	50	53	3.00	2.92	97.33	2.69	89.67	12
K17-450	53	56	3.00	2.96	98.67	2.87	95.67	11
K17-450	56	59	3.00	3.01	100.33	2.86	95.33	9
K17-450	59	62	3.00	2.83	94.33	2.30	76.67	14
K17-450	62	65	3.00	3.00	100.00	2.89	96.33	5
K17-450	65	68	3.00	3.00	100.00	2.11	70.33	20
K17-450	68	71	3.00	2.96	98.67	2.88	96.00	13
K17-450	71	74	3.00	2.87	95.67	2.77	92.33	5
K17-450	74	77	3.00	3.09	103.00	2.96	98.67	6
K17-450	77	80	3.00	2.92	97.33	2.83	94.33	3
K17-450	80	83	3.00	2.99	99.67	2.81	93.67	6
K17-450	83	86	3.00	2.87	95.67	2.61	87.00	9
K17-450	86	89	3.00	2.91	97.00	2.85	95.00	7
K17-450	89	92	3.00	2.99	99.67	2.90	96.67	10

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-450	92	95	3.00	2.35	78.33	1.73	57.67	18
K17-450	95	98	3.00	3.02	100.67	2.01	67.00	35
K17-450	98	101	3.00	2.59	86.33	2.25	75.00	15
K17-450	101	104	3.00	3.08	102.67	2.81	93.67	18
K17-450	104	107	3.00	2.98	99.33	2.29	76.33	17
K17-450	107	110	3.00	2.91	97.00	2.44	81.33	11
K17-450	110	113	3.00	2.96	98.67	2.66	88.67	16
K17-450	113	116	3.00	3.00	100.00	2.82	94.00	18
K17-450	116	119	3.00	3.04	101.33	2.03	67.67	21
K17-450	119	122	3.00	2.90	96.67	2.69	89.67	9
K17-450	122	125	3.00	2.82	94.00	1.73	57.67	27
K17-450	125	128	3.00	3.08	102.67	2.32	77.33	18
K17-450	128	131	3.00	3.00	100.00	2.57	85.67	16
K17-450	131	134	3.00	2.85	95.00	2.42	80.67	17
K17-450	134	137	3.00	2.92	97.33	1.81	60.33	22
K17-450	137	140	3.00	2.97	99.00	2.12	70.67	23
K17-450	140	143	3.00	2.82	94.00	2.27	75.67	12
K17-450	143	146	3.00	3.00	100.00	2.69	89.67	13
K17-450	146	149	3.00	3.06	102.00	2.83	94.33	10
K17-450	149	152	3.00	2.89	96.33	2.54	84.67	11
K17-450	152	155	3.00	2.96	98.67	2.71	90.33	12
K17-450	155	158	3.00	3.04	101.33	2.84	94.67	14
K17-450	158	161	3.00	3.01	100.33	2.89	96.33	11
K17-450	161	164	3.00	3.00	100.00	2.79	93.00	8
K17-450	164	167	3.00	2.96	98.67	2.34	78.00	18
K17-450	167	170	3.00	2.93	97.67	2.63	87.67	12
K17-450	170	173	3.00	3.01	100.33	2.46	82.00	16
K17-450	173	176	3.00	2.98	99.33	2.33	77.67	20
K17-450	176	179	3.00	2.95	98.33	2.03	67.67	21
K17-450	179	182	3.00	2.89	96.33	2.82	94.00	10
K17-451	6.4	8.12	1.72	1.42	82.60	0.59	34.30	17
K17-451	8.12	9.62	1.50	1.50	100.00	1.35	90.00	6
K17-451	9.62	11.12	1.50	1.42	94.70	0.44	29.30	17
K17-452	6.1	7.62	1.52	1.45	95.39	0.10	6.58	61
K17-452	7.62	9.14	1.52	1.46	96.05	0.82	53.95	19
K17-452	9.14	10.45	1.31	1.19	90.84	0.51	38.93	25
K17-452	10.45	12.19	1.74	1.44	82.76	0.12	6.90	35
K17-452	12.19	12.95	0.76	0.76	100.00	0.00	0.00	30
K17-452	12.95	14.12	1.17	1.05	89.74	0.62	52.99	47
K17-452	14.12	15.62	1.50	1.45	96.67	0.20	13.33	60
K17-452	15.62	17.12	1.50	1.50	100.00	0.47	31.33	14
K17-452	17.12	18.62	1.50	1.50	100.00	0.73	48.67	12
K17-452	18.62	20.12	1.50	1.50	100.00	1.50	100.00	2
K17-452	20.12	21.62	1.50	1.50	100.00	1.50	100.00	2
K17-452	21.62	22.47	0.85	0.85	100.00	0.85	100.00	4
K17-452	22.47	23.12	0.65	0.65	100.00	0.55	84.62	0
K17-452	23.12	24.62	1.50	1.50	100.00	1.27	84.67	10
K17-452	24.62	26.12	1.50	1.26	84.00	0.72	48.00	10

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-452	26.12	27.62	1.50	1.45	96.67	0.55	36.67	60
K17-452	27.62	29.12	1.50	1.37	91.33	0.26	17.33	60
K17-452	29.12	30.62	1.50	1.47	98.00	1.21	80.67	6
K17-452	30.62	32.12	1.50	1.46	97.33	0.63	42.00	15
K17-452	32.12	33.62	1.50	1.29	86.00	0.28	18.67	60
K17-452	33.62	35.12	1.50	1.20	80.00	0.79	52.67	7
K17-452	35.12	36.03	0.91	0.79	86.81	0.30	32.97	30
K17-452	36.03	37.53	1.50	1.48	98.67	0.92	61.33	28
K17-452	37.53	39.03	1.50	1.44	96.00	0.70	46.67	16
K17-452	39.03	40.53	1.50	1.50	100.00	1.10	73.33	16
K17-453	2.8	3.8	1.00	1.00	100.00	0.95	95.00	5
K17-453	3.8	5.3	1.50	1.47	98.00	1.29	86.00	6
K17-453	5.3	6.8	1.50	1.48	98.67	1.33	88.67	3
K17-453	6.8	8.3	1.50	1.47	98.00	1.47	98.00	1
K17-453	8.3	9.8	1.50	1.46	97.33	1.46	97.33	1
K17-453	9.8	11.3	1.50	1.36	90.67	1.36	90.67	1
K17-454	5.45	6.69	1.24	1.23	99.19	0.64	51.61	30
K17-454	6.69	7.25	0.56	0.56	100.00	0.56	100.00	3
K17-454	7.25	8.19	0.94	0.64	68.09	0.89	94.68	3
K17-454	8.19	10	1.81	1.63	90.06	1.13	62.43	13
K17-454	10	10.2	0.20	0.15	75.00	0.00	0.00	8
K17-454	10.2	11.19	0.99	0.99	100.00	0.43	43.43	25
K17-455	3.8	5.3	1.50	1.15	76.67	0.00	0.00	60
K17-455	5.3	6.7	1.40	1.10	78.57	0.00	0.00	56
K17-455	6.7	7.8	1.10	0.85	77.27	0.00	0.00	44
K17-455	7.8	8.3	0.50	0.34	68.00	0.00	0.00	7
K17-455	8.3	9.8	1.50	1.45	96.67	1.13	75.33	6
K17-455	9.8	11.3	1.50	1.42	94.67	0.81	54.00	15
K17-455	11.3	12.8	1.50	1.50	100.00	1.04	69.33	9
K17-456	3.7	4.78	1.08	0.89	82.41	0.11	10.19	43
K17-456	4.78	5.21	0.43	0.43	100.00	0.11	25.58	15
K17-456	5.21	6.71	1.50	1.46	97.33	0.68	45.33	23
K17-456	6.71	7.7	0.99	0.99	100.00	0.71	71.72	7
K17-456	7.7	7.86	0.16	0.15	93.75	0.00	0.00	7
K17-456	7.86	8.21	0.35	0.35	100.00	0.20	57.14	3
K17-456	8.21	9.71	1.50	1.50	100.00	1.03	68.67	12
K17-456	9.71	11.21	1.50	1.42	94.67	0.85	56.67	14
K17-457	5.51	6.79	1.28	1.28	100.00	0.86	67.19	25
K17-457	6.79	8.29	1.50	1.50	100.00	0.93	62.00	13
K17-457	8.29	9.79	1.50	1.50	100.00	1.24	82.67	6
K17-457	9.79	11.29	1.50	1.50	100.00	1.47	98.00	2
K17-458	2.55	3.8	1.25	1.15	92.00	0.62	49.60	2
K17-458	3.8	5.3	1.50	1.50	100.00	1.50	100.00	1
K17-458	5.3	6.8	1.50	1.50	100.00	1.50	100.00	1
K17-458	6.8	8.3	1.50	1.50	100.00	1.50	100.00	0
K17-458	8.3	9.8	1.50	1.50	100.00	1.50	100.00	0
K17-458	9.8	11.3	1.50	1.50	100.00	1.37	91.33	5
K17-458	11.3	12.8	1.50	1.40	93.33	1.20	80.00	4

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-458	12.8	14.3	1.50	1.49	99.33	1.49	99.33	0
K17-458	14.3	15.8	1.50	1.48	98.67	1.48	98.67	0
K17-458	15.8	17.3	1.50	1.50	100.00	1.50	100.00	0
K17-458	17.3	18.8	1.50	1.50	100.00	1.50	100.00	0
K17-458	18.8	20.3	1.50	1.50	100.00	1.45	96.67	2
K17-458	20.3	21.8	1.50	1.50	100.00	1.50	100.00	0
K17-458	21.8	23.3	1.50	1.50	100.00	1.00	66.67	0
K17-458	23.3	24.8	1.50	1.48	98.67	1.26	84.00	3
K17-458	24.8	26.3	1.50	1.47	98.00	1.39	92.67	4
K17-458	26.3	27.8	1.50	1.50	100.00	1.45	96.67	5
K17-458	27.8	29	1.20	1.20	100.00	1.20	100.00	1
K17-458	29	29.3	0.30	0.30	100.00	0.00	0.00	12
K17-458	29.3	30.3	1.00	0.95	95.00	0.00	0.00	40
K17-458	30.3	30.8	0.50	0.50	100.00	0.18	36.00	5
K17-458	30.8	32.3	1.50	1.50	100.00	0.95	63.33	60
K17-458	32.3	33.8	1.50	1.49	99.33	1.29	86.00	5
K17-458	33.8	35.3	1.50	1.50	100.00	1.50	100.00	1
K17-458	35.3	36.8	1.50	1.44	96.00	1.44	96.00	2
K17-458	36.8	38.3	1.50	1.50	100.00	1.50	100.00	0
K17-458	38.3	39.8	1.50	1.50	100.00	1.50	100.00	1
K17-458	39.8	41.3	1.50	1.50	100.00	1.50	100.00	1
K17-459	2.9	4.36	1.46	1.47	100.68	1.34	91.78	11
K17-459	4.36	5.86	1.50	1.48	98.67	1.48	98.67	3
K17-459	5.86	7.36	1.50	1.50	100.00	1.38	92.00	7
K17-459	7.36	8.66	1.30	1.30	100.00	1.27	97.69	4
K17-459	8.66	8.86	0.20	0.15	75.00	0.00	0.00	8
K17-459	8.86	10.36	1.50	1.42	94.67	1.02	68.00	20
K17-459	10.36	11.86	1.50	1.46	97.33	1.46	97.33	6
K17-459	11.86	13.16	1.30	1.30	100.00	1.25	96.15	2
K17-459	13.16	13.36	0.20	0.16	80.00	0.00	0.00	8
K17-459	13.36	14.86	1.50	1.43	95.33	0.47	31.33	60
K17-459	14.86	16.36	1.50	1.40	93.33	0.87	58.00	20
K17-459	16.36	17.3	0.94	0.77	81.91	0.64	68.09	4
K17-459	17.3	18.5	1.20	0.45	37.50	0.15	12.50	2
K17-459	18.5	18.95	0.45	0.45	100.00	0.00	0.00	18
K17-459	18.95	19.8	0.85	0.85	100.00	0.64	75.29	7
K17-459	19.8	20.3	0.50	0.45	90.00	0.30	60.00	20
K17-459	20.3	21.8	1.50	1.45	96.67	1.45	96.67	2
K17-459	21.8	23.3	1.50	1.46	97.33	1.47	98.00	1
K17-459	23.3	24.8	1.50	1.50	100.00	1.29	86.00	6
K17-459	24.8	26.3	1.50	1.50	100.00	1.50	100.00	1
K17-459	26.3	27.8	1.50	1.50	100.00	1.50	100.00	1
K17-459	27.8	29.3	1.50	1.50	100.00	1.50	100.00	5
K17-459	29.3	30.8	1.50	1.50	100.00	1.50	100.00	0
K17-459	30.8	32.3	1.50	1.50	100.00	1.48	98.67	1
K17-459	32.3	33.8	1.50	1.50	100.00	1.50	100.00	1
K17-459	33.8	35.3	1.50	1.46	97.33	1.40	93.33	4
K17-459	35.3	36.2	0.90	0.90	100.00	0.90	100.00	0

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-459	36.2	36.5	0.30	0.30	100.00	0.00	0.00	12
K17-459	36.5	36.8	0.30	0.30	100.00	0.30	100.00	0
K17-459	36.8	38.3	1.50	1.50	100.00	1.50	100.00	0
K17-459	38.3	39.8	1.50	1.49	99.33	1.49	99.33	2
K17-459	39.8	41.3	1.50	1.50	100.00	1.50	100.00	1
K17-460	3.05	4.55	1.50	1.41	94.00	1.04	69.33	13
K17-460	4.55	6.05	1.50	1.49	99.33	1.30	86.67	7
K17-460	6.05	7.55	1.50	1.50	100.00	1.50	100.00	2
K17-460	7.55	9.05	1.50	1.49	99.33	1.45	96.67	8
K17-460	9.05	10	0.95	0.95	100.00	0.92	96.84	5
K17-460	10	10.25	0.25	0.15	60.00	0.00	0.00	10
K17-460	10.25	10.55	0.30	0.30	100.00	0.22	73.33	3
K17-460	10.55	12.05	1.50	1.50	100.00	1.21	80.67	13
K17-460	12.05	13.55	1.50	1.50	100.00	1.26	84.00	6
K17-460	13.55	15.05	1.50	1.50	100.00	1.49	99.33	2
K17-460	15.05	16.55	1.50	1.50	100.00	1.42	94.67	4
K17-460	16.55	18.05	1.50	1.50	100.00	1.35	90.00	5
K17-460	18.05	19.55	1.50	1.50	100.00	1.50	100.00	1
K17-460	19.55	21.05	1.50	1.50	100.00	1.34	89.33	7
K17-460	21.05	22.55	1.50	1.50	100.00	1.32	88.00	11
K17-460	22.55	23.08	0.53	0.53	100.00	0.43	81.13	3
K17-460	23.08	24.05	0.97	0.54	55.67	0.00	0.00	39
K17-460	24.05	24.33	0.28	0.28	100.00	0.00	0.00	11
K17-460	24.33	25.55	1.22	1.22	100.00	0.97	79.51	4
K17-460	25.55	27.05	1.50	1.44	96.00	1.05	70.00	12
K17-460	27.05	27.35	0.30	0.30	100.00	0.00	0.00	12
K17-460	27.35	28.55	1.20	1.20	100.00	1.18	98.33	2
K17-460	28.55	30.05	1.50	1.51	100.67	1.37	91.33	5
K17-460	30.05	31.55	1.50	1.50	100.00	1.50	100.00	4
K17-460	31.55	33.05	1.50	1.50	100.00	1.42	94.67	6
K17-460	33.05	34.55	1.50	1.50	100.00	1.46	97.33	3
K17-460	34.55	36.05	1.50	1.50	100.00	1.38	92.00	6
K17-460	36.05	37.55	1.50	1.50	100.00	1.50	100.00	4
K17-460	37.55	39.05	1.50	1.50	100.00	1.33	88.67	5
K17-460	39.05	40.55	1.50	1.50	100.00	1.38	92.00	2
K17-461	4.67	5.08	0.41	0.08	19.51	0.00	0.00	17
K17-461	5.08	5.3	0.22	0.22	100.00	0.22	100.00	0
K17-461	5.3	6.8	1.50	1.50	100.00	1.47	98.00	3
K17-461	6.8	8.3	1.50	1.50	100.00	1.45	96.67	3
K17-461	8.3	9.8	1.50	1.50	100.00	1.50	100.00	2
K17-461	9.8	11.3	1.50	1.50	100.00	1.50	100.00	3
K17-461	11.3	12.8	1.50	1.47	98.00	1.47	98.00	4
K17-461	12.8	14.3	1.50	1.50	100.00	1.50	100.00	4
K17-461	14.3	15.8	1.50	1.50	100.00	1.14	76.00	9
K17-461	15.8	17.3	1.50	1.51	100.67	1.40	93.33	4
K17-461	17.3	18.8	1.50	1.46	97.33	1.46	97.33	2
K17-461	18.8	20.3	1.50	1.45	96.67	1.45	96.67	1
K17-461	20.3	21.8	1.50	1.38	92.00	0.93	62.00	15

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-461	21.8	23.3	1.50	1.50	100.00	0.67	44.67	60
K17-461	23.3	24.8	1.50	1.50	100.00	1.50	100.00	3
K17-461	24.8	26.3	1.50	1.47	98.00	0.79	52.67	60
K17-461	26.3	27.8	1.50	1.50	100.00	1.50	100.00	5
K17-461	27.8	29.3	1.50	1.49	99.33	1.49	99.33	2
K17-461	29.3	30.8	1.50	1.50	100.00	1.40	93.33	7
K17-461	30.8	32.3	1.50	1.49	99.33	0.73	48.67	10
K17-461	32.3	33.8	1.50	1.48	98.67	1.18	78.67	6
K17-461	33.8	35.3	1.50	1.50	100.00	1.50	100.00	2
K17-461	35.3	36.8	1.50	1.50	100.00	1.17	78.00	60
K17-461	36.8	38.3	1.50	1.50	100.00	1.50	100.00	1
K17-461	38.3	39.8	1.50	1.43	95.33	1.18	78.67	6
K17-461	39.8	41.3	1.50	1.50	100.00	1.35	90.00	4
K17-461	41.3	42.8	1.50	1.40	93.33	0.21	14.00	60
K17-462	3.05	3.8	0.75	0.15	20.00	0.00	0.00	30
K17-462	3.8	5.3	1.50	1.35	90.00	0.18	12.00	60
K17-462	5.3	6.8	1.50	1.49	99.33	0.99	66.00	12
K17-462	6.8	8.3	1.50	1.50	100.00	0.81	54.00	18
K17-462	8.3	9.8	1.50	1.48	98.67	1.29	86.00	3
K17-462	9.8	11.3	1.50	1.50	100.00	1.45	96.67	3
K17-462	11.3	12.8	1.50	1.50	100.00	1.50	100.00	3
K17-462	12.8	14.3	1.50	1.50	100.00	1.50	100.00	1
K17-462	14.3	15.8	1.50	1.50	100.00	1.50	100.00	2
K17-462	15.8	17.3	1.50	1.50	100.00	1.50	100.00	1
K17-462	17.3	18.6	1.30	1.25	96.15	0.96	73.85	7
K17-462	18.6	20.2	1.60	1.60	100.00	1.60	100.00	3
K17-462	20.2	21.8	1.60	1.58	98.75	1.55	96.87	3
K17-462	21.8	23.3	1.50	1.50	100.00	0.82	54.67	60
K17-462	23.3	24.8	1.50	1.50	100.00	1.23	82.00	7
K17-462	24.8	26.3	1.50	1.50	100.00	1.21	80.67	10
K17-462	26.3	27.8	1.50	1.50	100.00	1.50	100.00	3
K17-462	27.8	29.3	1.50	1.50	100.00	1.48	98.67	2
K17-462	29.3	30.8	1.50	1.50	100.00	1.51	100.67	2
K17-462	30.8	32.3	1.50	1.50	100.00	1.42	94.67	3
K17-462	32.3	33.8	1.50	1.50	100.00	1.42	94.67	3
K17-462	33.8	35.3	1.50	1.50	100.00	1.49	99.33	0
K17-462	35.3	36.8	1.50	1.49	99.33	1.45	96.67	1
K17-462	36.8	37	0.20	0.20	100.00	0.00	0.00	8
K17-462	37	38.3	1.30	1.28	98.46	1.24	95.38	2
K17-462	38.3	39.8	1.50	1.45	96.67	1.00	66.67	10
K17-462	39.8	41.3	1.50	1.10	73.33	1.00	66.67	2
K17-462	41.3	41.8	0.50	0.50	100.00	0.50	100.00	1
K17-462	41.8	42.8	1.00	0.96	96.00	0.10	10.00	40
K17-463	7.4	9.22	1.82	0.97	53.30	0.29	15.93	25
K17-463	9.22	10.72	1.50	1.50	100.00	1.14	76.00	10
K17-463	10.72	12.22	1.50	1.55	103.33	1.29	86.00	10
K17-464	4.27	5.89	1.62	1.43	0.88	0.91	0.56	20
K17-464	5.89	7.39	1.50	1.44	0.96	0.64	0.43	19

Hole	From (m)	To (m)	Length (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	Number of Joints
K17-464	7.39	8.89	1.50	1.41	0.94	1.30	0.87	60
K17-464	8.89	9.52	0.63	0.63	1.00	0.13	0.21	20
K17-464	9.52	10.39	0.87	0.42	0.48	0.00	0.00	36
K17-464	10.39	11.34	0.95	0.67	0.71	0.00	0.00	38
K17-464	11.34	11.89	0.55	0.55	1.00	0.42	0.76	3
K17-464	11.89	13.39	1.50	1.50	1.00	0.28	0.19	60
K17-464	13.39	14.89	1.50	1.50	1.00	0.42	0.28	30
K17-464	14.89	16.39	1.50	1.50	1.00	0.49	0.33	28
K17-464	16.39	17.89	1.50	1.30	0.87	0.26	0.17	60
K17-464	17.89	19.39	1.50	1.50	1.00	0.90	0.60	18
K17-464	19.39	20.89	1.50	1.50	1.00	1.38	0.92	9
K17-464	20.89	22.39	1.50	1.46	0.97	0.78	0.52	18
K17-464	22.39	23.23	0.84	0.60	0.71	0.00	0.00	34
K17-464	23.23	23.89	0.66	0.66	1.00	0.63	0.95	4
K17-464	23.89	25.39	1.50	1.50	1.00	0.49	0.33	60
K17-464	25.39	27.15	1.76	1.73	0.98	1.25	0.71	19
K17-464	27.15	28.69	1.54	1.43	0.93	0.14	0.09	20
K17-464	28.69	28.83	0.14	0.14	1.00	0.00	0.00	6
K17-464	28.83	29.89	1.06	1.06	1.00	0.98	0.92	5
K17-464	29.89	31.39	1.50	1.50	1.00	1.04	0.69	14
K17-464	31.39	32.22	0.83	0.83	1.00	0.63	0.76	8
K17-464	32.22	32.89	0.67	0.67	1.00	0.67	1.00	1
K17-464	32.89	34.39	1.50	1.50	1.00	1.39	0.93	3
K17-464	34.39	35.89	1.50	1.50	1.00	1.34	0.89	8
K17-464	35.89	37.39	1.50	1.50	1.00	1.34	0.89	7
K17-464	37.39	38.89	1.50	1.50	1.00	1.51	1.01	5
K17-464	38.89	40.39	1.50	1.50	1.00	1.30	0.87	6
K17-465	1.4	3.12	1.72	0.54	31.00	0.00	0.00	69
K17-465	3.12	4.62	1.50	0.09	6.00	0.00	0.00	60
K17-465	4.62	5.9	1.28	0.90	70.00	0.00	0.00	51
K17-465	5.9	6.12	0.22	0.22	100.00	0.10	45.00	3
K17-465	6.12	7.62	1.50	1.35	90.00	0.39	26.00	60
K17-465	7.62	9.12	1.50	1.43	95.00	0.17	11.00	60
K17-465	9.12	10.62	1.50	1.50	100.00	1.30	87.00	10
K17-466	2.6	3.05	0.45	0.45	100.00	0.00	0.00	18
K17-466	3.05	4.55	1.50	0.50	33.33	0.00	0.00	60
K17-466	4.55	5.58	1.03	0.94	91.26	0.00	0.00	41
K17-466	5.58	6.05	0.47	0.47	100.00	0.10	21.28	10
K17-466	6.05	7.55	1.50	1.53	102.00	0.33	22.00	27
K17-466	7.55	9.05	1.50	1.49	99.33	0.74	49.33	19
K17-466	9.05	9.75	0.70	0.70	100.00	0.00	0.00	16
K17-466	9.75	10.55	0.80	0.73	91.25	0.00	0.00	18
K17-466	10.55	12.05	1.50	0.82	54.67	0.00	0.00	60
K17-466	12.05	13.55	1.50	1.37	91.33	0.31	20.67	41
K17-466	13.55	15.05	1.50	1.50	100.00	0.49	32.67	25

Table R-3: Magnetic susceptibility of 2017 Drilling

Hole	Depth (m)	Reading	Method	Instrument
K17-421	1	0	MAG	MPPprobe
K17-421	1.5	0	MAG	MPPprobe
K17-421	2	0	MAG	MPPprobe
K17-421	2.5	0	MAG	MPPprobe
K17-421	3	0	MAG	MPPprobe
K17-421	3.5	0	MAG	MPPprobe
K17-421	4	0	MAG	MPPprobe
K17-421	5.5	0	MAG	MPPprobe
K17-421	6	0	MAG	MPPprobe
K17-421	6.5	0	MAG	MPPprobe
K17-421	7	0	MAG	MPPprobe
K17-421	7.5	0	MAG	MPPprobe
K17-421	8	0	MAG	MPPprobe
K17-421	8.5	0	MAG	MPPprobe
K17-421	9	0	MAG	MPPprobe
K17-421	9.5	0	MAG	MPPprobe
K17-421	10	0.04	MAG	MPPprobe
K17-421	10.5	0	MAG	MPPprobe
K17-421	11	0	MAG	MPPprobe
K17-421	11.5	0	MAG	MPPprobe
K17-421	12	0	MAG	MPPprobe
K17-421	12.5	0	MAG	MPPprobe
K17-421	13	0	MAG	MPPprobe
K17-421	13.5	0	MAG	MPPprobe
K17-421	14	0	MAG	MPPprobe
K17-421	14.5	0	MAG	MPPprobe
K17-421	15	0	MAG	MPPprobe
K17-421	15.5	0	MAG	MPPprobe
K17-421	16	0.19	MAG	MPPprobe
K17-421	16.5	0.23	MAG	MPPprobe
K17-421	17	0	MAG	MPPprobe
K17-421	17.5	0	MAG	MPPprobe
K17-421	18	0	MAG	MPPprobe
K17-421	18.5	0	MAG	MPPprobe
K17-421	19	0	MAG	MPPprobe
K17-421	19.5	0.16	MAG	MPPprobe
K17-421	20	0	MAG	MPPprobe
K17-421	20.5	0	MAG	MPPprobe
K17-421	21	0	MAG	MPPprobe
K17-421	21.5	0	MAG	MPPprobe
K17-421	22	0	MAG	MPPprobe
K17-421	22.5	0.27	MAG	MPPprobe
K17-421	23	0.19	MAG	MPPprobe
K17-421	23.5	0	MAG	MPPprobe
K17-421	24	0.08	MAG	MPPprobe
K17-421	24.5	0.06	MAG	MPPprobe
K17-421	25	0.06	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-421	25.5	0.1	MAG	MPPprobe
K17-421	26	0.08	MAG	MPPprobe
K17-421	26.5	0	MAG	MPPprobe
K17-421	27	0.08	MAG	MPPprobe
K17-421	27.5	0.06	MAG	MPPprobe
K17-421	28	0.06	MAG	MPPprobe
K17-421	28.5	0.02	MAG	MPPprobe
K17-421	29	0.02	MAG	MPPprobe
K17-421	29.5	0.02	MAG	MPPprobe
K17-421	30	0.1	MAG	MPPprobe
K17-421	30.5	0.16	MAG	MPPprobe
K17-421	31	0.12	MAG	MPPprobe
K17-421	31.5	0.19	MAG	MPPprobe
K17-421	32	0.23	MAG	MPPprobe
K17-421	32.5	0.08	MAG	MPPprobe
K17-421	33	0.02	MAG	MPPprobe
K17-421	33.5	0.06	MAG	MPPprobe
K17-421	34	0.54	MAG	MPPprobe
K17-421	34.5	0.72	MAG	MPPprobe
K17-421	35	0.41	MAG	MPPprobe
K17-421	35.5	0.23	MAG	MPPprobe
K17-421	36	0.39	MAG	MPPprobe
K17-421	36.5	0.66	MAG	MPPprobe
K17-421	37	0	MAG	MPPprobe
K17-421	37.5	0	MAG	MPPprobe
K17-421	38	0	MAG	MPPprobe
K17-421	38.5	0	MAG	MPPprobe
K17-421	39	0	MAG	MPPprobe
K17-421	39.5	0	MAG	MPPprobe
K17-421	40	0	MAG	MPPprobe
K17-421	40.5	0.06	MAG	MPPprobe
K17-422	3	0.02	MAG	MPPprobe
K17-422	3.5	0	MAG	MPPprobe
K17-422	4	0	MAG	MPPprobe
K17-422	4.5	0.34	MAG	MPPprobe
K17-422	5	0.19	MAG	MPPprobe
K17-422	5.5	0.07	MAG	MPPprobe
K17-422	6	0	MAG	MPPprobe
K17-422	6.5	0.06	MAG	MPPprobe
K17-422	7	0.19	MAG	MPPprobe
K17-422	7.5	0.19	MAG	MPPprobe
K17-422	8	0.17	MAG	MPPprobe
K17-422	8.5	0.77	MAG	MPPprobe
K17-422	9	0.13	MAG	MPPprobe
K17-422	9.5	0.3	MAG	MPPprobe
K17-422	10	0	MAG	MPPprobe
K17-422	10.5	0.56	MAG	MPPprobe
K17-422	11	0.15	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-422	11.5	0.69	MAG	MPPprobe
K17-422	12	0.79	MAG	MPPprobe
K17-422	12.5	0.65	MAG	MPPprobe
K17-422	13	0.11	MAG	MPPprobe
K17-422	13.5	0.22	MAG	MPPprobe
K17-422	14	0.07	MAG	MPPprobe
K17-422	14.5	0.07	MAG	MPPprobe
K17-422	15	0.17	MAG	MPPprobe
K17-422	15.5	0.41	MAG	MPPprobe
K17-422	16	0.22	MAG	MPPprobe
K17-422	16.5	0.22	MAG	MPPprobe
K17-422	17	0.07	MAG	MPPprobe
K17-422	17.5	0.5	MAG	MPPprobe
K17-422	18	0.17	MAG	MPPprobe
K17-422	18.5	0.73	MAG	MPPprobe
K17-422	19	0.82	MAG	MPPprobe
K17-422	19.5	1.1	MAG	MPPprobe
K17-422	20	0.24	MAG	MPPprobe
K17-422	20.5	0.71	MAG	MPPprobe
K17-422	21	0.34	MAG	MPPprobe
K17-422	21.5	0.64	MAG	MPPprobe
K17-422	22	0.52	MAG	MPPprobe
K17-422	22.5	1.78	MAG	MPPprobe
K17-422	23	2.11	MAG	MPPprobe
K17-422	23.5	0.34	MAG	MPPprobe
K17-422	24	0.21	MAG	MPPprobe
K17-422	24.5	0.9	MAG	MPPprobe
K17-422	25	1.25	MAG	MPPprobe
K17-422	25.5	0.69	MAG	MPPprobe
K17-422	26	0.58	MAG	MPPprobe
K17-422	26.5	0.69	MAG	MPPprobe
K17-422	27	0.24	MAG	MPPprobe
K17-422	27.5	1.35	MAG	MPPprobe
K17-422	28	0.56	MAG	MPPprobe
K17-422	28.5	0.22	MAG	MPPprobe
K17-422	29	0.28	MAG	MPPprobe
K17-422	29.5	0.15	MAG	MPPprobe
K17-422	30	0.28	MAG	MPPprobe
K17-422	30.5	0.19	MAG	MPPprobe
K17-422	31	0.3	MAG	MPPprobe
K17-422	31.5	0.24	MAG	MPPprobe
K17-422	32	0.3	MAG	MPPprobe
K17-422	32.5	0.07	MAG	MPPprobe
K17-422	33	0.3	MAG	MPPprobe
K17-422	33.5	0.36	MAG	MPPprobe
K17-422	34	0.24	MAG	MPPprobe
K17-422	34.5	0.56	MAG	MPPprobe
K17-422	35	0.04	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-422	35.5	0.58	MAG	MPPprobe
K17-422	36	1.57	MAG	MPPprobe
K17-422	36.5	0.36	MAG	MPPprobe
K17-422	37	2.32	MAG	MPPprobe
K17-422	37.5	4.04	MAG	MPPprobe
K17-422	38	1.89	MAG	MPPprobe
K17-422	38.5	0.54	MAG	MPPprobe
K17-422	39	0.21	MAG	MPPprobe
K17-422	39.5	0.17	MAG	MPPprobe
K17-422	40	1.52	MAG	MPPprobe
K17-422	40.5	0.9	MAG	MPPprobe
K17-422	41	1.55	MAG	MPPprobe
K17-422	41.5	1.44	MAG	MPPprobe
K17-422	42	3.01	MAG	MPPprobe
K17-422	42.5	0.84	MAG	MPPprobe
K17-422	43	0.06	MAG	MPPprobe
K17-422	43.5	0.22	MAG	MPPprobe
K17-422	44	0.11	MAG	MPPprobe
K17-422	44.5	0.21	MAG	MPPprobe
K17-422	45	0.51	MAG	MPPprobe
K17-422	45.5	2.49	MAG	MPPprobe
K17-422	46	1.31	MAG	MPPprobe
K17-422	46.5	0.13	MAG	MPPprobe
K17-422	47	0.21	MAG	MPPprobe
K17-422	47.5	0.21	MAG	MPPprobe
K17-422	49	0.17	MAG	MPPprobe
K17-422	49.5	1.72	MAG	MPPprobe
K17-422	50	2.19	MAG	MPPprobe
K17-422	50.5	0.32	MAG	MPPprobe
K17-422	51	0.19	MAG	MPPprobe
K17-422	51.5	0.58	MAG	MPPprobe
K17-422	52	0.24	MAG	MPPprobe
K17-422	52.5	0.19	MAG	MPPprobe
K17-422	53	0.19	MAG	MPPprobe
K17-422	53.5	0.15	MAG	MPPprobe
K17-422	54	0.43	MAG	MPPprobe
K17-422	54.5	1.05	MAG	MPPprobe
K17-422	55	0.62	MAG	MPPprobe
K17-422	55.5	0.51	MAG	MPPprobe
K17-422	56	0.43	MAG	MPPprobe
K17-422	56.5	1.82	MAG	MPPprobe
K17-422	57	0.22	MAG	MPPprobe
K17-422	57.5	0.84	MAG	MPPprobe
K17-422	58	2.68	MAG	MPPprobe
K17-422	58.5	0.56	MAG	MPPprobe
K17-422	59	0.09	MAG	MPPprobe
K17-422	59.5	0.22	MAG	MPPprobe
K17-422	60	1.37	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-422	60.5	0.22	MAG	MPPprobe
K17-422	61	0.19	MAG	MPPprobe
K17-422	61.5	0.58	MAG	MPPprobe
K17-422	62	1.03	MAG	MPPprobe
K17-422	62.5	0.17	MAG	MPPprobe
K17-422	63	1.03	MAG	MPPprobe
K17-422	63.5	0.66	MAG	MPPprobe
K17-422	64	0.41	MAG	MPPprobe
K17-422	64.5	0.47	MAG	MPPprobe
K17-422	65	0.92	MAG	MPPprobe
K17-422	65.5	1.59	MAG	MPPprobe
K17-422	66	1.14	MAG	MPPprobe
K17-422	66.5	0.84	MAG	MPPprobe
K17-422	67	1.03	MAG	MPPprobe
K17-422	67.5	0.41	MAG	MPPprobe
K17-422	68	0.07	MAG	MPPprobe
K17-422	68.5	0.28	MAG	MPPprobe
K17-422	69	0.49	MAG	MPPprobe
K17-422	69.5	0.67	MAG	MPPprobe
K17-422	70	1.44	MAG	MPPprobe
K17-422	70.5	0.62	MAG	MPPprobe
K17-422	71	0.36	MAG	MPPprobe
K17-422	71.5	1.2	MAG	MPPprobe
K17-422	72	0.69	MAG	MPPprobe
K17-422	72.5	0.36	MAG	MPPprobe
K17-422	73	0.28	MAG	MPPprobe
K17-422	73.5	2.15	MAG	MPPprobe
K17-422	74	0.24	MAG	MPPprobe
K17-422	74.5	0.9	MAG	MPPprobe
K17-422	75	0.66	MAG	MPPprobe
K17-422	75.5	0.62	MAG	MPPprobe
K17-422	76	0.81	MAG	MPPprobe
K17-422	76.5	0.47	MAG	MPPprobe
K17-422	77	0.81	MAG	MPPprobe
K17-422	77.5	1.65	MAG	MPPprobe
K17-422	78	0.13	MAG	MPPprobe
K17-422	78.5	1.25	MAG	MPPprobe
K17-422	79	2.6	MAG	MPPprobe
K17-422	79.5	0.64	MAG	MPPprobe
K17-422	80	0.49	MAG	MPPprobe
K17-422	80.5	3.73	MAG	MPPprobe
K17-422	81	0.45	MAG	MPPprobe
K17-422	81.5	0.36	MAG	MPPprobe
K17-422	82	0.15	MAG	MPPprobe
K17-422	82.5	0.43	MAG	MPPprobe
K17-422	83	0.49	MAG	MPPprobe
K17-422	83.5	0.62	MAG	MPPprobe
K17-422	84	0.26	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-422	84.5	0.26	MAG	MPPprobe
K17-422	85	0.39	MAG	MPPprobe
K17-422	85.5	1.14	MAG	MPPprobe
K17-422	86	0.28	MAG	MPPprobe
K17-422	86.5	0.22	MAG	MPPprobe
K17-422	87	0.39	MAG	MPPprobe
K17-422	87.5	0.62	MAG	MPPprobe
K17-422	88	1.11	MAG	MPPprobe
K17-422	88.5	0.52	MAG	MPPprobe
K17-422	89	0.86	MAG	MPPprobe
K17-422	89.5	0.17	MAG	MPPprobe
K17-422	90	0.51	MAG	MPPprobe
K17-422	90.5	0.37	MAG	MPPprobe
K17-422	91	1.35	MAG	MPPprobe
K17-422	91.5	2.08	MAG	MPPprobe
K17-422	92	0.26	MAG	MPPprobe
K17-422	92.5	0.75	MAG	MPPprobe
K17-422	93	4.31	MAG	MPPprobe
K17-422	93.5	5.86	MAG	MPPprobe
K17-422	94	1.55	MAG	MPPprobe
K17-422	94.5	4.25	MAG	MPPprobe
K17-422	95	3.82	MAG	MPPprobe
K17-422	95.5	1.4	MAG	MPPprobe
K17-422	96	2.21	MAG	MPPprobe
K17-422	96.5	1.4	MAG	MPPprobe
K17-422	97	1.46	MAG	MPPprobe
K17-422	97.5	0.58	MAG	MPPprobe
K17-422	98	1.27	MAG	MPPprobe
K17-422	98.5	0.39	MAG	MPPprobe
K17-422	99	0	MAG	MPPprobe
K17-422	99.5	0.67	MAG	MPPprobe
K17-422	100	0.6	MAG	MPPprobe
K17-422	100.5	0.56	MAG	MPPprobe
K17-422	101	0.47	MAG	MPPprobe
K17-422	101.5	1.27	MAG	MPPprobe
K17-422	102	1.74	MAG	MPPprobe
K17-422	102.5	0.51	MAG	MPPprobe
K17-422	103	0.28	MAG	MPPprobe
K17-422	103.5	0	MAG	MPPprobe
K17-422	104	0.96	MAG	MPPprobe
K17-422	104.5	0	MAG	MPPprobe
K17-422	105	0	MAG	MPPprobe
K17-422	105.5	0.06	MAG	MPPprobe
K17-422	106	0	MAG	MPPprobe
K17-422	106.5	0	MAG	MPPprobe
K17-422	107	0	MAG	MPPprobe
K17-422	107.5	0	MAG	MPPprobe
K17-422	108	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-422	108.5	0.11	MAG	MPPprobe
K17-422	109	0.26	MAG	MPPprobe
K17-422	109.5	0.13	MAG	MPPprobe
K17-422	110	2.4	MAG	MPPprobe
K17-422	110.5	0.51	MAG	MPPprobe
K17-422	111	0.36	MAG	MPPprobe
K17-422	111.5	0.19	MAG	MPPprobe
K17-422	112	1.1	MAG	MPPprobe
K17-422	112.5	0.07	MAG	MPPprobe
K17-422	113	0	MAG	MPPprobe
K17-422	113.5	0.09	MAG	MPPprobe
K17-422	114	0.02	MAG	MPPprobe
K17-422	114.5	0	MAG	MPPprobe
K17-422	115	0.24	MAG	MPPprobe
K17-422	115.5	0.11	MAG	MPPprobe
K17-422	116	0.3	MAG	MPPprobe
K17-422	116.5	0.02	MAG	MPPprobe
K17-422	117	0	MAG	MPPprobe
K17-422	117.5	0	MAG	MPPprobe
K17-422	118	0.15	MAG	MPPprobe
K17-422	118.5	0.09	MAG	MPPprobe
K17-422	119	0.67	MAG	MPPprobe
K17-422	119.5	0.19	MAG	MPPprobe
K17-422	120	0.21	MAG	MPPprobe
K17-422	120.5	0.43	MAG	MPPprobe
K17-422	121	0.49	MAG	MPPprobe
K17-422	121.5	1.16	MAG	MPPprobe
K17-422	122	1.22	MAG	MPPprobe
K17-422	122.5	0.77	MAG	MPPprobe
K17-422	123	0.71	MAG	MPPprobe
K17-422	123.5	1.38	MAG	MPPprobe
K17-422	124	0.77	MAG	MPPprobe
K17-422	124.5	0.3	MAG	MPPprobe
K17-422	125	0.22	MAG	MPPprobe
K17-422	125.5	0.45	MAG	MPPprobe
K17-422	126	0.24	MAG	MPPprobe
K17-422	126.5	0.6	MAG	MPPprobe
K17-422	127	1.29	MAG	MPPprobe
K17-422	127.5	4.52	MAG	MPPprobe
K17-422	128	0.6	MAG	MPPprobe
K17-422	128.5	2.05	MAG	MPPprobe
K17-422	129	0.41	MAG	MPPprobe
K17-422	129.5	3.18	MAG	MPPprobe
K17-422	130	0.15	MAG	MPPprobe
K17-422	130.5	0.37	MAG	MPPprobe
K17-422	131	0.88	MAG	MPPprobe
K17-422	131.5	0.54	MAG	MPPprobe
K17-422	132	0.15	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-422	132.5	0.22	MAG	MPPprobe
K17-422	133	0.17	MAG	MPPprobe
K17-422	133.5	0.15	MAG	MPPprobe
K17-422	134	0.19	MAG	MPPprobe
K17-422	134.5	0.56	MAG	MPPprobe
K17-422	135	0.41	MAG	MPPprobe
K17-422	135.5	0.5	MAG	MPPprobe
K17-422	136	0.17	MAG	MPPprobe
K17-422	136.5	0	MAG	MPPprobe
K17-422	137	0.34	MAG	MPPprobe
K17-422	137.5	0.32	MAG	MPPprobe
K17-422	138	0.32	MAG	MPPprobe
K17-422	138.5	0.24	MAG	MPPprobe
K17-422	139	0.45	MAG	MPPprobe
K17-422	139.5	0.11	MAG	MPPprobe
K17-422	140	0.15	MAG	MPPprobe
K17-422	140.5	0.32	MAG	MPPprobe
K17-422	141	0	MAG	MPPprobe
K17-422	141.5	0.17	MAG	MPPprobe
K17-422	142	0.22	MAG	MPPprobe
K17-422	142.5	0.37	MAG	MPPprobe
K17-422	143	0.11	MAG	MPPprobe
K17-422	143.5	2.46	MAG	MPPprobe
K17-422	144	1.51	MAG	MPPprobe
K17-422	144.5	0.44	MAG	MPPprobe
K17-422	145	0.8	MAG	MPPprobe
K17-422	145.5	0.31	MAG	MPPprobe
K17-422	146	0.31	MAG	MPPprobe
K17-422	146.5	0.25	MAG	MPPprobe
K17-422	147	5.31	MAG	MPPprobe
K17-422	147.5	30.9	MAG	MPPprobe
K17-422	148	13.7	MAG	MPPprobe
K17-422	148.5	12.3	MAG	MPPprobe
K17-422	149	13.7	MAG	MPPprobe
K17-422	149.5	21	MAG	MPPprobe
K17-422	150	4.08	MAG	MPPprobe
K17-422	150.5	0.88	MAG	MPPprobe
K17-422	151	0.28	MAG	MPPprobe
K17-422	151.5	0.64	MAG	MPPprobe
K17-422	152	0.38	MAG	MPPprobe
K17-422	152.5	0.82	MAG	MPPprobe
K17-422	153	0.18	MAG	MPPprobe
K17-422	153.5	0.44	MAG	MPPprobe
K17-422	154	0.33	MAG	MPPprobe
K17-422	154.5	0.28	MAG	MPPprobe
K17-422	155	5.88	MAG	MPPprobe
K17-422	155.5	0.89	MAG	MPPprobe
K17-422	156	3.06	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-422	156.5	8.52	MAG	MPPprobe
K17-422	157	1.84	MAG	MPPprobe
K17-422	157.5	19.7	MAG	MPPprobe
K17-422	158	0.87	MAG	MPPprobe
K17-422	158.5	0.82	MAG	MPPprobe
K17-422	159	1.16	MAG	MPPprobe
K17-422	159.5	3.18	MAG	MPPprobe
K17-422	160	6.36	MAG	MPPprobe
K17-422	160.5	1.98	MAG	MPPprobe
K17-422	161	9.83	MAG	MPPprobe
K17-422	161.5	20.3	MAG	MPPprobe
K17-422	162	5.72	MAG	MPPprobe
K17-422	162.5	2.75	MAG	MPPprobe
K17-422	163	0.95	MAG	MPPprobe
K17-422	163.5	0.67	MAG	MPPprobe
K17-422	164	6.83	MAG	MPPprobe
K17-422	164.5	2.48	MAG	MPPprobe
K17-422	165	13.8	MAG	MPPprobe
K17-422	165.5	8.61	MAG	MPPprobe
K17-422	166	0.59	MAG	MPPprobe
K17-422	166.5	0.23	MAG	MPPprobe
K17-422	167	0.31	MAG	MPPprobe
K17-422	167.5	0.44	MAG	MPPprobe
K17-422	168	1.2	MAG	MPPprobe
K17-422	168.5	0.36	MAG	MPPprobe
K17-422	169	0.69	MAG	MPPprobe
K17-422	169.5	0.52	MAG	MPPprobe
K17-422	170	0.62	MAG	MPPprobe
K17-422	170.5	0.36	MAG	MPPprobe
K17-422	171	1.2	MAG	MPPprobe
K17-422	171.5	0.15	MAG	MPPprobe
K17-422	172	0.09	MAG	MPPprobe
K17-422	172.5	0.41	MAG	MPPprobe
K17-422	173	5.91	MAG	MPPprobe
K17-422	173.5	0.41	MAG	MPPprobe
K17-422	174	0.45	MAG	MPPprobe
K17-422	174.5	0.21	MAG	MPPprobe
K17-422	175	0.02	MAG	MPPprobe
K17-422	175.5	0.39	MAG	MPPprobe
K17-422	176	0.49	MAG	MPPprobe
K17-422	176.5	0.45	MAG	MPPprobe
K17-422	177	0.04	MAG	MPPprobe
K17-422	177.5	0.28	MAG	MPPprobe
K17-422	178	0.21	MAG	MPPprobe
K17-422	178.5	0.02	MAG	MPPprobe
K17-422	179	0.02	MAG	MPPprobe
K17-422	179.5	0.06	MAG	MPPprobe
K17-422	180	29.1	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-422	180.5	0.54	MAG	MPPprobe
K17-422	181	1.18	MAG	MPPprobe
K17-422	181.5	1.03	MAG	MPPprobe
K17-422	182	0.58	MAG	MPPprobe
K17-422	182.5	0.8	MAG	MPPprobe
K17-422	183	0.07	MAG	MPPprobe
K17-422	183.5	0	MAG	MPPprobe
K17-422	184	0.07	MAG	MPPprobe
K17-422	184.5	0	MAG	MPPprobe
K17-422	185	0	MAG	MPPprobe
K17-422	185.5	0	MAG	MPPprobe
K17-422	186	0.04	MAG	MPPprobe
K17-422	186.5	0.17	MAG	MPPprobe
K17-422	187	1.07	MAG	MPPprobe
K17-422	187.5	0.71	MAG	MPPprobe
K17-422	188	1.95	MAG	MPPprobe
K17-422	188.5	0.24	MAG	MPPprobe
K17-422	189	0.06	MAG	MPPprobe
K17-422	189.5	0.09	MAG	MPPprobe
K17-422	190	0.04	MAG	MPPprobe
K17-422	190.5	0	MAG	MPPprobe
K17-422	191	0.02	MAG	MPPprobe
K17-422	191.5	0	MAG	MPPprobe
K17-422	192	0	MAG	MPPprobe
K17-422	192.5	0.02	MAG	MPPprobe
K17-422	193	0	MAG	MPPprobe
K17-422	193.5	0	MAG	MPPprobe
K17-422	194	0.09	MAG	MPPprobe
K17-422	194.5	0.04	MAG	MPPprobe
K17-422	195	0.07	MAG	MPPprobe
K17-422	195.5	0	MAG	MPPprobe
K17-422	196	0.06	MAG	MPPprobe
K17-422	196.5	0.06	MAG	MPPprobe
K17-422	197	0.13	MAG	MPPprobe
K17-422	197.5	0.02	MAG	MPPprobe
K17-422	198	0.15	MAG	MPPprobe
K17-422	198.5	0.19	MAG	MPPprobe
K17-422	199	0.13	MAG	MPPprobe
K17-422	199.5	0.17	MAG	MPPprobe
K17-422	200	0.06	MAG	MPPprobe
K17-422	200.5	0.15	MAG	MPPprobe
K17-422	201	0.26	MAG	MPPprobe
K17-422	201.5	3.87	MAG	MPPprobe
K17-422	202	0.52	MAG	MPPprobe
K17-422	202.5	0.11	MAG	MPPprobe
K17-422	203	0.09	MAG	MPPprobe
K17-422	203.5	0.09	MAG	MPPprobe
K17-422	204	0.09	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-422	204.5	0.13	MAG	MPPprobe
K17-422	205	0.28	MAG	MPPprobe
K17-422	205.5	0.36	MAG	MPPprobe
K17-422	206	0.07	MAG	MPPprobe
K17-422	206.5	0	MAG	MPPprobe
K17-422	207	0.07	MAG	MPPprobe
K17-422	207.5	0.56	MAG	MPPprobe
K17-422	208	0.04	MAG	MPPprobe
K17-422	208.5	0.02	MAG	MPPprobe
K17-422	209	0.07	MAG	MPPprobe
K17-422	209.5	0.09	MAG	MPPprobe
K17-422	210	0.19	MAG	MPPprobe
K17-422	210.5	0	MAG	MPPprobe
K17-422	211	0	MAG	MPPprobe
K17-422	211.5	0	MAG	MPPprobe
K17-422	212	0.06	MAG	MPPprobe
K17-422	212.5	0.13	MAG	MPPprobe
K17-422	213	0.13	MAG	MPPprobe
K17-422	213.5	0.09	MAG	MPPprobe
K17-422	214	0.06	MAG	MPPprobe
K17-422	214.5	0	MAG	MPPprobe
K17-422	215	0.3	MAG	MPPprobe
K17-422	215.5	1.1	MAG	MPPprobe
K17-422	216	2.23	MAG	MPPprobe
K17-422	216.5	1.85	MAG	MPPprobe
K17-422	217	2.19	MAG	MPPprobe
K17-422	217.5	2.21	MAG	MPPprobe
K17-422	218	1.03	MAG	MPPprobe
K17-422	218.5	0.45	MAG	MPPprobe
K17-422	219	0.82	MAG	MPPprobe
K17-422	219.5	1.2	MAG	MPPprobe
K17-422	220	1.63	MAG	MPPprobe
K17-422	220.5	0.84	MAG	MPPprobe
K17-422	221	0.65	MAG	MPPprobe
K17-423	1.5	0.84	MAG	MPPprobe
K17-423	2	0.19	MAG	MPPprobe
K17-423	2.5	0.23	MAG	MPPprobe
K17-423	3	0.14	MAG	MPPprobe
K17-423	3.5	0.41	MAG	MPPprobe
K17-423	4	0.33	MAG	MPPprobe
K17-423	4.5	0.37	MAG	MPPprobe
K17-423	5	0.86	MAG	MPPprobe
K17-423	5.5	0	MAG	MPPprobe
K17-423	6	0.99	MAG	MPPprobe
K17-423	6.5	0.29	MAG	MPPprobe
K17-423	7	0.04	MAG	MPPprobe
K17-423	7.5	0	MAG	MPPprobe
K17-423	8	0.7	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-423	8.5	0.72	MAG	MPPprobe
K17-423	9	1.34	MAG	MPPprobe
K17-423	9.5	2.68	MAG	MPPprobe
K17-423	10	0.91	MAG	MPPprobe
K17-423	10.5	0.56	MAG	MPPprobe
K17-423	11	0.72	MAG	MPPprobe
K17-423	11.5	0.47	MAG	MPPprobe
K17-423	12	1.4	MAG	MPPprobe
K17-423	12.5	0.68	MAG	MPPprobe
K17-423	13	0.23	MAG	MPPprobe
K17-423	13.5	0.35	MAG	MPPprobe
K17-423	14	0.39	MAG	MPPprobe
K17-423	14.5	0.08	MAG	MPPprobe
K17-423	15	0.6	MAG	MPPprobe
K17-423	15.5	0.41	MAG	MPPprobe
K17-423	16	1.65	MAG	MPPprobe
K17-423	16.5	1.94	MAG	MPPprobe
K17-423	17	1.07	MAG	MPPprobe
K17-423	17.5	0.74	MAG	MPPprobe
K17-423	18	1.24	MAG	MPPprobe
K17-423	18.5	0.54	MAG	MPPprobe
K17-423	19	0.16	MAG	MPPprobe
K17-423	19.5	0.16	MAG	MPPprobe
K17-423	20	2	MAG	MPPprobe
K17-423	20.5	4.04	MAG	MPPprobe
K17-423	21	5.64	MAG	MPPprobe
K17-423	21.5	0.29	MAG	MPPprobe
K17-423	22	0	MAG	MPPprobe
K17-423	22.5	1.19	MAG	MPPprobe
K17-423	23	0	MAG	MPPprobe
K17-423	23.5	0.39	MAG	MPPprobe
K17-423	24	0	MAG	MPPprobe
K17-423	24.5	0	MAG	MPPprobe
K17-423	25	2.43	MAG	MPPprobe
K17-423	25.5	0.23	MAG	MPPprobe
K17-423	26	1.52	MAG	MPPprobe
K17-423	26.5	0.54	MAG	MPPprobe
K17-423	27	0.58	MAG	MPPprobe
K17-423	27.5	2.14	MAG	MPPprobe
K17-423	28	1.61	MAG	MPPprobe
K17-423	28.5	0	MAG	MPPprobe
K17-423	29	0	MAG	MPPprobe
K17-423	29.5	0	MAG	MPPprobe
K17-423	30	0	MAG	MPPprobe
K17-423	30.5	0.41	MAG	MPPprobe
K17-423	31	0.39	MAG	MPPprobe
K17-423	31.5	0.08	MAG	MPPprobe
K17-423	32	3.25	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-423	32.5	0.74	MAG	MPPprobe
K17-423	33	0	MAG	MPPprobe
K17-423	33.5	0.21	MAG	MPPprobe
K17-423	34	0	MAG	MPPprobe
K17-423	34.5	0.31	MAG	MPPprobe
K17-423	35	0.41	MAG	MPPprobe
K17-423	35.5	0.64	MAG	MPPprobe
K17-423	36	0.62	MAG	MPPprobe
K17-423	36.5	0	MAG	MPPprobe
K17-423	37	0	MAG	MPPprobe
K17-423	37.5	0.62	MAG	MPPprobe
K17-423	38	0.41	MAG	MPPprobe
K17-423	38.5	0.25	MAG	MPPprobe
K17-423	39	0.08	MAG	MPPprobe
K17-423	39.5	0.7	MAG	MPPprobe
K17-423	40	1.65	MAG	MPPprobe
K17-423	40.5	2.2	MAG	MPPprobe
K17-425	3.5	0.49	MAG	MPPprobe
K17-425	4	0.34	MAG	MPPprobe
K17-425	4.5	0.22	MAG	MPPprobe
K17-425	5	0.07	MAG	MPPprobe
K17-425	5.5	0.32	MAG	MPPprobe
K17-425	6	0.19	MAG	MPPprobe
K17-425	6.5	0.3	MAG	MPPprobe
K17-425	7	0.15	MAG	MPPprobe
K17-425	7.5	0.24	MAG	MPPprobe
K17-425	8	0.11	MAG	MPPprobe
K17-425	8.5	0.21	MAG	MPPprobe
K17-425	9	0.62	MAG	MPPprobe
K17-425	9.5	0.47	MAG	MPPprobe
K17-425	10	0.19	MAG	MPPprobe
K17-425	10.5	0.45	MAG	MPPprobe
K17-425	11	0	MAG	MPPprobe
K17-425	11.5	0.43	MAG	MPPprobe
K17-425	12	0.56	MAG	MPPprobe
K17-425	12.5	0.52	MAG	MPPprobe
K17-425	13	0.37	MAG	MPPprobe
K17-425	13.5	0.21	MAG	MPPprobe
K17-425	14	0.22	MAG	MPPprobe
K17-425	14.5	0.17	MAG	MPPprobe
K17-425	15	0.24	MAG	MPPprobe
K17-425	15.5	0.3	MAG	MPPprobe
K17-425	16	0.15	MAG	MPPprobe
K17-425	16.5	0.37	MAG	MPPprobe
K17-425	17	0.24	MAG	MPPprobe
K17-425	17.5	0.32	MAG	MPPprobe
K17-425	18	0.3	MAG	MPPprobe
K17-425	18.5	0.3	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-425	19	0.24	MAG	MPPprobe
K17-425	19.5	0.15	MAG	MPPprobe
K17-425	20	0.22	MAG	MPPprobe
K17-425	20.5	1.27	MAG	MPPprobe
K17-425	21	0.07	MAG	MPPprobe
K17-425	21.5	0.06	MAG	MPPprobe
K17-425	22	0.13	MAG	MPPprobe
K17-425	23	0.56	MAG	MPPprobe
K17-425	23.5	0.69	MAG	MPPprobe
K17-425	24	0.71	MAG	MPPprobe
K17-425	24.5	4.85	MAG	MPPprobe
K17-425	25	1.86	MAG	MPPprobe
K17-425	25.5	1.16	MAG	MPPprobe
K17-425	26	0.28	MAG	MPPprobe
K17-425	26.5	0.26	MAG	MPPprobe
K17-425	27	0.39	MAG	MPPprobe
K17-425	27.5	0.92	MAG	MPPprobe
K17-425	28	0.24	MAG	MPPprobe
K17-425	28.5	0.28	MAG	MPPprobe
K17-425	29	0.11	MAG	MPPprobe
K17-425	29.5	0.3	MAG	MPPprobe
K17-425	30	0.28	MAG	MPPprobe
K17-425	30.5	0.3	MAG	MPPprobe
K17-425	31	0.04	MAG	MPPprobe
K17-425	31.5	0.69	MAG	MPPprobe
K17-425	32	0.22	MAG	MPPprobe
K17-425	32.5	0.15	MAG	MPPprobe
K17-425	33	0.39	MAG	MPPprobe
K17-425	33.5	0.21	MAG	MPPprobe
K17-425	34	0.24	MAG	MPPprobe
K17-425	34.5	0.67	MAG	MPPprobe
K17-425	35	1.52	MAG	MPPprobe
K17-425	35.5	1.05	MAG	MPPprobe
K17-425	36	0.71	MAG	MPPprobe
K17-425	36.5	0.69	MAG	MPPprobe
K17-425	37	5.49	MAG	MPPprobe
K17-425	37.5	2.72	MAG	MPPprobe
K17-425	38	1.67	MAG	MPPprobe
K17-425	38.5	2.36	MAG	MPPprobe
K17-425	39	1.91	MAG	MPPprobe
K17-425	39.5	1.5	MAG	MPPprobe
K17-425	40	3.3	MAG	MPPprobe
K17-425	40.5	1.46	MAG	MPPprobe
K17-426	6.5	0.69	MAG	MPPprobe
K17-426	7	3.07	MAG	MPPprobe
K17-426	7.5	0.79	MAG	MPPprobe
K17-426	8	0.94	MAG	MPPprobe
K17-426	8.5	4.44	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-426	9	5.83	MAG	MPPprobe
K17-426	9.5	1.22	MAG	MPPprobe
K17-426	10	0.54	MAG	MPPprobe
K17-426	10.5	3.47	MAG	MPPprobe
K17-426	11	0.88	MAG	MPPprobe
K17-426	11.5	2.7	MAG	MPPprobe
K17-426	12	5.85	MAG	MPPprobe
K17-426	12.5	3.26	MAG	MPPprobe
K17-426	13	2.74	MAG	MPPprobe
K17-426	13.5	0.6	MAG	MPPprobe
K17-426	14	5.32	MAG	MPPprobe
K17-426	14.5	0.56	MAG	MPPprobe
K17-426	15	1.78	MAG	MPPprobe
K17-426	15.5	6.9	MAG	MPPprobe
K17-426	16	0.6	MAG	MPPprobe
K17-426	16.5	5.73	MAG	MPPprobe
K17-426	17	5.51	MAG	MPPprobe
K17-426	17.5	0.3	MAG	MPPprobe
K17-426	18	0.66	MAG	MPPprobe
K17-426	18.5	4.54	MAG	MPPprobe
K17-426	19	2.29	MAG	MPPprobe
K17-426	19.5	3.39	MAG	MPPprobe
K17-426	20	1.63	MAG	MPPprobe
K17-426	20.5	2.38	MAG	MPPprobe
K17-426	21	0.34	MAG	MPPprobe
K17-426	21.5	0.96	MAG	MPPprobe
K17-426	22	2.7	MAG	MPPprobe
K17-426	22.5	8.94	MAG	MPPprobe
K17-426	23	4.31	MAG	MPPprobe
K17-426	23.5	6.82	MAG	MPPprobe
K17-426	24	1.14	MAG	MPPprobe
K17-426	24.5	5.15	MAG	MPPprobe
K17-426	25	1.57	MAG	MPPprobe
K17-426	25.5	0.81	MAG	MPPprobe
K17-426	26	3.41	MAG	MPPprobe
K17-426	26.5	2.81	MAG	MPPprobe
K17-426	27	3.07	MAG	MPPprobe
K17-426	27.5	2.98	MAG	MPPprobe
K17-426	28	2.34	MAG	MPPprobe
K17-426	28.5	1.46	MAG	MPPprobe
K17-426B	6.5	0.43	MAG	MPPprobe
K17-426B	7	0.37	MAG	MPPprobe
K17-426B	7.5	0.21	MAG	MPPprobe
K17-426B	8	0.81	MAG	MPPprobe
K17-426B	8.5	0.32	MAG	MPPprobe
K17-426B	9	0.26	MAG	MPPprobe
K17-426B	9.5	0.36	MAG	MPPprobe
K17-426B	10	0.34	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-426B	10.5	0.39	MAG	MPPprobe
K17-426B	11	0.45	MAG	MPPprobe
K17-426B	11.5	0.92	MAG	MPPprobe
K17-426B	12	0.71	MAG	MPPprobe
K17-426B	12.5	0.52	MAG	MPPprobe
K17-426B	13	0.69	MAG	MPPprobe
K17-426B	13.5	0.6	MAG	MPPprobe
K17-426B	14	0.54	MAG	MPPprobe
K17-426B	14.5	9.74	MAG	MPPprobe
K17-426B	15	2.98	MAG	MPPprobe
K17-426B	15.5	2.17	MAG	MPPprobe
K17-426B	16	5.34	MAG	MPPprobe
K17-426B	16.5	3.39	MAG	MPPprobe
K17-426B	17	2.4	MAG	MPPprobe
K17-426B	17.5	0.52	MAG	MPPprobe
K17-426B	18	2.32	MAG	MPPprobe
K17-426B	18.5	0.73	MAG	MPPprobe
K17-426B	19	0.45	MAG	MPPprobe
K17-426B	19.5	0.41	MAG	MPPprobe
K17-426B	20	3.43	MAG	MPPprobe
K17-426B	20.5	7.63	MAG	MPPprobe
K17-426B	21	3.54	MAG	MPPprobe
K17-426B	21.5	3.47	MAG	MPPprobe
K17-426B	22	3.65	MAG	MPPprobe
K17-426B	22.5	1.07	MAG	MPPprobe
K17-426B	23	0.41	MAG	MPPprobe
K17-426B	23.5	0.69	MAG	MPPprobe
K17-426B	24	1.93	MAG	MPPprobe
K17-426B	24.5	1.85	MAG	MPPprobe
K17-426B	25	0.71	MAG	MPPprobe
K17-426B	25.5	4.8	MAG	MPPprobe
K17-426B	26	4.53	MAG	MPPprobe
K17-426B	26.5	3.41	MAG	MPPprobe
K17-426B	27	0.94	MAG	MPPprobe
K17-426B	27.5	0.97	MAG	MPPprobe
K17-426B	28	5.06	MAG	MPPprobe
K17-426B	28.5	4.72	MAG	MPPprobe
K17-426B	29	2.44	MAG	MPPprobe
K17-426B	29.5	0.36	MAG	MPPprobe
K17-426B	30	0.02	MAG	MPPprobe
K17-426B	30.5	0.3	MAG	MPPprobe
K17-426B	31	0.11	MAG	MPPprobe
K17-426B	31.5	0.39	MAG	MPPprobe
K17-426B	32	0.39	MAG	MPPprobe
K17-426B	32.5	0.06	MAG	MPPprobe
K17-426B	33	0.41	MAG	MPPprobe
K17-426B	33.5	0.52	MAG	MPPprobe
K17-426B	34	0.58	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-426B	34.5	0.09	MAG	MPPprobe
K17-426B	35	0.34	MAG	MPPprobe
K17-426B	35.5	0.26	MAG	MPPprobe
K17-426B	36	0	MAG	MPPprobe
K17-426B	36.5	0.41	MAG	MPPprobe
K17-426B	37	0.22	MAG	MPPprobe
K17-426B	37.5	0.15	MAG	MPPprobe
K17-426B	38	0.09	MAG	MPPprobe
K17-426B	38.5	0.24	MAG	MPPprobe
K17-426B	39	16.7	MAG	MPPprobe
K17-426B	39.5	1.69	MAG	MPPprobe
K17-426B	40	0.11	MAG	MPPprobe
K17-426B	40.48	1.63	MAG	MPPprobe
K17-428	11	1.01	MAG	MPPprobe
K17-428	11.5	0.94	MAG	MPPprobe
K17-428	12	2.25	MAG	MPPprobe
K17-428	12.5	2.1	MAG	MPPprobe
K17-428	13	2.34	MAG	MPPprobe
K17-428	13.5	0.86	MAG	MPPprobe
K17-428	14	1.27	MAG	MPPprobe
K17-428	14.5	6.2	MAG	MPPprobe
K17-428	15	2.53	MAG	MPPprobe
K17-428	15.5	2.21	MAG	MPPprobe
K17-428	16	1.09	MAG	MPPprobe
K17-428	16.5	0.58	MAG	MPPprobe
K17-428	17	0.66	MAG	MPPprobe
K17-428	17.5	0.43	MAG	MPPprobe
K17-428	18	0.56	MAG	MPPprobe
K17-428	18.5	1.46	MAG	MPPprobe
K17-428	19	4.16	MAG	MPPprobe
K17-428	19.5	1.27	MAG	MPPprobe
K17-428	20	0.79	MAG	MPPprobe
K17-428	20.5	2.16	MAG	MPPprobe
K17-428	21	3.66	MAG	MPPprobe
K17-428	21.5	2.19	MAG	MPPprobe
K17-428	22	2.01	MAG	MPPprobe
K17-428	22.5	0.9	MAG	MPPprobe
K17-428	23	1.48	MAG	MPPprobe
K17-428	23.5	1.89	MAG	MPPprobe
K17-428	24	0.94	MAG	MPPprobe
K17-428	24.5	2.57	MAG	MPPprobe
K17-428	25	0.79	MAG	MPPprobe
K17-428	25.5	0.99	MAG	MPPprobe
K17-428	26	1.65	MAG	MPPprobe
K17-428	26.5	0.82	MAG	MPPprobe
K17-428	27	0.19	MAG	MPPprobe
K17-428	27.5	0	MAG	MPPprobe
K17-428	28	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-428	28.5	0	MAG	MPPprobe
K17-428	29	0	MAG	MPPprobe
K17-428	29.5	0	MAG	MPPprobe
K17-428	30	0	MAG	MPPprobe
K17-428	30.5	0	MAG	MPPprobe
K17-428	31	0	MAG	MPPprobe
K17-428	31.5	0	MAG	MPPprobe
K17-428	32	0.64	MAG	MPPprobe
K17-428	32.5	2.19	MAG	MPPprobe
K17-428	33	0.34	MAG	MPPprobe
K17-428	33.5	1.63	MAG	MPPprobe
K17-428	34	2.29	MAG	MPPprobe
K17-428	34.5	0	MAG	MPPprobe
K17-428	35	0	MAG	MPPprobe
K17-428	35.5	0	MAG	MPPprobe
K17-428	36	0.17	MAG	MPPprobe
K17-428	36.5	0.79	MAG	MPPprobe
K17-428	37	0.26	MAG	MPPprobe
K17-428	37.5	0.62	MAG	MPPprobe
K17-428	38	0.32	MAG	MPPprobe
K17-428	38.5	0.54	MAG	MPPprobe
K17-428	39	1.71	MAG	MPPprobe
K17-428	39.5	0.51	MAG	MPPprobe
K17-428	40	0.47	MAG	MPPprobe
K17-428	40.5	0.36	MAG	MPPprobe
K17-429	6.5	1.22	MAG	MPPprobe
K17-429	7	0.28	MAG	MPPprobe
K17-429	7.5	0.34	MAG	MPPprobe
K17-429	8	0.13	MAG	MPPprobe
K17-429	8.5	0.13	MAG	MPPprobe
K17-429	9	0.17	MAG	MPPprobe
K17-429	10	0	MAG	MPPprobe
K17-429	10.5	0.41	MAG	MPPprobe
K17-429	11	0.34	MAG	MPPprobe
K17-429	11.5	0.49	MAG	MPPprobe
K17-429	12	0.41	MAG	MPPprobe
K17-429	12.5	0.6	MAG	MPPprobe
K17-429	13	0.62	MAG	MPPprobe
K17-429	13.5	0.13	MAG	MPPprobe
K17-429	14	0.26	MAG	MPPprobe
K17-429	14.5	1.18	MAG	MPPprobe
K17-429	15	0.24	MAG	MPPprobe
K17-429	15.5	1.05	MAG	MPPprobe
K17-429	16	0.36	MAG	MPPprobe
K17-429	16.5	0.51	MAG	MPPprobe
K17-429	17	0.49	MAG	MPPprobe
K17-429	19.5	0.45	MAG	MPPprobe
K17-429	20	0.26	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-429	20.5	0.32	MAG	MPPprobe
K17-429	21.5	0.32	MAG	MPPprobe
K17-429	22	0.41	MAG	MPPprobe
K17-429	22.5	0.15	MAG	MPPprobe
K17-429	23	0.19	MAG	MPPprobe
K17-429	23.5	0.21	MAG	MPPprobe
K17-429	24	0.39	MAG	MPPprobe
K17-429	24.5	0.41	MAG	MPPprobe
K17-429	25	0.22	MAG	MPPprobe
K17-429	25.5	0.3	MAG	MPPprobe
K17-429	26	0.22	MAG	MPPprobe
K17-429	26.5	0.22	MAG	MPPprobe
K17-429	27	0.79	MAG	MPPprobe
K17-429	27.5	0.47	MAG	MPPprobe
K17-429	28	0.28	MAG	MPPprobe
K17-429	28.5	0.43	MAG	MPPprobe
K17-429	29	0.13	MAG	MPPprobe
K17-429	29.5	0.22	MAG	MPPprobe
K17-429	30	0.09	MAG	MPPprobe
K17-429	30.5	0.13	MAG	MPPprobe
K17-429	31	0.07	MAG	MPPprobe
K17-429	31.5	0.28	MAG	MPPprobe
K17-429	32	0.17	MAG	MPPprobe
K17-429	32.5	0.17	MAG	MPPprobe
K17-429	33.5	0.22	MAG	MPPprobe
K17-429	34	0.3	MAG	MPPprobe
K17-429	34.5	0.11	MAG	MPPprobe
K17-429	35	0.28	MAG	MPPprobe
K17-429	35.5	0.11	MAG	MPPprobe
K17-429	36	0.21	MAG	MPPprobe
K17-437	23.5	0.86	MAG	MPPprobe
K17-437	24	1.03	MAG	MPPprobe
K17-437	24.5	0.34	MAG	MPPprobe
K17-437	25	0.32	MAG	MPPprobe
K17-437	25.5	0.26	MAG	MPPprobe
K17-437	26	0.11	MAG	MPPprobe
K17-437	27	0.09	MAG	MPPprobe
K17-437	27.5	0.09	MAG	MPPprobe
K17-437	28	0.15	MAG	MPPprobe
K17-437	28.5	0.11	MAG	MPPprobe
K17-437	29	0.21	MAG	MPPprobe
K17-437	29.5	0.03	MAG	MPPprobe
K17-437	30	0.02	MAG	MPPprobe
K17-437	30.5	0.12	MAG	MPPprobe
K17-437	31	0	MAG	MPPprobe
K17-437	31.5	0	MAG	MPPprobe
K17-437	32	0	MAG	MPPprobe
K17-437	32.5	0.05	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-437	33	0.05	MAG	MPPprobe
K17-437	33.5	0	MAG	MPPprobe
K17-437	34	0.03	MAG	MPPprobe
K17-437	34.5	0.25	MAG	MPPprobe
K17-437	35	0.18	MAG	MPPprobe
K17-437	35.5	0.18	MAG	MPPprobe
K17-437	36	0.41	MAG	MPPprobe
K17-437	36.5	0.28	MAG	MPPprobe
K17-437	37	0.07	MAG	MPPprobe
K17-437	37.5	0.18	MAG	MPPprobe
K17-437	38	0.28	MAG	MPPprobe
K17-437	38.5	0.56	MAG	MPPprobe
K17-437	39	0.18	MAG	MPPprobe
K17-437	39.5	0.23	MAG	MPPprobe
K17-437	40	0.25	MAG	MPPprobe
K17-437	40.5	0.53	MAG	MPPprobe
K17-437	41	0.53	MAG	MPPprobe
K17-437	41.5	0.15	MAG	MPPprobe
K17-437	42	0.05	MAG	MPPprobe
K17-437	42.5	0.1	MAG	MPPprobe
K17-437	43	0	MAG	MPPprobe
K17-437	43.5	0.28	MAG	MPPprobe
K17-437	44	0.2	MAG	MPPprobe
K17-437	44.5	0.1	MAG	MPPprobe
K17-437	45	0.08	MAG	MPPprobe
K17-437	45.5	0.19	MAG	MPPprobe
K17-437	46	0.17	MAG	MPPprobe
K17-437	46.5	0.11	MAG	MPPprobe
K17-437	47	0.06	MAG	MPPprobe
K17-437	47.5	0.13	MAG	MPPprobe
K17-437	48	0.13	MAG	MPPprobe
K17-437	48.5	0.19	MAG	MPPprobe
K17-437	49	0.21	MAG	MPPprobe
K17-437	49.5	0.13	MAG	MPPprobe
K17-437	50	0.15	MAG	MPPprobe
K17-437	50.5	0.3	MAG	MPPprobe
K17-437	51	0.11	MAG	MPPprobe
K17-437	51.5	0.19	MAG	MPPprobe
K17-437	52	0.15	MAG	MPPprobe
K17-437	52.5	0.07	MAG	MPPprobe
K17-437	53	0.07	MAG	MPPprobe
K17-437	53.5	0.07	MAG	MPPprobe
K17-437	54	0.37	MAG	MPPprobe
K17-437	54.5	0.04	MAG	MPPprobe
K17-437	55	0.15	MAG	MPPprobe
K17-437	55.5	0.07	MAG	MPPprobe
K17-437	56	0.06	MAG	MPPprobe
K17-437	56.5	0.15	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-437	57	0.06	MAG	MPPprobe
K17-437	57.5	0.11	MAG	MPPprobe
K17-437	58	0.09	MAG	MPPprobe
K17-437	58.5	0.13	MAG	MPPprobe
K17-437	59	0	MAG	MPPprobe
K17-437	59.5	0.09	MAG	MPPprobe
K17-437	60	0.06	MAG	MPPprobe
K17-437	60.5	0.09	MAG	MPPprobe
K17-437	61	0.02	MAG	MPPprobe
K17-437	61.5	0.06	MAG	MPPprobe
K17-437	62	0.11	MAG	MPPprobe
K17-437	62.5	0.04	MAG	MPPprobe
K17-437	63	0.11	MAG	MPPprobe
K17-437	63.5	0.11	MAG	MPPprobe
K17-437	64	0.06	MAG	MPPprobe
K17-437	64.5	0.17	MAG	MPPprobe
K17-437	65	0.13	MAG	MPPprobe
K17-437	65.5	0.15	MAG	MPPprobe
K17-437	66	0.24	MAG	MPPprobe
K17-437	66.5	0.17	MAG	MPPprobe
K17-437	67	0.11	MAG	MPPprobe
K17-437	67.5	0.04	MAG	MPPprobe
K17-437	68	0.04	MAG	MPPprobe
K17-437	68.5	0.11	MAG	MPPprobe
K17-437	69	0.07	MAG	MPPprobe
K17-437	69.5	0.26	MAG	MPPprobe
K17-437	70	0.17	MAG	MPPprobe
K17-437	70.5	0.09	MAG	MPPprobe
K17-437	71	0.09	MAG	MPPprobe
K17-437	71.5	0.06	MAG	MPPprobe
K17-437	72	0.07	MAG	MPPprobe
K17-437	72.5	0.07	MAG	MPPprobe
K17-437	73	0	MAG	MPPprobe
K17-437	73.5	0.11	MAG	MPPprobe
K17-437	74	0.07	MAG	MPPprobe
K17-437	74.5	0.06	MAG	MPPprobe
K17-437	75	0.06	MAG	MPPprobe
K17-437	75.5	0.13	MAG	MPPprobe
K17-437	76	0.11	MAG	MPPprobe
K17-437	76.5	0.07	MAG	MPPprobe
K17-437	77	0.09	MAG	MPPprobe
K17-437	77.5	0.13	MAG	MPPprobe
K17-437	78	0.11	MAG	MPPprobe
K17-437	78.5	0.15	MAG	MPPprobe
K17-437	79	0.15	MAG	MPPprobe
K17-437	79.5	0.17	MAG	MPPprobe
K17-437	80	0.09	MAG	MPPprobe
K17-437	80.5	0.09	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-437	81	0.06	MAG	MPPprobe
K17-437	81.5	0.09	MAG	MPPprobe
K17-437	82	0.06	MAG	MPPprobe
K17-437	82.5	0.15	MAG	MPPprobe
K17-437	83	0.06	MAG	MPPprobe
K17-437	83.5	0.07	MAG	MPPprobe
K17-437	84	0.06	MAG	MPPprobe
K17-437	84.5	0.13	MAG	MPPprobe
K17-437	85	0.28	MAG	MPPprobe
K17-437	85.5	0.06	MAG	MPPprobe
K17-437	86	0.06	MAG	MPPprobe
K17-437	86.5	0.21	MAG	MPPprobe
K17-437	88	0.19	MAG	MPPprobe
K17-437	88.5	0.04	MAG	MPPprobe
K17-437	89	0.04	MAG	MPPprobe
K17-437	89.5	0.04	MAG	MPPprobe
K17-437	90	0.06	MAG	MPPprobe
K17-437	90.5	0.06	MAG	MPPprobe
K17-437	91	0.11	MAG	MPPprobe
K17-437	91.5	0.13	MAG	MPPprobe
K17-437	92	0.07	MAG	MPPprobe
K17-437	93	0.09	MAG	MPPprobe
K17-437	94	0.11	MAG	MPPprobe
K17-437	94.5	0.06	MAG	MPPprobe
K17-437	95	0.04	MAG	MPPprobe
K17-437	95.5	0.07	MAG	MPPprobe
K17-437	96	0.02	MAG	MPPprobe
K17-437	96.5	0.11	MAG	MPPprobe
K17-437	98	0.07	MAG	MPPprobe
K17-437	98.5	0.06	MAG	MPPprobe
K17-437	99	0.04	MAG	MPPprobe
K17-437	99.5	0.04	MAG	MPPprobe
K17-437	100	0.04	MAG	MPPprobe
K17-437	100.5	0.06	MAG	MPPprobe
K17-437	101	0.13	MAG	MPPprobe
K17-437	101.5	0.09	MAG	MPPprobe
K17-437	102	0.09	MAG	MPPprobe
K17-437	102.5	0.13	MAG	MPPprobe
K17-437	103.5	0.07	MAG	MPPprobe
K17-437	104	0.07	MAG	MPPprobe
K17-437	104.5	0.06	MAG	MPPprobe
K17-437	105	0.07	MAG	MPPprobe
K17-437	105.5	0	MAG	MPPprobe
K17-437	106	0.13	MAG	MPPprobe
K17-437	106.5	0.06	MAG	MPPprobe
K17-437	107	0.04	MAG	MPPprobe
K17-437	107.5	0	MAG	MPPprobe
K17-437	108	0.17	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-437	108.5	0.09	MAG	MPPprobe
K17-437	109	0.04	MAG	MPPprobe
K17-437	109.5	0.06	MAG	MPPprobe
K17-437	110	0.04	MAG	MPPprobe
K17-437	110.5	0.17	MAG	MPPprobe
K17-437	111	0.02	MAG	MPPprobe
K17-437	113	0.17	MAG	MPPprobe
K17-437	113.5	0.09	MAG	MPPprobe
K17-437	114	0.17	MAG	MPPprobe
K17-437	114.5	0.06	MAG	MPPprobe
K17-437	115	0.09	MAG	MPPprobe
K17-437	115.5	0.06	MAG	MPPprobe
K17-437	116	0.22	MAG	MPPprobe
K17-437	116.5	0.37	MAG	MPPprobe
K17-437	117	0.17	MAG	MPPprobe
K17-437	117.5	0.09	MAG	MPPprobe
K17-437	118	0.17	MAG	MPPprobe
K17-437	118.5	0.26	MAG	MPPprobe
K17-437	119	0	MAG	MPPprobe
K17-437	119.5	0	MAG	MPPprobe
K17-437	120	0	MAG	MPPprobe
K17-437	120.5	0	MAG	MPPprobe
K17-437	121	0	MAG	MPPprobe
K17-437	121.5	0	MAG	MPPprobe
K17-437	122	0	MAG	MPPprobe
K17-437	122.5	0	MAG	MPPprobe
K17-437	123	0	MAG	MPPprobe
K17-437	123.5	0	MAG	MPPprobe
K17-437	124	0	MAG	MPPprobe
K17-437	124.5	0	MAG	MPPprobe
K17-437	125	0	MAG	MPPprobe
K17-437	125.5	0	MAG	MPPprobe
K17-437	126	0	MAG	MPPprobe
K17-437	126.5	0	MAG	MPPprobe
K17-437	127	0.13	MAG	MPPprobe
K17-437	127.5	0.43	MAG	MPPprobe
K17-437	128	0.02	MAG	MPPprobe
K17-437	128.5	0.15	MAG	MPPprobe
K17-437	129	0.17	MAG	MPPprobe
K17-437	129.5	0.06	MAG	MPPprobe
K17-437	130	0.04	MAG	MPPprobe
K17-437	130.5	0.09	MAG	MPPprobe
K17-437	131	0.09	MAG	MPPprobe
K17-437	131.5	0.26	MAG	MPPprobe
K17-437	132	1.63	MAG	MPPprobe
K17-437	132.5	0.97	MAG	MPPprobe
K17-437	133	0.81	MAG	MPPprobe
K17-437	133.5	2.68	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-437	134	0.52	MAG	MPPprobe
K17-437	134.5	5.02	MAG	MPPprobe
K17-437	135	1.65	MAG	MPPprobe
K17-437	135.5	5.81	MAG	MPPprobe
K17-437	136	0.36	MAG	MPPprobe
K17-437	136.5	1.72	MAG	MPPprobe
K17-437	137	0.28	MAG	MPPprobe
K17-437	137.5	0.17	MAG	MPPprobe
K17-437	138	0.09	MAG	MPPprobe
K17-437	138.5	0.13	MAG	MPPprobe
K17-437	139	0.07	MAG	MPPprobe
K17-437	139.5	0.15	MAG	MPPprobe
K17-437	140	0.81	MAG	MPPprobe
K17-437	140.5	0.24	MAG	MPPprobe
K17-437	141	0.36	MAG	MPPprobe
K17-437	141.5	0.34	MAG	MPPprobe
K17-437	142	0.47	MAG	MPPprobe
K17-437	142.5	0.11	MAG	MPPprobe
K17-437	143	1.84	MAG	MPPprobe
K17-437	143.5	1.84	MAG	MPPprobe
K17-437	144	0.32	MAG	MPPprobe
K17-437	144.5	0.67	MAG	MPPprobe
K17-437	145	0.36	MAG	MPPprobe
K17-437	145.5	0.37	MAG	MPPprobe
K17-437	146	0.84	MAG	MPPprobe
K17-437	146.5	0.3	MAG	MPPprobe
K17-437	147	1.26	MAG	MPPprobe
K17-437	147.5	0.86	MAG	MPPprobe
K17-437	148	0.24	MAG	MPPprobe
K17-437	148.5	0.43	MAG	MPPprobe
K17-437	149	0.23	MAG	MPPprobe
K17-437	149.5	0.17	MAG	MPPprobe
K17-437	150	0.32	MAG	MPPprobe
K17-437	150.5	0.38	MAG	MPPprobe
K17-437	151	0.43	MAG	MPPprobe
K17-437	151.5	0.09	MAG	MPPprobe
K17-437	152	0.23	MAG	MPPprobe
K17-441	6.5	0.22	MAG	MPPprobe
K17-441	7	0.11	MAG	MPPprobe
K17-441	7.5	0.17	MAG	MPPprobe
K17-441	8	0.11	MAG	MPPprobe
K17-441	8.5	0.15	MAG	MPPprobe
K17-441	9	0.17	MAG	MPPprobe
K17-441	9.5	0.15	MAG	MPPprobe
K17-441	10	0.21	MAG	MPPprobe
K17-441	10.5	0.37	MAG	MPPprobe
K17-441	11	0.71	MAG	MPPprobe
K17-441	11.5	0.52	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-441	12	0.79	MAG	MPPprobe
K17-441	12.5	0.77	MAG	MPPprobe
K17-441	13	0.26	MAG	MPPprobe
K17-441	13.5	0.24	MAG	MPPprobe
K17-441	14	0.24	MAG	MPPprobe
K17-441	14.5	0.09	MAG	MPPprobe
K17-441	15	0.19	MAG	MPPprobe
K17-441	15.5	0.07	MAG	MPPprobe
K17-441	16	0.13	MAG	MPPprobe
K17-441	16.5	3.09	MAG	MPPprobe
K17-441	17	0.86	MAG	MPPprobe
K17-441	17.5	0.6	MAG	MPPprobe
K17-441	18	1.69	MAG	MPPprobe
K17-441	18.5	0.13	MAG	MPPprobe
K17-441	19	0.99	MAG	MPPprobe
K17-441	19.5	0.24	MAG	MPPprobe
K17-441	20	1.74	MAG	MPPprobe
K17-441	20.5	0.34	MAG	MPPprobe
K17-441	21	0.43	MAG	MPPprobe
K17-441	21.5	0.56	MAG	MPPprobe
K17-441	22	1.24	MAG	MPPprobe
K17-441	22.5	0.21	MAG	MPPprobe
K17-441	23	0.11	MAG	MPPprobe
K17-441	23.5	0.49	MAG	MPPprobe
K17-441	24	0.43	MAG	MPPprobe
K17-441	24.5	0.73	MAG	MPPprobe
K17-441	25	0.71	MAG	MPPprobe
K17-441	25.5	0.9	MAG	MPPprobe
K17-441	26	0.52	MAG	MPPprobe
K17-441	26.5	0.04	MAG	MPPprobe
K17-441	27	0.88	MAG	MPPprobe
K17-441	27.5	0.82	MAG	MPPprobe
K17-441	28	0.81	MAG	MPPprobe
K17-441	28.5	0.13	MAG	MPPprobe
K17-441	29	0.17	MAG	MPPprobe
K17-441	29.5	0.13	MAG	MPPprobe
K17-441	30	0.49	MAG	MPPprobe
K17-441	30.5	0.15	MAG	MPPprobe
K17-441	31	0.39	MAG	MPPprobe
K17-441	31.5	0.17	MAG	MPPprobe
K17-441	32	0.17	MAG	MPPprobe
K17-441	32.5	0.71	MAG	MPPprobe
K17-441	35	1.11	MAG	MPPprobe
K17-441	35.5	0.58	MAG	MPPprobe
K17-441	36	1.59	MAG	MPPprobe
K17-441	36.5	0.45	MAG	MPPprobe
K17-441	37	0.26	MAG	MPPprobe
K17-441	37.5	1.2	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-441	38	0.47	MAG	MPPprobe
K17-441	38.5	1.33	MAG	MPPprobe
K17-441	39	0.81	MAG	MPPprobe
K17-441	39.5	0.94	MAG	MPPprobe
K17-441	40	1.01	MAG	MPPprobe
K17-442	4	0.28	MAG	MPPprobe
K17-442	4.5	0.17	MAG	MPPprobe
K17-442	5	0.71	MAG	MPPprobe
K17-442	5.5	0.37	MAG	MPPprobe
K17-442	6	0.28	MAG	MPPprobe
K17-442	6.5	0.21	MAG	MPPprobe
K17-442	7	0.81	MAG	MPPprobe
K17-442	7.5	0.24	MAG	MPPprobe
K17-442	8	0.3	MAG	MPPprobe
K17-442	8.5	0.32	MAG	MPPprobe
K17-442	9	0.37	MAG	MPPprobe
K17-442	9.5	0.88	MAG	MPPprobe
K17-442	10	0.21	MAG	MPPprobe
K17-442	10.5	0.96	MAG	MPPprobe
K17-442	11	0.21	MAG	MPPprobe
K17-442	11.5	0.21	MAG	MPPprobe
K17-442	12	0.94	MAG	MPPprobe
K17-442	12.5	0.26	MAG	MPPprobe
K17-442	13	1.44	MAG	MPPprobe
K17-442	13.5	0.69	MAG	MPPprobe
K17-442	14	0.49	MAG	MPPprobe
K17-442	14.5	0.15	MAG	MPPprobe
K17-442	15	0.49	MAG	MPPprobe
K17-442	15.5	0.37	MAG	MPPprobe
K17-442	16	0.36	MAG	MPPprobe
K17-442	16.5	0.39	MAG	MPPprobe
K17-442	17	0.37	MAG	MPPprobe
K17-442	17.5	0.77	MAG	MPPprobe
K17-442	18	1.29	MAG	MPPprobe
K17-442	18.5	0.75	MAG	MPPprobe
K17-442	19	0.43	MAG	MPPprobe
K17-442	19.5	10.5	MAG	MPPprobe
K17-442	20	0.41	MAG	MPPprobe
K17-442	20.5	2.08	MAG	MPPprobe
K17-442	21	2.36	MAG	MPPprobe
K17-442	21.5	0.07	MAG	MPPprobe
K17-442	22	0.62	MAG	MPPprobe
K17-442	22.5	0.37	MAG	MPPprobe
K17-442	23	0.24	MAG	MPPprobe
K17-442	23.5	0.19	MAG	MPPprobe
K17-442	24	0.21	MAG	MPPprobe
K17-442	24.5	0.26	MAG	MPPprobe
K17-442	25	0.19	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-442	25.5	0.45	MAG	MPPprobe
K17-442	26	1.16	MAG	MPPprobe
K17-442	26.5	1.56	MAG	MPPprobe
K17-442	27	0.17	MAG	MPPprobe
K17-442	27.5	0.41	MAG	MPPprobe
K17-442	28	1.39	MAG	MPPprobe
K17-442	28.5	0.3	MAG	MPPprobe
K17-442	29	0.54	MAG	MPPprobe
K17-442	29.5	0.13	MAG	MPPprobe
K17-442	30	1.07	MAG	MPPprobe
K17-442	30.5	0.34	MAG	MPPprobe
K17-442	31	0.21	MAG	MPPprobe
K17-442	31.5	0.67	MAG	MPPprobe
K17-442	32	0.15	MAG	MPPprobe
K17-442	32.5	0.26	MAG	MPPprobe
K17-442	33	0.15	MAG	MPPprobe
K17-442	33.5	0.11	MAG	MPPprobe
K17-442	34	0.17	MAG	MPPprobe
K17-442	34.5	0.19	MAG	MPPprobe
K17-442	35	0.19	MAG	MPPprobe
K17-442	35.5	0.13	MAG	MPPprobe
K17-442	36	0.13	MAG	MPPprobe
K17-442	36.5	0.34	MAG	MPPprobe
K17-442	37	0.39	MAG	MPPprobe
K17-442	38	0.3	MAG	MPPprobe
K17-442	38.5	0.19	MAG	MPPprobe
K17-442	39	0.79	MAG	MPPprobe
K17-442	39.5	0.54	MAG	MPPprobe
K17-442	39.92	0.06	MAG	MPPprobe
K17-443	7.5	3.22	MAG	MPPprobe
K17-443	8	1.36	MAG	MPPprobe
K17-443	8.5	0.72	MAG	MPPprobe
K17-443	9	1.21	MAG	MPPprobe
K17-443	9.5	0.56	MAG	MPPprobe
K17-443	10	0.34	MAG	MPPprobe
K17-443	10.5	0.23	MAG	MPPprobe
K17-443	11	0.36	MAG	MPPprobe
K17-443	11.5	1.07	MAG	MPPprobe
K17-443	12	0.48	MAG	MPPprobe
K17-443	12.5	0.74	MAG	MPPprobe
K17-443	13	0.57	MAG	MPPprobe
K17-443	13.5	0.51	MAG	MPPprobe
K17-443	14	0.85	MAG	MPPprobe
K17-443	14.5	1.41	MAG	MPPprobe
K17-443	15	0.76	MAG	MPPprobe
K17-443	15.5	0.71	MAG	MPPprobe
K17-443	16	0.66	MAG	MPPprobe
K17-443	16.5	0.43	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-443	17	0.21	MAG	MPPprobe
K17-443	17.5	0.38	MAG	MPPprobe
K17-443	18	0.57	MAG	MPPprobe
K17-443	18.5	1	MAG	MPPprobe
K17-443	19	1.59	MAG	MPPprobe
K17-443	19.5	1.81	MAG	MPPprobe
K17-443	20	0.69	MAG	MPPprobe
K17-443	20.5	0.67	MAG	MPPprobe
K17-443	21	0.44	MAG	MPPprobe
K17-443	21.5	1	MAG	MPPprobe
K17-443	22	0.28	MAG	MPPprobe
K17-443	22.5	1.89	MAG	MPPprobe
K17-443	23	0.84	MAG	MPPprobe
K17-443	23.5	0.13	MAG	MPPprobe
K17-443	24	0.1	MAG	MPPprobe
K17-443	24.5	0.57	MAG	MPPprobe
K17-443	25	1.69	MAG	MPPprobe
K17-443	25.5	2.1	MAG	MPPprobe
K17-443	26	1.64	MAG	MPPprobe
K17-443	26.5	0.51	MAG	MPPprobe
K17-443	27	0.49	MAG	MPPprobe
K17-443	27.5	1.23	MAG	MPPprobe
K17-443	28	0.46	MAG	MPPprobe
K17-443	28.5	0.33	MAG	MPPprobe
K17-443	29	0.85	MAG	MPPprobe
K17-443	29.5	0.18	MAG	MPPprobe
K17-443	30	1.2	MAG	MPPprobe
K17-443	30.5	1.08	MAG	MPPprobe
K17-443	31	0.54	MAG	MPPprobe
K17-443	31.5	0.85	MAG	MPPprobe
K17-443	32	0.31	MAG	MPPprobe
K17-443	32.5	0.57	MAG	MPPprobe
K17-443	33	0.41	MAG	MPPprobe
K17-443	33.5	0.77	MAG	MPPprobe
K17-443	34	0.48	MAG	MPPprobe
K17-443	34.5	0.71	MAG	MPPprobe
K17-443	35	0.46	MAG	MPPprobe
K17-443	35.5	0.03	MAG	MPPprobe
K17-443	36	0.66	MAG	MPPprobe
K17-443	36.5	1.28	MAG	MPPprobe
K17-443	37	1.28	MAG	MPPprobe
K17-443	37.5	0.54	MAG	MPPprobe
K17-443	38	0.72	MAG	MPPprobe
K17-443	38.5	0.67	MAG	MPPprobe
K17-444	13.5	0.36	MAG	MPPprobe
K17-444	14	0.3	MAG	MPPprobe
K17-444	14.5	0.51	MAG	MPPprobe
K17-444	15	1.07	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-444	15.5	0.22	MAG	MPPprobe
K17-444	16	0.41	MAG	MPPprobe
K17-444	16.5	0.32	MAG	MPPprobe
K17-444	17	0.19	MAG	MPPprobe
K17-444	17.5	0.11	MAG	MPPprobe
K17-444	18	1.16	MAG	MPPprobe
K17-444	18.5	0.36	MAG	MPPprobe
K17-444	19	0.17	MAG	MPPprobe
K17-444	19.5	0.15	MAG	MPPprobe
K17-444	20	1.63	MAG	MPPprobe
K17-444	20.5	0.69	MAG	MPPprobe
K17-444	21	1.05	MAG	MPPprobe
K17-444	21.5	0.84	MAG	MPPprobe
K17-444	22	1.2	MAG	MPPprobe
K17-444	22.5	0.79	MAG	MPPprobe
K17-444	23	2.64	MAG	MPPprobe
K17-444	23.5	0.32	MAG	MPPprobe
K17-444	24	0.64	MAG	MPPprobe
K17-444	24.5	0.97	MAG	MPPprobe
K17-444	25	1.1	MAG	MPPprobe
K17-444	25.5	1.18	MAG	MPPprobe
K17-444	26	0.28	MAG	MPPprobe
K17-444	26.5	0.19	MAG	MPPprobe
K17-444	27	0.3	MAG	MPPprobe
K17-444	27.5	0.56	MAG	MPPprobe
K17-444	28	0.99	MAG	MPPprobe
K17-444	28.5	0.49	MAG	MPPprobe
K17-444	29	0.36	MAG	MPPprobe
K17-444	29.5	0.21	MAG	MPPprobe
K17-444	30	1.2	MAG	MPPprobe
K17-444	30.5	1.01	MAG	MPPprobe
K17-444	31	1.82	MAG	MPPprobe
K17-444	31.5	1.46	MAG	MPPprobe
K17-444	32	0.75	MAG	MPPprobe
K17-444	32.5	1.07	MAG	MPPprobe
K17-444	33	0.8	MAG	MPPprobe
K17-444	33.5	0.45	MAG	MPPprobe
K17-444	34	0.77	MAG	MPPprobe
K17-444	34.5	0.34	MAG	MPPprobe
K17-444	35	0.37	MAG	MPPprobe
K17-444	35.5	1.01	MAG	MPPprobe
K17-444	36	0.51	MAG	MPPprobe
K17-444	36.5	1.29	MAG	MPPprobe
K17-444	37	1.57	MAG	MPPprobe
K17-444	37.5	0.3	MAG	MPPprobe
K17-444	38	0.22	MAG	MPPprobe
K17-444	38.5	0.99	MAG	MPPprobe
K17-444	39	0.62	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-444	39.5	0.95	MAG	MPPprobe
K17-444	40	0.41	MAG	MPPprobe
K17-444	40.5	1.44	MAG	MPPprobe
K17-444	41	1.12	MAG	MPPprobe
K17-444	41.5	0.88	MAG	MPPprobe
K17-444	42	0.34	MAG	MPPprobe
K17-444	42.5	0.51	MAG	MPPprobe
K17-444	43	0.22	MAG	MPPprobe
K17-444	43.5	0.36	MAG	MPPprobe
K17-445	11	0.44	MAG	MPPprobe
K17-445	11.5	0.39	MAG	MPPprobe
K17-445	12	0.43	MAG	MPPprobe
K17-445	12.5	0.89	MAG	MPPprobe
K17-445	13	0.23	MAG	MPPprobe
K17-445	13.5	0.61	MAG	MPPprobe
K17-445	14	0.41	MAG	MPPprobe
K17-445	14.5	0.62	MAG	MPPprobe
K17-445	15	0.54	MAG	MPPprobe
K17-445	15.5	0.49	MAG	MPPprobe
K17-445	16	0.61	MAG	MPPprobe
K17-445	16.5	0.38	MAG	MPPprobe
K17-445	17	0.59	MAG	MPPprobe
K17-445	17.5	0.3	MAG	MPPprobe
K17-445	18	0.31	MAG	MPPprobe
K17-445	18.5	0.35	MAG	MPPprobe
K17-445	19	0.21	MAG	MPPprobe
K17-445	19.5	0.26	MAG	MPPprobe
K17-445	20	1.51	MAG	MPPprobe
K17-445	20.5	0.49	MAG	MPPprobe
K17-445	21	0.59	MAG	MPPprobe
K17-445	21.5	0.26	MAG	MPPprobe
K17-445	22	0.3	MAG	MPPprobe
K17-445	22.5	0	MAG	MPPprobe
K17-445	23	1.13	MAG	MPPprobe
K17-445	23.5	1.15	MAG	MPPprobe
K17-445	24	0.64	MAG	MPPprobe
K17-445	24.5	1.71	MAG	MPPprobe
K17-445	25	1.51	MAG	MPPprobe
K17-445	25.5	0.2	MAG	MPPprobe
K17-445	26	1.61	MAG	MPPprobe
K17-445	26.5	1.53	MAG	MPPprobe
K17-445	27	0.74	MAG	MPPprobe
K17-445	27.5	1.94	MAG	MPPprobe
K17-445	28	0.15	MAG	MPPprobe
K17-445	28.5	0.16	MAG	MPPprobe
K17-445	29	0	MAG	MPPprobe
K17-445	29.5	0	MAG	MPPprobe
K17-445	30	0.28	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-445	30.5	0.08	MAG	MPPprobe
K17-445	31	0.38	MAG	MPPprobe
K17-445	31.5	0.25	MAG	MPPprobe
K17-445	32	1.41	MAG	MPPprobe
K17-445	32.5	0.56	MAG	MPPprobe
K17-445	33	0.87	MAG	MPPprobe
K17-445	33.5	1.46	MAG	MPPprobe
K17-445	34	0.64	MAG	MPPprobe
K17-445	34.5	0.46	MAG	MPPprobe
K17-445	35	1.22	MAG	MPPprobe
K17-445	35.5	0.58	MAG	MPPprobe
K17-445	36	1.48	MAG	MPPprobe
K17-445	36.5	0.54	MAG	MPPprobe
K17-445	37	0.94	MAG	MPPprobe
K17-445	37.5	0.87	MAG	MPPprobe
K17-445	38	1.17	MAG	MPPprobe
K17-445	38.5	0.64	MAG	MPPprobe
K17-445	39	1.02	MAG	MPPprobe
K17-445	39.5	0.95	MAG	MPPprobe
K17-445	40	0.33	MAG	MPPprobe
K17-445	40.5	0.46	MAG	MPPprobe
K17-445	41	0.39	MAG	MPPprobe
K17-446	7.5	0.36	MAG	MPPprobe
K17-446	8	0.58	MAG	MPPprobe
K17-446	8.5	0.3	MAG	MPPprobe
K17-446	9	0.41	MAG	MPPprobe
K17-446	9.5	0.43	MAG	MPPprobe
K17-446	10	0.49	MAG	MPPprobe
K17-446	10.5	0.41	MAG	MPPprobe
K17-446	11	0.41	MAG	MPPprobe
K17-446	11.5	0.75	MAG	MPPprobe
K17-446	12	0.47	MAG	MPPprobe
K17-446	12.5	0.21	MAG	MPPprobe
K17-446	13	0.37	MAG	MPPprobe
K17-446	13.5	0.67	MAG	MPPprobe
K17-446	14	1.14	MAG	MPPprobe
K17-446	14.5	0.62	MAG	MPPprobe
K17-446	15	0.28	MAG	MPPprobe
K17-446	15.5	0.37	MAG	MPPprobe
K17-446	16	1.92	MAG	MPPprobe
K17-446	16.5	0.84	MAG	MPPprobe
K17-446	17	0.56	MAG	MPPprobe
K17-446	17.5	1.16	MAG	MPPprobe
K17-446	18	1.5	MAG	MPPprobe
K17-446	18.5	1.64	MAG	MPPprobe
K17-446	19	1.42	MAG	MPPprobe
K17-446	19.5	1.25	MAG	MPPprobe
K17-446	20	1.01	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-446	20.5	1.4	MAG	MPPprobe
K17-446	21	6.13	MAG	MPPprobe
K17-446	21.5	2.58	MAG	MPPprobe
K17-446	22	2.07	MAG	MPPprobe
K17-446	22.5	1.4	MAG	MPPprobe
K17-446	23	2.8	MAG	MPPprobe
K17-446	23.5	2.26	MAG	MPPprobe
K17-446	24	0.28	MAG	MPPprobe
K17-446	24.5	0.37	MAG	MPPprobe
K17-446	25	0.45	MAG	MPPprobe
K17-446	25.5	0.34	MAG	MPPprobe
K17-446	26	0.43	MAG	MPPprobe
K17-446	26.5	0.22	MAG	MPPprobe
K17-446	27	0.65	MAG	MPPprobe
K17-446	27.5	1.01	MAG	MPPprobe
K17-446	28	1.01	MAG	MPPprobe
K17-446	28.5	1.33	MAG	MPPprobe
K17-446	29	0.28	MAG	MPPprobe
K17-446	29.5	1.57	MAG	MPPprobe
K17-446	30	0.84	MAG	MPPprobe
K17-446	30.5	1.08	MAG	MPPprobe
K17-446	31	0.93	MAG	MPPprobe
K17-446	31.5	0.67	MAG	MPPprobe
K17-446	32	0.34	MAG	MPPprobe
K17-446	32.5	0.88	MAG	MPPprobe
K17-446	33	0.21	MAG	MPPprobe
K17-446	33.5	0.26	MAG	MPPprobe
K17-446	34	0.75	MAG	MPPprobe
K17-446	34.5	1.53	MAG	MPPprobe
K17-446	35	0.36	MAG	MPPprobe
K17-446	35.5	0.79	MAG	MPPprobe
K17-446	36	0.41	MAG	MPPprobe
K17-446	36.5	2.58	MAG	MPPprobe
K17-446	37	0.36	MAG	MPPprobe
K17-446	37.5	0.24	MAG	MPPprobe
K17-446	38	1.81	MAG	MPPprobe
K17-446	38.5	0.95	MAG	MPPprobe
K17-446	39	1.78	MAG	MPPprobe
K17-446	39.5	0.5	MAG	MPPprobe
K17-447	10	0.45	MAG	MPPprobe
K17-447	10.5	1.16	MAG	MPPprobe
K17-447	11	1.83	MAG	MPPprobe
K17-447	11.5	0.09	MAG	MPPprobe
K17-447	12	0.71	MAG	MPPprobe
K17-447	12.5	0.43	MAG	MPPprobe
K17-447	13	0.28	MAG	MPPprobe
K17-447	13.5	0.17	MAG	MPPprobe
K17-447	14	0.9	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	14.5	0.77	MAG	MPPprobe
K17-447	15	1.12	MAG	MPPprobe
K17-447	15.5	1.1	MAG	MPPprobe
K17-447	16	1.52	MAG	MPPprobe
K17-447	16.5	0.73	MAG	MPPprobe
K17-447	17	0.36	MAG	MPPprobe
K17-447	17.5	0.34	MAG	MPPprobe
K17-447	18	0.32	MAG	MPPprobe
K17-447	18.5	0.24	MAG	MPPprobe
K17-447	19	0.47	MAG	MPPprobe
K17-447	19.5	0.21	MAG	MPPprobe
K17-447	20	0.24	MAG	MPPprobe
K17-447	20.5	0.26	MAG	MPPprobe
K17-447	21	1.68	MAG	MPPprobe
K17-447	21.5	6.61	MAG	MPPprobe
K17-447	22	17.2	MAG	MPPprobe
K17-447	22.5	0.28	MAG	MPPprobe
K17-447	23	0.67	MAG	MPPprobe
K17-447	23.5	0.28	MAG	MPPprobe
K17-447	24	0.28	MAG	MPPprobe
K17-447	24.5	0.3	MAG	MPPprobe
K17-447	25	1.18	MAG	MPPprobe
K17-447	25.5	0.3	MAG	MPPprobe
K17-447	26	0.21	MAG	MPPprobe
K17-447	26.5	0.41	MAG	MPPprobe
K17-447	27	0.82	MAG	MPPprobe
K17-447	27.5	0.24	MAG	MPPprobe
K17-447	28	0.28	MAG	MPPprobe
K17-447	28.5	0.21	MAG	MPPprobe
K17-447	29	0.45	MAG	MPPprobe
K17-447	29.5	0.32	MAG	MPPprobe
K17-447	30	0.36	MAG	MPPprobe
K17-447	30.5	0.19	MAG	MPPprobe
K17-447	31	0.3	MAG	MPPprobe
K17-447	31.5	0.41	MAG	MPPprobe
K17-447	32	0.28	MAG	MPPprobe
K17-447	32.5	0.32	MAG	MPPprobe
K17-447	33	0.3	MAG	MPPprobe
K17-447	33.5	1.22	MAG	MPPprobe
K17-447	34	1.89	MAG	MPPprobe
K17-447	34.5	3.22	MAG	MPPprobe
K17-447	35	2.62	MAG	MPPprobe
K17-447	35.5	0.82	MAG	MPPprobe
K17-447	36	0.39	MAG	MPPprobe
K17-447	36.5	0.45	MAG	MPPprobe
K17-447	37	0.41	MAG	MPPprobe
K17-447	37.5	0.21	MAG	MPPprobe
K17-447	38	0.34	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	38.5	0.26	MAG	MPPprobe
K17-447	39	0.39	MAG	MPPprobe
K17-447	39.5	0.24	MAG	MPPprobe
K17-447	40	0.26	MAG	MPPprobe
K17-447	40.5	0.34	MAG	MPPprobe
K17-447	41	0.77	MAG	MPPprobe
K17-447	41.5	0.37	MAG	MPPprobe
K17-447	42	0.45	MAG	MPPprobe
K17-447	42.5	0.52	MAG	MPPprobe
K17-447	43	0.51	MAG	MPPprobe
K17-447	43.5	0.43	MAG	MPPprobe
K17-447	44	0.3	MAG	MPPprobe
K17-447	44.5	0.54	MAG	MPPprobe
K17-447	45	0.64	MAG	MPPprobe
K17-447	45.5	1.05	MAG	MPPprobe
K17-447	46	0.71	MAG	MPPprobe
K17-447	46.5	0.22	MAG	MPPprobe
K17-447	47	1.93	MAG	MPPprobe
K17-447	47.5	0.17	MAG	MPPprobe
K17-447	48	1.91	MAG	MPPprobe
K17-447	48.5	2.49	MAG	MPPprobe
K17-447	49	0.3	MAG	MPPprobe
K17-447	49.5	0.34	MAG	MPPprobe
K17-447	50	0.79	MAG	MPPprobe
K17-447	50.5	24.6	MAG	MPPprobe
K17-447	51	21.4	MAG	MPPprobe
K17-447	51.5	0.6	MAG	MPPprobe
K17-447	52	4.94	MAG	MPPprobe
K17-447	52.5	2.28	MAG	MPPprobe
K17-447	53	0.62	MAG	MPPprobe
K17-447	53.5	1.05	MAG	MPPprobe
K17-447	54	0.13	MAG	MPPprobe
K17-447	54.5	3.82	MAG	MPPprobe
K17-447	55	2.57	MAG	MPPprobe
K17-447	55.5	2.13	MAG	MPPprobe
K17-447	56	2.43	MAG	MPPprobe
K17-447	56.5	4.42	MAG	MPPprobe
K17-447	57	3.45	MAG	MPPprobe
K17-447	57.5	0.24	MAG	MPPprobe
K17-447	58	0.3	MAG	MPPprobe
K17-447	58.5	5.94	MAG	MPPprobe
K17-447	59	5.94	MAG	MPPprobe
K17-447	59.5	6.37	MAG	MPPprobe
K17-447	60	0.77	MAG	MPPprobe
K17-447	60.5	1.74	MAG	MPPprobe
K17-447	61	7.64	MAG	MPPprobe
K17-447	61.5	2.21	MAG	MPPprobe
K17-447	62	1.93	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	62.5	1.63	MAG	MPPprobe
K17-447	63	2.23	MAG	MPPprobe
K17-447	63.5	1.09	MAG	MPPprobe
K17-447	64	0.71	MAG	MPPprobe
K17-447	64.5	3.39	MAG	MPPprobe
K17-447	65	0.96	MAG	MPPprobe
K17-447	65.5	3.82	MAG	MPPprobe
K17-447	66	4.46	MAG	MPPprobe
K17-447	66.5	1.5	MAG	MPPprobe
K17-447	67	1.87	MAG	MPPprobe
K17-447	67.5	0.82	MAG	MPPprobe
K17-447	68	0.96	MAG	MPPprobe
K17-447	68.5	0.79	MAG	MPPprobe
K17-447	69	0.97	MAG	MPPprobe
K17-447	69.5	0.41	MAG	MPPprobe
K17-447	70	0.36	MAG	MPPprobe
K17-447	70.5	0.66	MAG	MPPprobe
K17-447	71	0.34	MAG	MPPprobe
K17-447	71.5	0.11	MAG	MPPprobe
K17-447	72	0.34	MAG	MPPprobe
K17-447	72.5	0.47	MAG	MPPprobe
K17-447	73	0.36	MAG	MPPprobe
K17-447	73.5	0.28	MAG	MPPprobe
K17-447	74	0.58	MAG	MPPprobe
K17-447	74.5	0.34	MAG	MPPprobe
K17-447	75	0.64	MAG	MPPprobe
K17-447	75.5	0.47	MAG	MPPprobe
K17-447	76	1.01	MAG	MPPprobe
K17-447	76.5	0.37	MAG	MPPprobe
K17-447	77	0.56	MAG	MPPprobe
K17-447	77.5	0.51	MAG	MPPprobe
K17-447	78	0.56	MAG	MPPprobe
K17-447	78.5	0.39	MAG	MPPprobe
K17-447	79	0.39	MAG	MPPprobe
K17-447	79.5	0.17	MAG	MPPprobe
K17-447	80	2.15	MAG	MPPprobe
K17-447	80.5	0.79	MAG	MPPprobe
K17-447	81	0.13	MAG	MPPprobe
K17-447	81.5	0.36	MAG	MPPprobe
K17-447	82	0.21	MAG	MPPprobe
K17-447	82.5	0.28	MAG	MPPprobe
K17-447	83	0.17	MAG	MPPprobe
K17-447	83.5	0.09	MAG	MPPprobe
K17-447	84	0.39	MAG	MPPprobe
K17-447	84.5	0.22	MAG	MPPprobe
K17-447	85	0.3	MAG	MPPprobe
K17-447	85.5	0.22	MAG	MPPprobe
K17-447	86	0.54	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	86.5	8.54	MAG	MPPprobe
K17-447	87	2.79	MAG	MPPprobe
K17-447	87.5	2.43	MAG	MPPprobe
K17-447	88	7.53	MAG	MPPprobe
K17-447	88.5	1.22	MAG	MPPprobe
K17-447	89	0.71	MAG	MPPprobe
K17-447	89.5	0.62	MAG	MPPprobe
K17-447	90	0.28	MAG	MPPprobe
K17-447	90.5	0.77	MAG	MPPprobe
K17-447	91	0.9	MAG	MPPprobe
K17-447	91.5	0.39	MAG	MPPprobe
K17-447	92	0.32	MAG	MPPprobe
K17-447	92.5	2.76	MAG	MPPprobe
K17-447	93	0.21	MAG	MPPprobe
K17-447	93.5	4.59	MAG	MPPprobe
K17-447	94	5.74	MAG	MPPprobe
K17-447	94.5	6.09	MAG	MPPprobe
K17-447	95	25	MAG	MPPprobe
K17-447	95.5	8.42	MAG	MPPprobe
K17-447	96	17	MAG	MPPprobe
K17-447	96.5	1	MAG	MPPprobe
K17-447	97	0	MAG	MPPprobe
K17-447	97.5	2.24	MAG	MPPprobe
K17-447	98	0.23	MAG	MPPprobe
K17-447	98.5	0	MAG	MPPprobe
K17-447	99	0	MAG	MPPprobe
K17-447	99.5	0	MAG	MPPprobe
K17-447	100	0	MAG	MPPprobe
K17-447	100.5	0	MAG	MPPprobe
K17-447	101	0	MAG	MPPprobe
K17-447	101.5	0.12	MAG	MPPprobe
K17-447	102	0	MAG	MPPprobe
K17-447	102.5	0	MAG	MPPprobe
K17-447	103	0	MAG	MPPprobe
K17-447	103.5	2.24	MAG	MPPprobe
K17-447	104	0	MAG	MPPprobe
K17-447	104.5	0	MAG	MPPprobe
K17-447	105	0	MAG	MPPprobe
K17-447	105.5	0	MAG	MPPprobe
K17-447	106	0	MAG	MPPprobe
K17-447	106.5	0	MAG	MPPprobe
K17-447	107	0	MAG	MPPprobe
K17-447	107.5	0	MAG	MPPprobe
K17-447	108	0.02	MAG	MPPprobe
K17-447	108.5	0	MAG	MPPprobe
K17-447	109	0	MAG	MPPprobe
K17-447	109.5	0	MAG	MPPprobe
K17-447	110	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	110.5	0.21	MAG	MPPprobe
K17-447	111	0	MAG	MPPprobe
K17-447	111.5	0.48	MAG	MPPprobe
K17-447	112	0	MAG	MPPprobe
K17-447	112.5	0	MAG	MPPprobe
K17-447	113	0.23	MAG	MPPprobe
K17-447	113.5	0.02	MAG	MPPprobe
K17-447	114	0.23	MAG	MPPprobe
K17-447	114.5	0	MAG	MPPprobe
K17-447	115	0	MAG	MPPprobe
K17-447	115.5	0	MAG	MPPprobe
K17-447	116	0	MAG	MPPprobe
K17-447	116.5	0	MAG	MPPprobe
K17-447	117	0	MAG	MPPprobe
K17-447	117.5	0	MAG	MPPprobe
K17-447	118	0	MAG	MPPprobe
K17-447	118.5	0	MAG	MPPprobe
K17-447	119	0	MAG	MPPprobe
K17-447	119.5	0	MAG	MPPprobe
K17-447	120	0	MAG	MPPprobe
K17-447	120.5	0	MAG	MPPprobe
K17-447	121	0	MAG	MPPprobe
K17-447	121.5	0	MAG	MPPprobe
K17-447	122	0.71	MAG	MPPprobe
K17-447	122.5	0.77	MAG	MPPprobe
K17-447	123	0.48	MAG	MPPprobe
K17-447	123.5	0	MAG	MPPprobe
K17-447	124	1.62	MAG	MPPprobe
K17-447	124.5	2.41	MAG	MPPprobe
K17-447	125	0	MAG	MPPprobe
K17-447	125.5	0	MAG	MPPprobe
K17-447	126	0	MAG	MPPprobe
K17-447	126.5	0	MAG	MPPprobe
K17-447	127	0.27	MAG	MPPprobe
K17-447	127.5	0	MAG	MPPprobe
K17-447	128	0	MAG	MPPprobe
K17-447	128.5	0	MAG	MPPprobe
K17-447	129	0	MAG	MPPprobe
K17-447	129.5	0.25	MAG	MPPprobe
K17-447	130	1.39	MAG	MPPprobe
K17-447	130.5	0	MAG	MPPprobe
K17-447	131	0	MAG	MPPprobe
K17-447	131.5	0	MAG	MPPprobe
K17-447	132	0	MAG	MPPprobe
K17-447	132.5	0	MAG	MPPprobe
K17-447	133	0	MAG	MPPprobe
K17-447	133.5	0	MAG	MPPprobe
K17-447	134	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	134.5	0	MAG	MPPprobe
K17-447	135	0	MAG	MPPprobe
K17-447	135.5	0	MAG	MPPprobe
K17-447	136	0.12	MAG	MPPprobe
K17-447	136.5	0	MAG	MPPprobe
K17-447	137	0	MAG	MPPprobe
K17-447	137.5	0	MAG	MPPprobe
K17-447	138	0	MAG	MPPprobe
K17-447	138.5	0	MAG	MPPprobe
K17-447	139	0	MAG	MPPprobe
K17-447	139.5	0	MAG	MPPprobe
K17-447	140	0	MAG	MPPprobe
K17-447	140.5	0	MAG	MPPprobe
K17-447	141	0	MAG	MPPprobe
K17-447	141.5	0	MAG	MPPprobe
K17-447	142	0	MAG	MPPprobe
K17-447	142.5	0	MAG	MPPprobe
K17-447	143	0	MAG	MPPprobe
K17-447	143.5	0	MAG	MPPprobe
K17-447	144	0	MAG	MPPprobe
K17-447	144.5	0	MAG	MPPprobe
K17-447	145	0	MAG	MPPprobe
K17-447	145.5	0	MAG	MPPprobe
K17-447	146	2.03	MAG	MPPprobe
K17-447	146.5	0	MAG	MPPprobe
K17-447	147	0	MAG	MPPprobe
K17-447	147.5	0	MAG	MPPprobe
K17-447	148	0	MAG	MPPprobe
K17-447	148.5	0	MAG	MPPprobe
K17-447	149	0.39	MAG	MPPprobe
K17-447	149.5	5	MAG	MPPprobe
K17-447	150	0.27	MAG	MPPprobe
K17-447	150.5	1.81	MAG	MPPprobe
K17-447	151	6.02	MAG	MPPprobe
K17-447	151.5	0	MAG	MPPprobe
K17-447	152	0.08	MAG	MPPprobe
K17-447	152.5	0	MAG	MPPprobe
K17-447	153	0	MAG	MPPprobe
K17-447	153.5	0	MAG	MPPprobe
K17-447	154	0	MAG	MPPprobe
K17-447	154.5	0	MAG	MPPprobe
K17-447	155	0	MAG	MPPprobe
K17-447	155.5	0.66	MAG	MPPprobe
K17-447	156	0.64	MAG	MPPprobe
K17-447	156.5	0	MAG	MPPprobe
K17-447	157	2.3	MAG	MPPprobe
K17-447	157.5	0.27	MAG	MPPprobe
K17-447	158	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	158.5	0.1	MAG	MPPprobe
K17-447	159	0.29	MAG	MPPprobe
K17-447	159.5	0.23	MAG	MPPprobe
K17-447	160	0.29	MAG	MPPprobe
K17-447	160.5	1.68	MAG	MPPprobe
K17-447	161	0	MAG	MPPprobe
K17-447	161.5	0.39	MAG	MPPprobe
K17-447	162	0.04	MAG	MPPprobe
K17-447	162.5	0.89	MAG	MPPprobe
K17-447	163	0.19	MAG	MPPprobe
K17-447	163.5	0	MAG	MPPprobe
K17-447	164	0.27	MAG	MPPprobe
K17-447	164.5	0	MAG	MPPprobe
K17-447	165	0.06	MAG	MPPprobe
K17-447	165.5	0	MAG	MPPprobe
K17-447	166	0.39	MAG	MPPprobe
K17-447	166.5	0.31	MAG	MPPprobe
K17-447	167	0.21	MAG	MPPprobe
K17-447	167.5	0.08	MAG	MPPprobe
K17-447	168	0.93	MAG	MPPprobe
K17-447	168.5	1.79	MAG	MPPprobe
K17-447	169	0.77	MAG	MPPprobe
K17-447	169.5	0.48	MAG	MPPprobe
K17-447	170	0.71	MAG	MPPprobe
K17-447	170.5	0.21	MAG	MPPprobe
K17-447	171	0	MAG	MPPprobe
K17-447	171.5	0	MAG	MPPprobe
K17-447	172	0.04	MAG	MPPprobe
K17-447	172.5	0.08	MAG	MPPprobe
K17-447	173	0	MAG	MPPprobe
K17-447	173.5	0	MAG	MPPprobe
K17-447	174	0.06	MAG	MPPprobe
K17-447	174.5	0.17	MAG	MPPprobe
K17-447	175	0	MAG	MPPprobe
K17-447	175.5	0.23	MAG	MPPprobe
K17-447	176	2.06	MAG	MPPprobe
K17-447	176.5	2.8	MAG	MPPprobe
K17-447	177	0.25	MAG	MPPprobe
K17-447	177.5	0	MAG	MPPprobe
K17-447	178	0	MAG	MPPprobe
K17-447	178.5	0.04	MAG	MPPprobe
K17-447	179	0	MAG	MPPprobe
K17-447	179.5	0	MAG	MPPprobe
K17-447	180	0	MAG	MPPprobe
K17-447	180.5	0	MAG	MPPprobe
K17-447	181	0.81	MAG	MPPprobe
K17-447	181.5	0.62	MAG	MPPprobe
K17-447	182	0.15	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	182.5	1.68	MAG	MPPprobe
K17-447	183	0.17	MAG	MPPprobe
K17-447	183.5	0.33	MAG	MPPprobe
K17-447	184	0.44	MAG	MPPprobe
K17-447	184.5	0.06	MAG	MPPprobe
K17-447	185	1.35	MAG	MPPprobe
K17-447	185.5	0.58	MAG	MPPprobe
K17-447	186	4.15	MAG	MPPprobe
K17-447	186.5	0	MAG	MPPprobe
K17-447	187	0.5	MAG	MPPprobe
K17-447	187.5	0.85	MAG	MPPprobe
K17-447	188	1.2	MAG	MPPprobe
K17-447	188.5	0.85	MAG	MPPprobe
K17-447	189	3.44	MAG	MPPprobe
K17-447	189.5	0	MAG	MPPprobe
K17-447	190	1.41	MAG	MPPprobe
K17-447	190.5	0	MAG	MPPprobe
K17-447	191	0	MAG	MPPprobe
K17-447	191.5	0	MAG	MPPprobe
K17-447	192	0	MAG	MPPprobe
K17-447	192.5	1.14	MAG	MPPprobe
K17-447	193	3.44	MAG	MPPprobe
K17-447	193.5	1.02	MAG	MPPprobe
K17-447	194	2.24	MAG	MPPprobe
K17-447	194.5	1.16	MAG	MPPprobe
K17-447	195	4.17	MAG	MPPprobe
K17-447	195.5	0.62	MAG	MPPprobe
K17-447	196	2.05	MAG	MPPprobe
K17-447	196.5	0.44	MAG	MPPprobe
K17-447	197	0.25	MAG	MPPprobe
K17-447	197.5	0.39	MAG	MPPprobe
K17-447	198	0.54	MAG	MPPprobe
K17-447	198.5	3.81	MAG	MPPprobe
K17-447	199	1.37	MAG	MPPprobe
K17-447	199.5	0.54	MAG	MPPprobe
K17-447	200	0.97	MAG	MPPprobe
K17-447	200.5	5.18	MAG	MPPprobe
K17-447	201	0.15	MAG	MPPprobe
K17-447	201.5	0	MAG	MPPprobe
K17-447	202	0.58	MAG	MPPprobe
K17-447	202.5	0	MAG	MPPprobe
K17-447	203	0	MAG	MPPprobe
K17-447	203.5	0	MAG	MPPprobe
K17-447	204	0	MAG	MPPprobe
K17-447	204.5	0	MAG	MPPprobe
K17-447	205	0	MAG	MPPprobe
K17-447	205.5	0.37	MAG	MPPprobe
K17-447	206	4.91	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	206.5	3.04	MAG	MPPprobe
K17-447	207	0.44	MAG	MPPprobe
K17-447	207.5	2.37	MAG	MPPprobe
K17-447	208	0	MAG	MPPprobe
K17-447	208.5	0	MAG	MPPprobe
K17-447	209	0	MAG	MPPprobe
K17-447	209.5	0	MAG	MPPprobe
K17-447	210	0.15	MAG	MPPprobe
K17-447	210.5	0.19	MAG	MPPprobe
K17-447	211	0	MAG	MPPprobe
K17-447	211.5	0	MAG	MPPprobe
K17-447	212	0.56	MAG	MPPprobe
K17-447	212.5	0.71	MAG	MPPprobe
K17-447	213	0	MAG	MPPprobe
K17-447	213.5	0	MAG	MPPprobe
K17-447	214	0	MAG	MPPprobe
K17-447	214.5	0	MAG	MPPprobe
K17-447	215	0	MAG	MPPprobe
K17-447	215.5	1.06	MAG	MPPprobe
K17-447	216	0	MAG	MPPprobe
K17-447	216.5	0.21	MAG	MPPprobe
K17-447	217	0.58	MAG	MPPprobe
K17-447	217.5	3.5	MAG	MPPprobe
K17-447	218	0	MAG	MPPprobe
K17-447	218.5	0	MAG	MPPprobe
K17-447	219	0	MAG	MPPprobe
K17-447	219.5	0	MAG	MPPprobe
K17-447	220	0	MAG	MPPprobe
K17-447	220.5	0	MAG	MPPprobe
K17-447	221	0	MAG	MPPprobe
K17-447	221.5	0	MAG	MPPprobe
K17-447	222	0.33	MAG	MPPprobe
K17-447	222.5	1.33	MAG	MPPprobe
K17-447	223	1.77	MAG	MPPprobe
K17-447	223.5	0	MAG	MPPprobe
K17-447	224	0	MAG	MPPprobe
K17-447	224.5	1.25	MAG	MPPprobe
K17-447	225	0	MAG	MPPprobe
K17-447	225.5	0	MAG	MPPprobe
K17-447	226	0	MAG	MPPprobe
K17-447	226.5	0	MAG	MPPprobe
K17-447	227	0.08	MAG	MPPprobe
K17-447	227.5	0	MAG	MPPprobe
K17-447	228	0	MAG	MPPprobe
K17-447	228.5	0	MAG	MPPprobe
K17-447	229	0	MAG	MPPprobe
K17-447	229.5	0.35	MAG	MPPprobe
K17-447	230	0.89	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	230.5	0	MAG	MPPprobe
K17-447	231	0.65	MAG	MPPprobe
K17-447	231.5	0	MAG	MPPprobe
K17-447	232	0	MAG	MPPprobe
K17-447	232.5	1.21	MAG	MPPprobe
K17-447	233	0	MAG	MPPprobe
K17-447	233.5	0	MAG	MPPprobe
K17-447	234	0	MAG	MPPprobe
K17-447	234.5	0	MAG	MPPprobe
K17-447	235	0.65	MAG	MPPprobe
K17-447	235.5	0.52	MAG	MPPprobe
K17-447	236	4.91	MAG	MPPprobe
K17-447	236.5	1.69	MAG	MPPprobe
K17-447	237	1.71	MAG	MPPprobe
K17-447	237.5	1.14	MAG	MPPprobe
K17-447	238	0.58	MAG	MPPprobe
K17-447	238.5	0.96	MAG	MPPprobe
K17-447	239	0.08	MAG	MPPprobe
K17-447	239.5	0	MAG	MPPprobe
K17-447	240	0	MAG	MPPprobe
K17-447	240.5	0	MAG	MPPprobe
K17-447	241	0	MAG	MPPprobe
K17-447	241.5	0	MAG	MPPprobe
K17-447	242	0	MAG	MPPprobe
K17-447	242.5	0	MAG	MPPprobe
K17-447	243	0	MAG	MPPprobe
K17-447	243.5	0	MAG	MPPprobe
K17-447	244	5.33	MAG	MPPprobe
K17-447	244.5	0.35	MAG	MPPprobe
K17-447	245	1.19	MAG	MPPprobe
K17-447	245.5	2.58	MAG	MPPprobe
K17-447	246	0.73	MAG	MPPprobe
K17-447	246.5	1.52	MAG	MPPprobe
K17-447	247	1.44	MAG	MPPprobe
K17-447	247.5	0	MAG	MPPprobe
K17-447	248	0	MAG	MPPprobe
K17-447	248.5	0	MAG	MPPprobe
K17-447	249	0	MAG	MPPprobe
K17-447	249.5	0	MAG	MPPprobe
K17-447	250	0	MAG	MPPprobe
K17-447	250.5	0	MAG	MPPprobe
K17-447	251	0.58	MAG	MPPprobe
K17-447	251.5	0.35	MAG	MPPprobe
K17-447	252	0.17	MAG	MPPprobe
K17-447	252.5	0	MAG	MPPprobe
K17-447	253	0	MAG	MPPprobe
K17-447	253.5	0.96	MAG	MPPprobe
K17-447	254	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	254.5	0	MAG	MPPprobe
K17-447	255	0	MAG	MPPprobe
K17-447	255.5	0	MAG	MPPprobe
K17-447	256	0.33	MAG	MPPprobe
K17-447	256.5	0.6	MAG	MPPprobe
K17-447	257	0.04	MAG	MPPprobe
K17-447	257.5	2.16	MAG	MPPprobe
K17-447	258	0.02	MAG	MPPprobe
K17-447	258.5	6.7	MAG	MPPprobe
K17-447	259	0.96	MAG	MPPprobe
K17-447	259.5	1.52	MAG	MPPprobe
K17-447	260	0.69	MAG	MPPprobe
K17-447	260.5	0.02	MAG	MPPprobe
K17-447	261	0.15	MAG	MPPprobe
K17-447	261.5	1.56	MAG	MPPprobe
K17-447	262	0	MAG	MPPprobe
K17-447	262.5	3.02	MAG	MPPprobe
K17-447	263	3.97	MAG	MPPprobe
K17-447	263.5	8.26	MAG	MPPprobe
K17-447	264	2.99	MAG	MPPprobe
K17-447	264.5	0.71	MAG	MPPprobe
K17-447	265	0.46	MAG	MPPprobe
K17-447	265.5	0	MAG	MPPprobe
K17-447	266	0	MAG	MPPprobe
K17-447	266.5	0	MAG	MPPprobe
K17-447	267	0	MAG	MPPprobe
K17-447	267.5	0.31	MAG	MPPprobe
K17-447	268	0	MAG	MPPprobe
K17-447	268.5	0	MAG	MPPprobe
K17-447	269	0	MAG	MPPprobe
K17-447	269.5	0	MAG	MPPprobe
K17-447	270	0	MAG	MPPprobe
K17-447	270.5	0.6	MAG	MPPprobe
K17-447	271	34.3	MAG	MPPprobe
K17-447	271.5	0.85	MAG	MPPprobe
K17-447	272	0	MAG	MPPprobe
K17-447	272.5	0.62	MAG	MPPprobe
K17-447	273	3.22	MAG	MPPprobe
K17-447	273.5	0	MAG	MPPprobe
K17-447	274	1.33	MAG	MPPprobe
K17-447	274.5	1.6	MAG	MPPprobe
K17-447	275	0	MAG	MPPprobe
K17-447	275.5	3.89	MAG	MPPprobe
K17-447	276	1.06	MAG	MPPprobe
K17-447	276.5	1.54	MAG	MPPprobe
K17-447	277	0	MAG	MPPprobe
K17-447	277.5	0	MAG	MPPprobe
K17-447	278	0.77	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	278.5	2.66	MAG	MPPprobe
K17-447	279	1.12	MAG	MPPprobe
K17-447	279.5	0.19	MAG	MPPprobe
K17-447	280	2.39	MAG	MPPprobe
K17-447	280.5	5.18	MAG	MPPprobe
K17-447	281	0.33	MAG	MPPprobe
K17-447	281.5	0	MAG	MPPprobe
K17-447	282	3.01	MAG	MPPprobe
K17-447	282.5	0	MAG	MPPprobe
K17-447	283	0.35	MAG	MPPprobe
K17-447	283.5	0	MAG	MPPprobe
K17-447	284	0.15	MAG	MPPprobe
K17-447	284.5	1.39	MAG	MPPprobe
K17-447	285	2.56	MAG	MPPprobe
K17-447	285.5	0	MAG	MPPprobe
K17-447	286	1.29	MAG	MPPprobe
K17-447	286.5	1.46	MAG	MPPprobe
K17-447	287	0.23	MAG	MPPprobe
K17-447	287.5	0	MAG	MPPprobe
K17-447	288	2.41	MAG	MPPprobe
K17-447	288.5	0.56	MAG	MPPprobe
K17-447	289	3.14	MAG	MPPprobe
K17-447	289.5	0.17	MAG	MPPprobe
K17-447	290	0	MAG	MPPprobe
K17-447	290.5	0.62	MAG	MPPprobe
K17-447	291	0.62	MAG	MPPprobe
K17-447	291.5	0	MAG	MPPprobe
K17-447	292	1.21	MAG	MPPprobe
K17-447	292.5	0	MAG	MPPprobe
K17-447	293	2.51	MAG	MPPprobe
K17-447	293.5	2.1	MAG	MPPprobe
K17-447	294	0.21	MAG	MPPprobe
K17-447	294.5	0.5	MAG	MPPprobe
K17-447	295	0	MAG	MPPprobe
K17-447	295.5	0	MAG	MPPprobe
K17-447	296	0	MAG	MPPprobe
K17-447	296.5	0	MAG	MPPprobe
K17-447	297	0	MAG	MPPprobe
K17-447	297.5	0	MAG	MPPprobe
K17-447	298	0	MAG	MPPprobe
K17-447	298.5	0	MAG	MPPprobe
K17-447	299	0	MAG	MPPprobe
K17-447	299.5	0	MAG	MPPprobe
K17-447	300	0	MAG	MPPprobe
K17-447	300.5	0.08	MAG	MPPprobe
K17-447	301	0	MAG	MPPprobe
K17-447	301.5	0	MAG	MPPprobe
K17-447	302	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	302.5	0.96	MAG	MPPprobe
K17-447	303	0	MAG	MPPprobe
K17-447	303.5	0	MAG	MPPprobe
K17-447	304	0	MAG	MPPprobe
K17-447	304.5	0	MAG	MPPprobe
K17-447	305	0.39	MAG	MPPprobe
K17-447	305.5	1.35	MAG	MPPprobe
K17-447	306	0.39	MAG	MPPprobe
K17-447	306.5	0	MAG	MPPprobe
K17-447	307	0.71	MAG	MPPprobe
K17-447	307.5	4.28	MAG	MPPprobe
K17-447	308	0	MAG	MPPprobe
K17-447	308.5	1.06	MAG	MPPprobe
K17-447	309	3.59	MAG	MPPprobe
K17-447	309.5	0	MAG	MPPprobe
K17-447	310	0	MAG	MPPprobe
K17-447	310.5	0	MAG	MPPprobe
K17-447	311	0	MAG	MPPprobe
K17-447	311.5	0	MAG	MPPprobe
K17-447	312	0	MAG	MPPprobe
K17-447	312.5	0.12	MAG	MPPprobe
K17-447	313	0	MAG	MPPprobe
K17-447	313.5	0	MAG	MPPprobe
K17-447	314	0	MAG	MPPprobe
K17-447	314.5	0	MAG	MPPprobe
K17-447	315	0	MAG	MPPprobe
K17-447	315.5	0	MAG	MPPprobe
K17-447	316	0	MAG	MPPprobe
K17-447	316.5	0	MAG	MPPprobe
K17-447	317	0	MAG	MPPprobe
K17-447	317.5	0.02	MAG	MPPprobe
K17-447	318	0	MAG	MPPprobe
K17-447	318.5	0	MAG	MPPprobe
K17-447	319	0	MAG	MPPprobe
K17-447	319.5	0	MAG	MPPprobe
K17-447	320	0	MAG	MPPprobe
K17-447	320.5	0.35	MAG	MPPprobe
K17-447	321	0.35	MAG	MPPprobe
K17-447	321.5	0.56	MAG	MPPprobe
K17-447	322	1.1	MAG	MPPprobe
K17-447	322.5	0.6	MAG	MPPprobe
K17-447	323	0	MAG	MPPprobe
K17-447	323.5	0.54	MAG	MPPprobe
K17-447	324	0	MAG	MPPprobe
K17-447	324.5	1.75	MAG	MPPprobe
K17-447	325	0	MAG	MPPprobe
K17-447	325.5	0	MAG	MPPprobe
K17-447	326	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	326.5	0	MAG	MPPprobe
K17-447	327	0	MAG	MPPprobe
K17-447	327.5	0	MAG	MPPprobe
K17-447	328	0	MAG	MPPprobe
K17-447	328.5	0	MAG	MPPprobe
K17-447	329	0.25	MAG	MPPprobe
K17-447	329.5	0	MAG	MPPprobe
K17-447	330	0	MAG	MPPprobe
K17-447	330.5	0.23	MAG	MPPprobe
K17-447	331	0.77	MAG	MPPprobe
K17-447	331.5	0.17	MAG	MPPprobe
K17-447	332	0	MAG	MPPprobe
K17-447	332.5	0	MAG	MPPprobe
K17-447	333	10.6	MAG	MPPprobe
K17-447	333.5	0	MAG	MPPprobe
K17-447	334	0	MAG	MPPprobe
K17-447	334.5	3.16	MAG	MPPprobe
K17-447	335	0	MAG	MPPprobe
K17-447	335.5	0	MAG	MPPprobe
K17-447	336	0	MAG	MPPprobe
K17-447	336.5	0	MAG	MPPprobe
K17-447	337	1.12	MAG	MPPprobe
K17-447	337.5	0.25	MAG	MPPprobe
K17-447	338	1.27	MAG	MPPprobe
K17-447	338.5	1.87	MAG	MPPprobe
K17-447	339	6.52	MAG	MPPprobe
K17-447	339.5	0	MAG	MPPprobe
K17-447	340	0	MAG	MPPprobe
K17-447	340.5	0	MAG	MPPprobe
K17-447	341	0	MAG	MPPprobe
K17-447	341.5	0	MAG	MPPprobe
K17-447	342	0	MAG	MPPprobe
K17-447	342.5	0	MAG	MPPprobe
K17-447	343	0	MAG	MPPprobe
K17-447	343.5	0	MAG	MPPprobe
K17-447	344	0	MAG	MPPprobe
K17-447	344.5	0	MAG	MPPprobe
K17-447	345	0	MAG	MPPprobe
K17-447	345.5	0.15	MAG	MPPprobe
K17-447	346	0.31	MAG	MPPprobe
K17-447	346.5	0.02	MAG	MPPprobe
K17-447	347	0.23	MAG	MPPprobe
K17-447	347.5	0.21	MAG	MPPprobe
K17-447	348	0.17	MAG	MPPprobe
K17-447	348.5	0.27	MAG	MPPprobe
K17-447	349	0	MAG	MPPprobe
K17-447	349.5	0	MAG	MPPprobe
K17-447	350	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	350.5	0	MAG	MPPprobe
K17-447	351	0	MAG	MPPprobe
K17-447	351.5	0	MAG	MPPprobe
K17-447	352	0	MAG	MPPprobe
K17-447	352.5	0	MAG	MPPprobe
K17-447	353	0	MAG	MPPprobe
K17-447	353.5	0	MAG	MPPprobe
K17-447	354	0	MAG	MPPprobe
K17-447	354.5	0	MAG	MPPprobe
K17-447	355	0.39	MAG	MPPprobe
K17-447	355.5	1.16	MAG	MPPprobe
K17-447	356	1.51	MAG	MPPprobe
K17-447	356.5	0.85	MAG	MPPprobe
K17-447	357	0.27	MAG	MPPprobe
K17-447	357.5	0.37	MAG	MPPprobe
K17-447	358	0.35	MAG	MPPprobe
K17-447	358.5	0	MAG	MPPprobe
K17-447	359	0	MAG	MPPprobe
K17-447	359.5	0	MAG	MPPprobe
K17-447	360	0	MAG	MPPprobe
K17-447	360.5	0	MAG	MPPprobe
K17-447	361	0	MAG	MPPprobe
K17-447	361.5	2.47	MAG	MPPprobe
K17-447	362	0	MAG	MPPprobe
K17-447	362.5	1.51	MAG	MPPprobe
K17-447	363	0.54	MAG	MPPprobe
K17-447	363.5	0.41	MAG	MPPprobe
K17-447	364	0.91	MAG	MPPprobe
K17-447	364.5	0.62	MAG	MPPprobe
K17-447	365	0.52	MAG	MPPprobe
K17-447	365.5	0.37	MAG	MPPprobe
K17-447	366	1.04	MAG	MPPprobe
K17-447	366.5	0.41	MAG	MPPprobe
K17-447	367	0.39	MAG	MPPprobe
K17-447	367.5	0.83	MAG	MPPprobe
K17-447	368	0.79	MAG	MPPprobe
K17-447	368.5	2.13	MAG	MPPprobe
K17-447	369	2.49	MAG	MPPprobe
K17-447	369.5	0.91	MAG	MPPprobe
K17-447	370	1.18	MAG	MPPprobe
K17-447	370.5	0.85	MAG	MPPprobe
K17-447	371	0.39	MAG	MPPprobe
K17-447	371.5	0.17	MAG	MPPprobe
K17-447	372	0.25	MAG	MPPprobe
K17-447	372.5	0.75	MAG	MPPprobe
K17-447	373	0.12	MAG	MPPprobe
K17-447	373.5	0.21	MAG	MPPprobe
K17-447	374	0.42	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	374.5	0.12	MAG	MPPprobe
K17-447	375	1.75	MAG	MPPprobe
K17-447	375.5	1.16	MAG	MPPprobe
K17-447	376	2.56	MAG	MPPprobe
K17-447	376.5	2.58	MAG	MPPprobe
K17-447	377	0.52	MAG	MPPprobe
K17-447	377.5	1.91	MAG	MPPprobe
K17-447	378	0	MAG	MPPprobe
K17-447	378.5	2.41	MAG	MPPprobe
K17-447	379	3.51	MAG	MPPprobe
K17-447	379.5	12.5	MAG	MPPprobe
K17-447	380	4.2	MAG	MPPprobe
K17-447	380.5	2.66	MAG	MPPprobe
K17-447	381	1.93	MAG	MPPprobe
K17-447	381.5	9.31	MAG	MPPprobe
K17-447	382	26.8	MAG	MPPprobe
K17-447	382.5	2.97	MAG	MPPprobe
K17-447	383	2.1	MAG	MPPprobe
K17-447	383.5	4.93	MAG	MPPprobe
K17-447	384	0.15	MAG	MPPprobe
K17-447	384.5	1.12	MAG	MPPprobe
K17-447	385	1.85	MAG	MPPprobe
K17-447	385.5	1.31	MAG	MPPprobe
K17-447	386	0.33	MAG	MPPprobe
K17-447	386.5	1.64	MAG	MPPprobe
K17-447	387	0	MAG	MPPprobe
K17-447	387.5	2.31	MAG	MPPprobe
K17-447	388	3.33	MAG	MPPprobe
K17-447	388.5	1.31	MAG	MPPprobe
K17-447	389	0.6	MAG	MPPprobe
K17-447	389.5	0	MAG	MPPprobe
K17-447	390	2.2	MAG	MPPprobe
K17-447	390.5	1.68	MAG	MPPprobe
K17-447	391	2.06	MAG	MPPprobe
K17-447	391.5	0.64	MAG	MPPprobe
K17-447	392	1.29	MAG	MPPprobe
K17-447	392.5	2.2	MAG	MPPprobe
K17-447	393	1.52	MAG	MPPprobe
K17-447	393.5	0	MAG	MPPprobe
K17-447	394	0	MAG	MPPprobe
K17-447	394.5	1.25	MAG	MPPprobe
K17-447	395	0.81	MAG	MPPprobe
K17-447	395.5	0	MAG	MPPprobe
K17-447	396	0.56	MAG	MPPprobe
K17-447	396.5	6.38	MAG	MPPprobe
K17-447	397	1.14	MAG	MPPprobe
K17-447	397.5	0.17	MAG	MPPprobe
K17-447	398	3.37	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	398.5	4.34	MAG	MPPprobe
K17-447	399	6.9	MAG	MPPprobe
K17-447	399.5	0.42	MAG	MPPprobe
K17-447	400	0.91	MAG	MPPprobe
K17-447	400.5	0.23	MAG	MPPprobe
K17-447	401	0.46	MAG	MPPprobe
K17-447	401.5	0.48	MAG	MPPprobe
K17-447	402	0.44	MAG	MPPprobe
K17-447	402.5	7.85	MAG	MPPprobe
K17-447	403	1.48	MAG	MPPprobe
K17-447	403.5	2.02	MAG	MPPprobe
K17-447	404	5.24	MAG	MPPprobe
K17-447	404.5	5.69	MAG	MPPprobe
K17-447	405	2.18	MAG	MPPprobe
K17-447	405.5	1.45	MAG	MPPprobe
K17-447	406	1.08	MAG	MPPprobe
K17-447	406.5	1.91	MAG	MPPprobe
K17-447	407	0.89	MAG	MPPprobe
K17-447	407.5	2.18	MAG	MPPprobe
K17-447	408	0.66	MAG	MPPprobe
K17-447	408.5	2.16	MAG	MPPprobe
K17-447	409	2.47	MAG	MPPprobe
K17-447	409.5	0.48	MAG	MPPprobe
K17-447	410	0	MAG	MPPprobe
K17-447	410.5	0	MAG	MPPprobe
K17-447	411	0.02	MAG	MPPprobe
K17-447	411.5	1.87	MAG	MPPprobe
K17-447	412	2.45	MAG	MPPprobe
K17-447	412.5	1.68	MAG	MPPprobe
K17-447	413	0.23	MAG	MPPprobe
K17-447	413.5	0.77	MAG	MPPprobe
K17-447	414	1.58	MAG	MPPprobe
K17-447	414.5	1.25	MAG	MPPprobe
K17-447	415	2.93	MAG	MPPprobe
K17-447	415.5	8.12	MAG	MPPprobe
K17-447	416	0	MAG	MPPprobe
K17-447	416.5	0	MAG	MPPprobe
K17-447	417	0	MAG	MPPprobe
K17-447	417.5	0	MAG	MPPprobe
K17-447	418	4.61	MAG	MPPprobe
K17-447	418.5	1.29	MAG	MPPprobe
K17-447	419	0.64	MAG	MPPprobe
K17-447	419.5	2.6	MAG	MPPprobe
K17-447	420	0.69	MAG	MPPprobe
K17-447	420.5	0.64	MAG	MPPprobe
K17-447	421	0.96	MAG	MPPprobe
K17-447	421.5	0.73	MAG	MPPprobe
K17-447	422	0.93	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	422.5	0	MAG	MPPprobe
K17-447	423	0	MAG	MPPprobe
K17-447	423.5	4.72	MAG	MPPprobe
K17-447	424	0	MAG	MPPprobe
K17-447	424.5	5.88	MAG	MPPprobe
K17-447	425	0.81	MAG	MPPprobe
K17-447	425.5	1.47	MAG	MPPprobe
K17-447	426	1.5	MAG	MPPprobe
K17-447	426.5	0.83	MAG	MPPprobe
K17-447	427	0.23	MAG	MPPprobe
K17-447	427.5	0.44	MAG	MPPprobe
K17-447	428	11.3	MAG	MPPprobe
K17-447	428.5	2.99	MAG	MPPprobe
K17-447	429	13.5	MAG	MPPprobe
K17-447	429.5	3.53	MAG	MPPprobe
K17-447	430	0.98	MAG	MPPprobe
K17-447	430.5	1.47	MAG	MPPprobe
K17-447	431	1.5	MAG	MPPprobe
K17-447	431.5	10.3	MAG	MPPprobe
K17-447	432	0.06	MAG	MPPprobe
K17-447	432.5	0	MAG	MPPprobe
K17-447	433	3.93	MAG	MPPprobe
K17-447	433.5	4.53	MAG	MPPprobe
K17-447	434	10.4	MAG	MPPprobe
K17-447	434.5	6.52	MAG	MPPprobe
K17-447	435	7.89	MAG	MPPprobe
K17-447	435.5	1.68	MAG	MPPprobe
K17-447	436	3.93	MAG	MPPprobe
K17-447	436.5	3.3	MAG	MPPprobe
K17-447	437	9.62	MAG	MPPprobe
K17-447	437.5	2.58	MAG	MPPprobe
K17-447	438	3.8	MAG	MPPprobe
K17-447	438.5	3.3	MAG	MPPprobe
K17-447	439	3.88	MAG	MPPprobe
K17-447	439.5	0	MAG	MPPprobe
K17-447	440	1.27	MAG	MPPprobe
K17-447	440.5	1.2	MAG	MPPprobe
K17-447	441	7.48	MAG	MPPprobe
K17-447	441.5	3.01	MAG	MPPprobe
K17-447	442	3.72	MAG	MPPprobe
K17-447	442.5	1.12	MAG	MPPprobe
K17-447	443	0.48	MAG	MPPprobe
K17-447	443.5	0	MAG	MPPprobe
K17-447	444	0	MAG	MPPprobe
K17-447	444.5	0	MAG	MPPprobe
K17-447	445	5.94	MAG	MPPprobe
K17-447	445.5	7.08	MAG	MPPprobe
K17-447	446	7.56	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-447	446.5	0.54	MAG	MPPprobe
K17-447	447	1.08	MAG	MPPprobe
K17-447	447.5	0.83	MAG	MPPprobe
K17-447	448	1.79	MAG	MPPprobe
K17-447	448.5	1.83	MAG	MPPprobe
K17-447	449	0.91	MAG	MPPprobe
K17-447	449.5	0.42	MAG	MPPprobe
K17-447	450	0.12	MAG	MPPprobe
K17-447	450.5	0.12	MAG	MPPprobe
K17-447	451	0	MAG	MPPprobe
K17-447	451.5	0.6	MAG	MPPprobe
K17-447	452	1.35	MAG	MPPprobe
K17-448	13.5	1.3	MAG	MPPprobe
K17-448	14	0.25	MAG	MPPprobe
K17-448	14.5	2.2	MAG	MPPprobe
K17-448	15	0.43	MAG	MPPprobe
K17-448	15.5	1.15	MAG	MPPprobe
K17-448	16	0	MAG	MPPprobe
K17-448	16.5	0.39	MAG	MPPprobe
K17-448	17	0.6	MAG	MPPprobe
K17-448	17.5	0.29	MAG	MPPprobe
K17-448	18	3.03	MAG	MPPprobe
K17-448	18.5	1.22	MAG	MPPprobe
K17-448	19	0.62	MAG	MPPprobe
K17-448	19.5	0.23	MAG	MPPprobe
K17-448	20	3.07	MAG	MPPprobe
K17-448	20.5	0.35	MAG	MPPprobe
K17-448	21	1.69	MAG	MPPprobe
K17-448	21.5	4.86	MAG	MPPprobe
K17-448	22	0.82	MAG	MPPprobe
K17-448	22.5	0.54	MAG	MPPprobe
K17-448	23	0.74	MAG	MPPprobe
K17-448	23.5	4.1	MAG	MPPprobe
K17-448	24	1.85	MAG	MPPprobe
K17-448	24.5	0.76	MAG	MPPprobe
K17-448	25	0.33	MAG	MPPprobe
K17-448	25.5	0	MAG	MPPprobe
K17-448	26	0.12	MAG	MPPprobe
K17-448	26.5	0.43	MAG	MPPprobe
K17-448	27	1.92	MAG	MPPprobe
K17-448	27.5	1.55	MAG	MPPprobe
K17-448	28	0.74	MAG	MPPprobe
K17-448	28.5	1.4	MAG	MPPprobe
K17-448	29	1.15	MAG	MPPprobe
K17-448	29.5	2.2	MAG	MPPprobe
K17-448	30	0.49	MAG	MPPprobe
K17-448	30.5	1.28	MAG	MPPprobe
K17-448	31	0.47	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	31.5	0.39	MAG	MPPprobe
K17-448	32	0.37	MAG	MPPprobe
K17-448	32.5	0.49	MAG	MPPprobe
K17-448	33	0.84	MAG	MPPprobe
K17-448	33.5	1.48	MAG	MPPprobe
K17-448	34	0.76	MAG	MPPprobe
K17-448	34.5	0.68	MAG	MPPprobe
K17-448	35	3.4	MAG	MPPprobe
K17-448	35.5	0.33	MAG	MPPprobe
K17-448	36	0.64	MAG	MPPprobe
K17-448	36.5	0.31	MAG	MPPprobe
K17-448	37	0.76	MAG	MPPprobe
K17-448	37.5	0.56	MAG	MPPprobe
K17-448	38	0.08	MAG	MPPprobe
K17-448	38.5	0	MAG	MPPprobe
K17-448	39	0.14	MAG	MPPprobe
K17-448	39.5	2.06	MAG	MPPprobe
K17-448	40	2.45	MAG	MPPprobe
K17-448	40.5	7.13	MAG	MPPprobe
K17-448	41	2.64	MAG	MPPprobe
K17-448	41.5	0.97	MAG	MPPprobe
K17-448	42	2.95	MAG	MPPprobe
K17-448	42.5	0.49	MAG	MPPprobe
K17-448	43	0.37	MAG	MPPprobe
K17-448	43.5	2.51	MAG	MPPprobe
K17-448	44	3.69	MAG	MPPprobe
K17-448	44.5	0.16	MAG	MPPprobe
K17-448	45	1.07	MAG	MPPprobe
K17-448	45.5	0.64	MAG	MPPprobe
K17-448	46	0.8	MAG	MPPprobe
K17-448	46.5	2.18	MAG	MPPprobe
K17-448	47	2.76	MAG	MPPprobe
K17-448	47.5	1.65	MAG	MPPprobe
K17-448	48	2.97	MAG	MPPprobe
K17-448	48.5	1.01	MAG	MPPprobe
K17-448	49	1.52	MAG	MPPprobe
K17-448	49.5	1.96	MAG	MPPprobe
K17-448	50	0.68	MAG	MPPprobe
K17-448	50.5	2.1	MAG	MPPprobe
K17-448	51	1.75	MAG	MPPprobe
K17-448	51.5	1.75	MAG	MPPprobe
K17-448	52	1.15	MAG	MPPprobe
K17-448	52.5	1.67	MAG	MPPprobe
K17-448	53	1.69	MAG	MPPprobe
K17-448	53.5	1.32	MAG	MPPprobe
K17-448	54	2.47	MAG	MPPprobe
K17-448	54.5	0.21	MAG	MPPprobe
K17-448	55	4.26	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	55.5	0.25	MAG	MPPprobe
K17-448	56	2.18	MAG	MPPprobe
K17-448	56.5	4.53	MAG	MPPprobe
K17-448	57	0.12	MAG	MPPprobe
K17-448	57.5	0.52	MAG	MPPprobe
K17-448	58	2.62	MAG	MPPprobe
K17-448	58.5	3.73	MAG	MPPprobe
K17-448	59	0.35	MAG	MPPprobe
K17-448	59.5	1.13	MAG	MPPprobe
K17-448	60	4.1	MAG	MPPprobe
K17-448	60.5	6.68	MAG	MPPprobe
K17-448	61	1.42	MAG	MPPprobe
K17-448	61.5	0.6	MAG	MPPprobe
K17-448	62	0.43	MAG	MPPprobe
K17-448	62.5	3.65	MAG	MPPprobe
K17-448	63	3.4	MAG	MPPprobe
K17-448	63.5	2.7	MAG	MPPprobe
K17-448	64	1.28	MAG	MPPprobe
K17-448	64.5	3.38	MAG	MPPprobe
K17-448	65	0.68	MAG	MPPprobe
K17-448	65.5	0.91	MAG	MPPprobe
K17-448	66	2.23	MAG	MPPprobe
K17-448	66.5	1.94	MAG	MPPprobe
K17-448	67	1.48	MAG	MPPprobe
K17-448	67.5	0.58	MAG	MPPprobe
K17-448	68	0.35	MAG	MPPprobe
K17-448	68.5	0.62	MAG	MPPprobe
K17-448	69	1.48	MAG	MPPprobe
K17-448	69.5	1.4	MAG	MPPprobe
K17-448	70	1.26	MAG	MPPprobe
K17-448	70.5	1.4	MAG	MPPprobe
K17-448	71	3.19	MAG	MPPprobe
K17-448	71.5	1.46	MAG	MPPprobe
K17-448	72	0.74	MAG	MPPprobe
K17-448	72.5	2.16	MAG	MPPprobe
K17-448	73	3.3	MAG	MPPprobe
K17-448	73.5	0.74	MAG	MPPprobe
K17-448	74	0.91	MAG	MPPprobe
K17-448	74.5	3.19	MAG	MPPprobe
K17-448	75	1.79	MAG	MPPprobe
K17-448	75.5	1.73	MAG	MPPprobe
K17-448	76	2.39	MAG	MPPprobe
K17-448	76.5	0.58	MAG	MPPprobe
K17-448	77	0.19	MAG	MPPprobe
K17-448	77.5	1.13	MAG	MPPprobe
K17-448	78	0.84	MAG	MPPprobe
K17-448	78.5	1.83	MAG	MPPprobe
K17-448	79	4.27	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	79.5	3.65	MAG	MPPprobe
K17-448	80	2.04	MAG	MPPprobe
K17-448	80.5	0.74	MAG	MPPprobe
K17-448	81	11.5	MAG	MPPprobe
K17-448	81.5	6.61	MAG	MPPprobe
K17-448	82	5.15	MAG	MPPprobe
K17-448	82.5	1.94	MAG	MPPprobe
K17-448	83	3.11	MAG	MPPprobe
K17-448	83.5	2.49	MAG	MPPprobe
K17-448	84	1.42	MAG	MPPprobe
K17-448	84.5	0.25	MAG	MPPprobe
K17-448	85	1.07	MAG	MPPprobe
K17-448	85.5	1.59	MAG	MPPprobe
K17-448	86	1.24	MAG	MPPprobe
K17-448	86.5	0.33	MAG	MPPprobe
K17-448	87	2.02	MAG	MPPprobe
K17-448	87.5	0.23	MAG	MPPprobe
K17-448	88	0.35	MAG	MPPprobe
K17-448	88.5	0.12	MAG	MPPprobe
K17-448	89	0.74	MAG	MPPprobe
K17-448	89.5	0.27	MAG	MPPprobe
K17-448	90	0.89	MAG	MPPprobe
K17-448	90.5	1.32	MAG	MPPprobe
K17-448	91	1.71	MAG	MPPprobe
K17-448	91.5	2.25	MAG	MPPprobe
K17-448	92	3.21	MAG	MPPprobe
K17-448	92.5	6.41	MAG	MPPprobe
K17-448	93	37.4	MAG	MPPprobe
K17-448	93.5	2.27	MAG	MPPprobe
K17-448	94	1.11	MAG	MPPprobe
K17-448	94.5	0.29	MAG	MPPprobe
K17-448	95	0.64	MAG	MPPprobe
K17-448	95.5	1.96	MAG	MPPprobe
K17-448	96	0.74	MAG	MPPprobe
K17-448	96.5	0.06	MAG	MPPprobe
K17-448	97	0.21	MAG	MPPprobe
K17-448	97.5	0.1	MAG	MPPprobe
K17-448	98	0.19	MAG	MPPprobe
K17-448	98.5	0.04	MAG	MPPprobe
K17-448	99	0.33	MAG	MPPprobe
K17-448	99.5	0.21	MAG	MPPprobe
K17-448	100	0.1	MAG	MPPprobe
K17-448	100.5	4.7	MAG	MPPprobe
K17-448	101	3.71	MAG	MPPprobe
K17-448	101.5	4.57	MAG	MPPprobe
K17-448	102	2.35	MAG	MPPprobe
K17-448	102.5	6.99	MAG	MPPprobe
K17-448	103	1.9	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	103.5	0.91	MAG	MPPprobe
K17-448	104	0.02	MAG	MPPprobe
K17-448	104.5	0	MAG	MPPprobe
K17-448	105	0.47	MAG	MPPprobe
K17-448	105.5	1.13	MAG	MPPprobe
K17-448	106	3.23	MAG	MPPprobe
K17-448	106.5	3.85	MAG	MPPprobe
K17-448	107	1.63	MAG	MPPprobe
K17-448	107.5	1.92	MAG	MPPprobe
K17-448	108	2.18	MAG	MPPprobe
K17-448	108.5	0	MAG	MPPprobe
K17-448	109	10.5	MAG	MPPprobe
K17-448	109.5	12.6	MAG	MPPprobe
K17-448	110	16.2	MAG	MPPprobe
K17-448	110.5	7.38	MAG	MPPprobe
K17-448	111	4.2	MAG	MPPprobe
K17-448	111.5	9.15	MAG	MPPprobe
K17-448	112	7.44	MAG	MPPprobe
K17-448	112.5	3.98	MAG	MPPprobe
K17-448	113	8.55	MAG	MPPprobe
K17-448	113.5	3.73	MAG	MPPprobe
K17-448	114	0.89	MAG	MPPprobe
K17-448	114.5	2.78	MAG	MPPprobe
K17-448	115	2.45	MAG	MPPprobe
K17-448	115.5	1.42	MAG	MPPprobe
K17-448	116	0.37	MAG	MPPprobe
K17-448	116.5	8.55	MAG	MPPprobe
K17-448	117	2.51	MAG	MPPprobe
K17-448	117.5	9.99	MAG	MPPprobe
K17-448	118	5.54	MAG	MPPprobe
K17-448	118.5	4.99	MAG	MPPprobe
K17-448	119	5.01	MAG	MPPprobe
K17-448	119.5	5.15	MAG	MPPprobe
K17-448	120	2.51	MAG	MPPprobe
K17-448	120.5	3.5	MAG	MPPprobe
K17-448	121	1.87	MAG	MPPprobe
K17-448	121.5	1.63	MAG	MPPprobe
K17-448	122	3.46	MAG	MPPprobe
K17-448	122.5	3.21	MAG	MPPprobe
K17-448	123	7.36	MAG	MPPprobe
K17-448	123.5	7.25	MAG	MPPprobe
K17-448	124	1.87	MAG	MPPprobe
K17-448	124.5	1.98	MAG	MPPprobe
K17-448	125	2.7	MAG	MPPprobe
K17-448	125.5	3.32	MAG	MPPprobe
K17-448	126	1.2	MAG	MPPprobe
K17-448	126.5	3.61	MAG	MPPprobe
K17-448	127	5.01	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	127.5	0.74	MAG	MPPprobe
K17-448	128	0.52	MAG	MPPprobe
K17-448	128.5	1.71	MAG	MPPprobe
K17-448	129	1.42	MAG	MPPprobe
K17-448	129.5	1.36	MAG	MPPprobe
K17-448	130	0.8	MAG	MPPprobe
K17-448	130.5	1.75	MAG	MPPprobe
K17-448	131	5.83	MAG	MPPprobe
K17-448	131.5	1.83	MAG	MPPprobe
K17-448	132	7.56	MAG	MPPprobe
K17-448	132.5	1.2	MAG	MPPprobe
K17-448	133	9.02	MAG	MPPprobe
K17-448	133.5	8.12	MAG	MPPprobe
K17-448	134	5.23	MAG	MPPprobe
K17-448	134.5	3.01	MAG	MPPprobe
K17-448	135	0.54	MAG	MPPprobe
K17-448	135.5	1.3	MAG	MPPprobe
K17-448	136	0.91	MAG	MPPprobe
K17-448	136.5	1.4	MAG	MPPprobe
K17-448	137	0.93	MAG	MPPprobe
K17-448	137.5	0.21	MAG	MPPprobe
K17-448	138	2.36	MAG	MPPprobe
K17-448	138.5	2.64	MAG	MPPprobe
K17-448	139	1.4	MAG	MPPprobe
K17-448	139.5	2.21	MAG	MPPprobe
K17-448	140	1.57	MAG	MPPprobe
K17-448	140.5	1.07	MAG	MPPprobe
K17-448	141	1.36	MAG	MPPprobe
K17-448	141.5	4.67	MAG	MPPprobe
K17-448	142	4.77	MAG	MPPprobe
K17-448	142.5	0	MAG	MPPprobe
K17-448	143	2.19	MAG	MPPprobe
K17-448	143.5	0.58	MAG	MPPprobe
K17-448	144	0.7	MAG	MPPprobe
K17-448	144.5	5.04	MAG	MPPprobe
K17-448	145	4.86	MAG	MPPprobe
K17-448	145.5	5.08	MAG	MPPprobe
K17-448	146	2.62	MAG	MPPprobe
K17-448	146.5	0.33	MAG	MPPprobe
K17-448	147	1.36	MAG	MPPprobe
K17-448	147.5	0.23	MAG	MPPprobe
K17-448	148	0.99	MAG	MPPprobe
K17-448	148.5	0.08	MAG	MPPprobe
K17-448	149	0.45	MAG	MPPprobe
K17-448	149.5	1.55	MAG	MPPprobe
K17-448	150	1.74	MAG	MPPprobe
K17-448	150.5	0.97	MAG	MPPprobe
K17-448	151	0.85	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	151.5	0.12	MAG	MPPprobe
K17-448	152	1.59	MAG	MPPprobe
K17-448	152.5	1.96	MAG	MPPprobe
K17-448	153	3.18	MAG	MPPprobe
K17-448	153.5	0.66	MAG	MPPprobe
K17-448	154	0.23	MAG	MPPprobe
K17-448	154.5	3.78	MAG	MPPprobe
K17-448	155	0.76	MAG	MPPprobe
K17-448	155.5	0.81	MAG	MPPprobe
K17-448	156	0.62	MAG	MPPprobe
K17-448	156.5	0.91	MAG	MPPprobe
K17-448	157	1.34	MAG	MPPprobe
K17-448	157.5	0.52	MAG	MPPprobe
K17-448	158	0.41	MAG	MPPprobe
K17-448	158.5	1.32	MAG	MPPprobe
K17-448	159	1.28	MAG	MPPprobe
K17-448	159.5	6.2	MAG	MPPprobe
K17-448	160	4.32	MAG	MPPprobe
K17-448	160.5	3.04	MAG	MPPprobe
K17-448	161	1.14	MAG	MPPprobe
K17-448	161.5	0.58	MAG	MPPprobe
K17-448	162	0.58	MAG	MPPprobe
K17-448	162.5	2.33	MAG	MPPprobe
K17-448	163	0.19	MAG	MPPprobe
K17-448	163.5	5.49	MAG	MPPprobe
K17-448	164	5.37	MAG	MPPprobe
K17-448	164.5	2.87	MAG	MPPprobe
K17-448	165	1.32	MAG	MPPprobe
K17-448	165.5	1.3	MAG	MPPprobe
K17-448	166	1.28	MAG	MPPprobe
K17-448	166.5	0.27	MAG	MPPprobe
K17-448	167	0.74	MAG	MPPprobe
K17-448	167.5	0.64	MAG	MPPprobe
K17-448	168	3.06	MAG	MPPprobe
K17-448	168.5	4.13	MAG	MPPprobe
K17-448	169	0.5	MAG	MPPprobe
K17-448	169.5	2.25	MAG	MPPprobe
K17-448	170	0.1	MAG	MPPprobe
K17-448	170.5	4.52	MAG	MPPprobe
K17-448	171	1.76	MAG	MPPprobe
K17-448	171.5	1.55	MAG	MPPprobe
K17-448	172	3.96	MAG	MPPprobe
K17-448	172.5	1.03	MAG	MPPprobe
K17-448	173	1.76	MAG	MPPprobe
K17-448	173.5	0.93	MAG	MPPprobe
K17-448	174	6.3	MAG	MPPprobe
K17-448	174.5	2.13	MAG	MPPprobe
K17-448	175	0.06	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	175.5	2.02	MAG	MPPprobe
K17-448	176	0	MAG	MPPprobe
K17-448	176.5	0	MAG	MPPprobe
K17-448	177	0.02	MAG	MPPprobe
K17-448	177.5	1.16	MAG	MPPprobe
K17-448	178	0.12	MAG	MPPprobe
K17-448	178.5	0.17	MAG	MPPprobe
K17-448	179	0.33	MAG	MPPprobe
K17-448	179.5	0	MAG	MPPprobe
K17-448	180	0.04	MAG	MPPprobe
K17-448	180.5	0.14	MAG	MPPprobe
K17-448	181	0	MAG	MPPprobe
K17-448	181.5	0	MAG	MPPprobe
K17-448	182	20.9	MAG	MPPprobe
K17-448	182.5	16.1	MAG	MPPprobe
K17-448	183	6.5	MAG	MPPprobe
K17-448	183.5	3.7	MAG	MPPprobe
K17-448	184	5.41	MAG	MPPprobe
K17-448	184.5	0.35	MAG	MPPprobe
K17-448	185	0.52	MAG	MPPprobe
K17-448	185.5	3.86	MAG	MPPprobe
K17-448	186	2.75	MAG	MPPprobe
K17-448	186.5	1.65	MAG	MPPprobe
K17-448	187	6.15	MAG	MPPprobe
K17-448	187.5	9.15	MAG	MPPprobe
K17-448	188	5.9	MAG	MPPprobe
K17-448	188.5	0.43	MAG	MPPprobe
K17-448	189	0.39	MAG	MPPprobe
K17-448	189.5	0	MAG	MPPprobe
K17-448	190	0.6	MAG	MPPprobe
K17-448	190.5	0	MAG	MPPprobe
K17-448	191	0.17	MAG	MPPprobe
K17-448	191.5	2.83	MAG	MPPprobe
K17-448	192	0	MAG	MPPprobe
K17-448	192.5	0.52	MAG	MPPprobe
K17-448	193	1.28	MAG	MPPprobe
K17-448	193.5	0.12	MAG	MPPprobe
K17-448	194	7.08	MAG	MPPprobe
K17-448	194.5	3.8	MAG	MPPprobe
K17-448	195	0.97	MAG	MPPprobe
K17-448	195.5	1.01	MAG	MPPprobe
K17-448	196	0.14	MAG	MPPprobe
K17-448	196.5	0.7	MAG	MPPprobe
K17-448	197	0.31	MAG	MPPprobe
K17-448	197.5	2.5	MAG	MPPprobe
K17-448	198	2.56	MAG	MPPprobe
K17-448	198.5	0.56	MAG	MPPprobe
K17-448	199	0.74	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	199.5	0.66	MAG	MPPprobe
K17-448	200	1.24	MAG	MPPprobe
K17-448	200.5	0.23	MAG	MPPprobe
K17-448	201	9.99	MAG	MPPprobe
K17-448	201.5	6.56	MAG	MPPprobe
K17-448	202	0.17	MAG	MPPprobe
K17-448	202.5	4.19	MAG	MPPprobe
K17-448	203	5.37	MAG	MPPprobe
K17-448	203.5	8.17	MAG	MPPprobe
K17-448	204	6.65	MAG	MPPprobe
K17-448	204.5	3.2	MAG	MPPprobe
K17-448	205	0.52	MAG	MPPprobe
K17-448	205.5	0.95	MAG	MPPprobe
K17-448	206	1.96	MAG	MPPprobe
K17-448	206.5	1.61	MAG	MPPprobe
K17-448	207	0.91	MAG	MPPprobe
K17-448	207.5	0.35	MAG	MPPprobe
K17-448	208	0.35	MAG	MPPprobe
K17-448	208.5	0.23	MAG	MPPprobe
K17-448	209	0.68	MAG	MPPprobe
K17-448	209.5	5.3	MAG	MPPprobe
K17-448	210	1.16	MAG	MPPprobe
K17-448	210.5	0.12	MAG	MPPprobe
K17-448	211	1.07	MAG	MPPprobe
K17-448	211.5	9.97	MAG	MPPprobe
K17-448	212	4.44	MAG	MPPprobe
K17-448	212.5	2.6	MAG	MPPprobe
K17-448	213	0.5	MAG	MPPprobe
K17-448	213.5	0.6	MAG	MPPprobe
K17-448	214	0.29	MAG	MPPprobe
K17-448	214.5	1.51	MAG	MPPprobe
K17-448	215	2.02	MAG	MPPprobe
K17-448	215.5	1.8	MAG	MPPprobe
K17-448	216	3.3	MAG	MPPprobe
K17-448	216.5	2.93	MAG	MPPprobe
K17-448	217	2.7	MAG	MPPprobe
K17-448	217.5	4.31	MAG	MPPprobe
K17-448	218	1.16	MAG	MPPprobe
K17-448	218.5	1.9	MAG	MPPprobe
K17-448	219	1.44	MAG	MPPprobe
K17-448	219.5	3.53	MAG	MPPprobe
K17-448	220	5.28	MAG	MPPprobe
K17-448	220.5	8.48	MAG	MPPprobe
K17-448	221	2.52	MAG	MPPprobe
K17-448	221.5	6.38	MAG	MPPprobe
K17-448	222	1.2	MAG	MPPprobe
K17-448	222.5	1.49	MAG	MPPprobe
K17-448	223	2.27	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	223.5	4.25	MAG	MPPprobe
K17-448	224	2.99	MAG	MPPprobe
K17-448	224.5	4.97	MAG	MPPprobe
K17-448	225	0.85	MAG	MPPprobe
K17-448	225.5	22	MAG	MPPprobe
K17-448	226	0.33	MAG	MPPprobe
K17-448	226.5	0.06	MAG	MPPprobe
K17-448	227	0.12	MAG	MPPprobe
K17-448	227.5	1.32	MAG	MPPprobe
K17-448	228	0	MAG	MPPprobe
K17-448	228.5	0.39	MAG	MPPprobe
K17-448	229	4.64	MAG	MPPprobe
K17-448	229.5	3.76	MAG	MPPprobe
K17-448	230	2.7	MAG	MPPprobe
K17-448	230.5	2.5	MAG	MPPprobe
K17-448	231	0.54	MAG	MPPprobe
K17-448	231.5	0.08	MAG	MPPprobe
K17-448	232	12.3	MAG	MPPprobe
K17-448	232.5	3.43	MAG	MPPprobe
K17-448	233	8.54	MAG	MPPprobe
K17-448	233.5	1.73	MAG	MPPprobe
K17-448	234	0.58	MAG	MPPprobe
K17-448	234.5	2.33	MAG	MPPprobe
K17-448	235	3.14	MAG	MPPprobe
K17-448	235.5	3.69	MAG	MPPprobe
K17-448	236	9.04	MAG	MPPprobe
K17-448	236.5	7.82	MAG	MPPprobe
K17-448	237	0.21	MAG	MPPprobe
K17-448	237.5	1.75	MAG	MPPprobe
K17-448	238	1.55	MAG	MPPprobe
K17-448	238.5	14.4	MAG	MPPprobe
K17-448	239	4.75	MAG	MPPprobe
K17-448	239.5	0.04	MAG	MPPprobe
K17-448	240	1.36	MAG	MPPprobe
K17-448	240.5	0.93	MAG	MPPprobe
K17-448	241	0.43	MAG	MPPprobe
K17-448	241.5	4.44	MAG	MPPprobe
K17-448	242	0.17	MAG	MPPprobe
K17-448	242.5	0.43	MAG	MPPprobe
K17-448	243	0.06	MAG	MPPprobe
K17-448	243.5	0	MAG	MPPprobe
K17-448	244	0.06	MAG	MPPprobe
K17-448	244.5	0.33	MAG	MPPprobe
K17-448	245	0	MAG	MPPprobe
K17-448	245.5	0.1	MAG	MPPprobe
K17-448	246	0	MAG	MPPprobe
K17-448	246.5	0.06	MAG	MPPprobe
K17-448	247	0.25	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	247.5	0.62	MAG	MPPprobe
K17-448	248	1.63	MAG	MPPprobe
K17-448	248.5	2.29	MAG	MPPprobe
K17-448	249	9.33	MAG	MPPprobe
K17-448	249.5	1.24	MAG	MPPprobe
K17-448	250	0.52	MAG	MPPprobe
K17-448	250.5	0.08	MAG	MPPprobe
K17-448	251	0.08	MAG	MPPprobe
K17-448	251.5	0.17	MAG	MPPprobe
K17-448	252	0.12	MAG	MPPprobe
K17-448	252.5	1.65	MAG	MPPprobe
K17-448	253	0	MAG	MPPprobe
K17-448	253.5	0.12	MAG	MPPprobe
K17-448	254	0.1	MAG	MPPprobe
K17-448	254.5	0.08	MAG	MPPprobe
K17-448	255	0.1	MAG	MPPprobe
K17-448	255.5	3.32	MAG	MPPprobe
K17-448	256	0.56	MAG	MPPprobe
K17-448	256.5	13.2	MAG	MPPprobe
K17-448	257	8.23	MAG	MPPprobe
K17-448	257.5	5.26	MAG	MPPprobe
K17-448	258	4.19	MAG	MPPprobe
K17-448	258.5	4.81	MAG	MPPprobe
K17-448	259	21.9	MAG	MPPprobe
K17-448	259.5	1.38	MAG	MPPprobe
K17-448	260	4.85	MAG	MPPprobe
K17-448	260.5	13.7	MAG	MPPprobe
K17-448	261	1.67	MAG	MPPprobe
K17-448	261.5	1.32	MAG	MPPprobe
K17-448	262	2.37	MAG	MPPprobe
K17-448	262.5	3.76	MAG	MPPprobe
K17-448	263	1.82	MAG	MPPprobe
K17-448	263.5	2.04	MAG	MPPprobe
K17-448	264	3.55	MAG	MPPprobe
K17-448	264.5	2.95	MAG	MPPprobe
K17-448	265	6.62	MAG	MPPprobe
K17-448	265.5	5.88	MAG	MPPprobe
K17-448	266	3.43	MAG	MPPprobe
K17-448	266.5	5.65	MAG	MPPprobe
K17-448	267	6.52	MAG	MPPprobe
K17-448	267.5	4.91	MAG	MPPprobe
K17-448	268	5.16	MAG	MPPprobe
K17-448	268.5	5.99	MAG	MPPprobe
K17-448	269	13	MAG	MPPprobe
K17-448	269.5	4.89	MAG	MPPprobe
K17-448	270	0.45	MAG	MPPprobe
K17-448	270.5	1.11	MAG	MPPprobe
K17-448	271	17.9	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	271.5	4.75	MAG	MPPprobe
K17-448	272	7.16	MAG	MPPprobe
K17-448	272.5	11.8	MAG	MPPprobe
K17-448	273	6.96	MAG	MPPprobe
K17-448	273.5	2.89	MAG	MPPprobe
K17-448	274	5.47	MAG	MPPprobe
K17-448	274.5	7.27	MAG	MPPprobe
K17-448	275	6.21	MAG	MPPprobe
K17-448	275.5	9.97	MAG	MPPprobe
K17-448	276	24.6	MAG	MPPprobe
K17-448	276.5	56.1	MAG	MPPprobe
K17-448	277	3.08	MAG	MPPprobe
K17-448	277.5	15.9	MAG	MPPprobe
K17-448	278	5.7	MAG	MPPprobe
K17-448	278.5	0.85	MAG	MPPprobe
K17-448	279	14.1	MAG	MPPprobe
K17-448	279.5	3.06	MAG	MPPprobe
K17-448	280	1.67	MAG	MPPprobe
K17-448	280.5	4.69	MAG	MPPprobe
K17-448	281	5.04	MAG	MPPprobe
K17-448	281.5	4.46	MAG	MPPprobe
K17-448	282	2.31	MAG	MPPprobe
K17-448	282.5	10.7	MAG	MPPprobe
K17-448	283	3.16	MAG	MPPprobe
K17-448	283.5	1.82	MAG	MPPprobe
K17-448	284	0.29	MAG	MPPprobe
K17-448	284.5	3.3	MAG	MPPprobe
K17-448	285	7.64	MAG	MPPprobe
K17-448	285.5	2.75	MAG	MPPprobe
K17-448	286	1.92	MAG	MPPprobe
K17-448	286.5	2.44	MAG	MPPprobe
K17-448	287	5.18	MAG	MPPprobe
K17-448	287.5	4.11	MAG	MPPprobe
K17-448	288	0.54	MAG	MPPprobe
K17-448	288.5	1.67	MAG	MPPprobe
K17-448	289	3.9	MAG	MPPprobe
K17-448	289.5	1.53	MAG	MPPprobe
K17-448	290	1.05	MAG	MPPprobe
K17-448	290.5	2.31	MAG	MPPprobe
K17-448	291	1.16	MAG	MPPprobe
K17-448	291.5	2.81	MAG	MPPprobe
K17-448	292	8.38	MAG	MPPprobe
K17-448	292.5	18.4	MAG	MPPprobe
K17-448	293	2.11	MAG	MPPprobe
K17-448	293.5	11.6	MAG	MPPprobe
K17-448	294	13	MAG	MPPprobe
K17-448	294.5	1.05	MAG	MPPprobe
K17-448	295	1.47	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	295.5	1.47	MAG	MPPprobe
K17-448	296	2.77	MAG	MPPprobe
K17-448	296.5	0.17	MAG	MPPprobe
K17-448	297	1.96	MAG	MPPprobe
K17-448	297.5	0.39	MAG	MPPprobe
K17-448	298	0.76	MAG	MPPprobe
K17-448	298.5	0.8	MAG	MPPprobe
K17-448	299	0.12	MAG	MPPprobe
K17-448	299.5	0.56	MAG	MPPprobe
K17-448	300	1.2	MAG	MPPprobe
K17-448	300.5	0.27	MAG	MPPprobe
K17-448	301	0	MAG	MPPprobe
K17-448	301.5	0.04	MAG	MPPprobe
K17-448	302	0	MAG	MPPprobe
K17-448	302.5	0.23	MAG	MPPprobe
K17-448	303	0.04	MAG	MPPprobe
K17-448	303.5	0.04	MAG	MPPprobe
K17-448	304	0	MAG	MPPprobe
K17-448	304.5	0	MAG	MPPprobe
K17-448	305	0.14	MAG	MPPprobe
K17-448	305.5	0.56	MAG	MPPprobe
K17-448	306	0	MAG	MPPprobe
K17-448	306.5	0.64	MAG	MPPprobe
K17-448	307	1.69	MAG	MPPprobe
K17-448	307.5	0	MAG	MPPprobe
K17-448	308	0.54	MAG	MPPprobe
K17-448	308.5	1.28	MAG	MPPprobe
K17-448	309	0.43	MAG	MPPprobe
K17-448	309.5	0.37	MAG	MPPprobe
K17-448	310	0	MAG	MPPprobe
K17-448	310.5	0	MAG	MPPprobe
K17-448	311	0	MAG	MPPprobe
K17-448	311.5	0	MAG	MPPprobe
K17-448	312	0	MAG	MPPprobe
K17-448	312.5	0	MAG	MPPprobe
K17-448	313	0	MAG	MPPprobe
K17-448	313.5	0	MAG	MPPprobe
K17-448	314	0	MAG	MPPprobe
K17-448	314.5	0.12	MAG	MPPprobe
K17-448	315	0	MAG	MPPprobe
K17-448	315.5	0.52	MAG	MPPprobe
K17-448	316	0.41	MAG	MPPprobe
K17-448	316.5	0.54	MAG	MPPprobe
K17-448	317	0.5	MAG	MPPprobe
K17-448	317.5	0.25	MAG	MPPprobe
K17-448	318	0.37	MAG	MPPprobe
K17-448	318.5	0.43	MAG	MPPprobe
K17-448	319	0.39	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	319.5	0.17	MAG	MPPprobe
K17-448	320	1.42	MAG	MPPprobe
K17-448	320.5	0.72	MAG	MPPprobe
K17-448	321	0.93	MAG	MPPprobe
K17-448	321.5	2.44	MAG	MPPprobe
K17-448	322	0.43	MAG	MPPprobe
K17-448	322.5	3.82	MAG	MPPprobe
K17-448	323	0.23	MAG	MPPprobe
K17-448	323.5	0.02	MAG	MPPprobe
K17-448	324	0.14	MAG	MPPprobe
K17-448	324.5	0	MAG	MPPprobe
K17-448	325	0	MAG	MPPprobe
K17-448	325.5	0.25	MAG	MPPprobe
K17-448	326	0.56	MAG	MPPprobe
K17-448	326.5	0.06	MAG	MPPprobe
K17-448	327	0	MAG	MPPprobe
K17-448	327.5	0.1	MAG	MPPprobe
K17-448	328	0.17	MAG	MPPprobe
K17-448	328.5	0.62	MAG	MPPprobe
K17-448	329	0.35	MAG	MPPprobe
K17-448	329.5	0.1	MAG	MPPprobe
K17-448	330	0	MAG	MPPprobe
K17-448	330.5	0	MAG	MPPprobe
K17-448	331	0.21	MAG	MPPprobe
K17-448	331.5	0.02	MAG	MPPprobe
K17-448	332	0	MAG	MPPprobe
K17-448	332.5	2.97	MAG	MPPprobe
K17-448	333	0.29	MAG	MPPprobe
K17-448	333.5	0.39	MAG	MPPprobe
K17-448	334	0.81	MAG	MPPprobe
K17-448	334.5	2.68	MAG	MPPprobe
K17-448	335	0	MAG	MPPprobe
K17-448	335.5	1.45	MAG	MPPprobe
K17-448	336	2.37	MAG	MPPprobe
K17-448	336.5	3.37	MAG	MPPprobe
K17-448	337	0.74	MAG	MPPprobe
K17-448	337.5	0.25	MAG	MPPprobe
K17-448	338	0.45	MAG	MPPprobe
K17-448	338.5	0.25	MAG	MPPprobe
K17-448	339	0.19	MAG	MPPprobe
K17-448	339.5	0.19	MAG	MPPprobe
K17-448	340	0.64	MAG	MPPprobe
K17-448	340.5	0.12	MAG	MPPprobe
K17-448	341	0.12	MAG	MPPprobe
K17-448	341.5	0.19	MAG	MPPprobe
K17-448	342	0.72	MAG	MPPprobe
K17-448	342.5	0.6	MAG	MPPprobe
K17-448	343	1.36	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	343.5	0.1	MAG	MPPprobe
K17-448	344	0.19	MAG	MPPprobe
K17-448	344.5	0.1	MAG	MPPprobe
K17-448	345	0.02	MAG	MPPprobe
K17-448	345.5	0	MAG	MPPprobe
K17-448	346	0.23	MAG	MPPprobe
K17-448	346.5	0.7	MAG	MPPprobe
K17-448	347	0.5	MAG	MPPprobe
K17-448	347.5	0.99	MAG	MPPprobe
K17-448	348	2.11	MAG	MPPprobe
K17-448	348.5	3.41	MAG	MPPprobe
K17-448	349	1.12	MAG	MPPprobe
K17-448	349.5	0.78	MAG	MPPprobe
K17-448	350	0.68	MAG	MPPprobe
K17-448	350.5	1.2	MAG	MPPprobe
K17-448	351	4.85	MAG	MPPprobe
K17-448	351.5	2.02	MAG	MPPprobe
K17-448	352	0.64	MAG	MPPprobe
K17-448	352.5	0.52	MAG	MPPprobe
K17-448	353	0.33	MAG	MPPprobe
K17-448	353.5	0.31	MAG	MPPprobe
K17-448	354	0.12	MAG	MPPprobe
K17-448	354.5	0.37	MAG	MPPprobe
K17-448	355	0.81	MAG	MPPprobe
K17-448	355.5	0.7	MAG	MPPprobe
K17-448	356	0.85	MAG	MPPprobe
K17-448	356.5	0	MAG	MPPprobe
K17-448	357	0.45	MAG	MPPprobe
K17-448	357.5	0.12	MAG	MPPprobe
K17-448	358	0.14	MAG	MPPprobe
K17-448	358.5	0.04	MAG	MPPprobe
K17-448	359	0.06	MAG	MPPprobe
K17-448	359.5	0.1	MAG	MPPprobe
K17-448	360	0.37	MAG	MPPprobe
K17-448	360.5	0.21	MAG	MPPprobe
K17-448	361	0.06	MAG	MPPprobe
K17-448	361.5	0.29	MAG	MPPprobe
K17-448	362	0.17	MAG	MPPprobe
K17-448	362.5	0	MAG	MPPprobe
K17-448	363	0.04	MAG	MPPprobe
K17-448	363.5	0	MAG	MPPprobe
K17-448	364	0.31	MAG	MPPprobe
K17-448	364.5	0.14	MAG	MPPprobe
K17-448	365	0.12	MAG	MPPprobe
K17-448	365.5	0.04	MAG	MPPprobe
K17-448	366	0.41	MAG	MPPprobe
K17-448	366.5	0.64	MAG	MPPprobe
K17-448	367	0.52	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	367.5	0.04	MAG	MPPprobe
K17-448	368	0.91	MAG	MPPprobe
K17-448	368.5	0.47	MAG	MPPprobe
K17-448	369	0	MAG	MPPprobe
K17-448	369.5	0	MAG	MPPprobe
K17-448	370	0	MAG	MPPprobe
K17-448	370.5	0.04	MAG	MPPprobe
K17-448	371	0	MAG	MPPprobe
K17-448	371.5	0	MAG	MPPprobe
K17-448	372	0	MAG	MPPprobe
K17-448	372.5	0.16	MAG	MPPprobe
K17-448	373	0.52	MAG	MPPprobe
K17-448	373.5	0.1	MAG	MPPprobe
K17-448	374	0.35	MAG	MPPprobe
K17-448	374.5	0	MAG	MPPprobe
K17-448	375	0	MAG	MPPprobe
K17-448	375.5	0.16	MAG	MPPprobe
K17-448	376	0	MAG	MPPprobe
K17-448	376.5	0	MAG	MPPprobe
K17-448	377	0	MAG	MPPprobe
K17-448	377.5	0	MAG	MPPprobe
K17-448	378	0.14	MAG	MPPprobe
K17-448	378.5	0	MAG	MPPprobe
K17-448	379	2.12	MAG	MPPprobe
K17-448	379.5	11.3	MAG	MPPprobe
K17-448	380	0	MAG	MPPprobe
K17-448	380.5	0.16	MAG	MPPprobe
K17-448	381	0.04	MAG	MPPprobe
K17-448	381.5	0.14	MAG	MPPprobe
K17-448	382	0	MAG	MPPprobe
K17-448	382.5	0	MAG	MPPprobe
K17-448	383	0	MAG	MPPprobe
K17-448	383.5	0	MAG	MPPprobe
K17-448	384	0	MAG	MPPprobe
K17-448	384.5	0	MAG	MPPprobe
K17-448	385	0.1	MAG	MPPprobe
K17-448	385.5	0	MAG	MPPprobe
K17-448	386	0	MAG	MPPprobe
K17-448	386.5	0.16	MAG	MPPprobe
K17-448	387	0	MAG	MPPprobe
K17-448	387.5	3.03	MAG	MPPprobe
K17-448	388	4.8	MAG	MPPprobe
K17-448	388.5	0.54	MAG	MPPprobe
K17-448	389	0.23	MAG	MPPprobe
K17-448	389.5	1.38	MAG	MPPprobe
K17-448	390	0.25	MAG	MPPprobe
K17-448	390.5	0	MAG	MPPprobe
K17-448	391	0.21	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	391.5	0	MAG	MPPprobe
K17-448	392	0	MAG	MPPprobe
K17-448	392.5	0	MAG	MPPprobe
K17-448	393	1.07	MAG	MPPprobe
K17-448	393.5	4.43	MAG	MPPprobe
K17-448	394	0	MAG	MPPprobe
K17-448	394.5	0	MAG	MPPprobe
K17-448	395	0	MAG	MPPprobe
K17-448	395.5	0	MAG	MPPprobe
K17-448	396	0.12	MAG	MPPprobe
K17-448	396.5	0.12	MAG	MPPprobe
K17-448	397	0	MAG	MPPprobe
K17-448	397.5	0	MAG	MPPprobe
K17-448	398	0	MAG	MPPprobe
K17-448	398.5	0	MAG	MPPprobe
K17-448	399	5.92	MAG	MPPprobe
K17-448	399.5	1.63	MAG	MPPprobe
K17-448	400	0.78	MAG	MPPprobe
K17-448	400.5	4.76	MAG	MPPprobe
K17-448	401	1.63	MAG	MPPprobe
K17-448	401.5	0.41	MAG	MPPprobe
K17-448	402	3.32	MAG	MPPprobe
K17-448	402.5	0	MAG	MPPprobe
K17-448	403	0.66	MAG	MPPprobe
K17-448	403.5	4.1	MAG	MPPprobe
K17-448	404	2.37	MAG	MPPprobe
K17-448	404.5	0.6	MAG	MPPprobe
K17-448	405	1.09	MAG	MPPprobe
K17-448	405.5	5.17	MAG	MPPprobe
K17-448	406	2.19	MAG	MPPprobe
K17-448	406.5	0	MAG	MPPprobe
K17-448	407	1.38	MAG	MPPprobe
K17-448	407.5	0.08	MAG	MPPprobe
K17-448	408	0.29	MAG	MPPprobe
K17-448	408.5	0.02	MAG	MPPprobe
K17-448	409	0.54	MAG	MPPprobe
K17-448	409.5	11.7	MAG	MPPprobe
K17-448	410	0	MAG	MPPprobe
K17-448	410.5	10	MAG	MPPprobe
K17-448	411	0.25	MAG	MPPprobe
K17-448	411.5	0.97	MAG	MPPprobe
K17-448	412	1.3	MAG	MPPprobe
K17-448	412.5	0.37	MAG	MPPprobe
K17-448	413	0.49	MAG	MPPprobe
K17-448	413.5	0.1	MAG	MPPprobe
K17-448	414	0.14	MAG	MPPprobe
K17-448	414.5	0.23	MAG	MPPprobe
K17-448	415	0.7	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	415.5	0.66	MAG	MPPprobe
K17-448	416	0.91	MAG	MPPprobe
K17-448	416.5	3.75	MAG	MPPprobe
K17-448	417	10	MAG	MPPprobe
K17-448	417.5	7.34	MAG	MPPprobe
K17-448	418	9.32	MAG	MPPprobe
K17-448	418.5	0.56	MAG	MPPprobe
K17-448	419	0.08	MAG	MPPprobe
K17-448	419.5	0.1	MAG	MPPprobe
K17-448	420	0.35	MAG	MPPprobe
K17-448	420.5	0.16	MAG	MPPprobe
K17-448	421	0	MAG	MPPprobe
K17-448	421.5	0.08	MAG	MPPprobe
K17-448	422	0.52	MAG	MPPprobe
K17-448	422.5	0.39	MAG	MPPprobe
K17-448	423	0	MAG	MPPprobe
K17-448	423.5	0.14	MAG	MPPprobe
K17-448	424	0	MAG	MPPprobe
K17-448	424.5	0	MAG	MPPprobe
K17-448	425	0	MAG	MPPprobe
K17-448	425.5	0	MAG	MPPprobe
K17-448	426	0	MAG	MPPprobe
K17-448	426.5	0.19	MAG	MPPprobe
K17-448	427	0.37	MAG	MPPprobe
K17-448	427.5	0.7	MAG	MPPprobe
K17-448	428	5.07	MAG	MPPprobe
K17-448	428.5	2	MAG	MPPprobe
K17-448	429	1.32	MAG	MPPprobe
K17-448	429.5	2.41	MAG	MPPprobe
K17-448	430	2.14	MAG	MPPprobe
K17-448	430.5	4.82	MAG	MPPprobe
K17-448	431	1.55	MAG	MPPprobe
K17-448	431.5	2.1	MAG	MPPprobe
K17-448	432	17.8	MAG	MPPprobe
K17-448	432.5	0.14	MAG	MPPprobe
K17-448	433	0	MAG	MPPprobe
K17-448	433.5	0.6	MAG	MPPprobe
K17-448	434	0	MAG	MPPprobe
K17-448	434.5	0.7	MAG	MPPprobe
K17-448	435	0.33	MAG	MPPprobe
K17-448	435.5	3.13	MAG	MPPprobe
K17-448	436	22.3	MAG	MPPprobe
K17-448	436.5	8.2	MAG	MPPprobe
K17-448	437	11.6	MAG	MPPprobe
K17-448	437.5	2.31	MAG	MPPprobe
K17-448	438	8.24	MAG	MPPprobe
K17-448	438.5	8.64	MAG	MPPprobe
K17-448	439	0.33	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	439.5	1.42	MAG	MPPprobe
K17-448	440	3.52	MAG	MPPprobe
K17-448	440.5	3.19	MAG	MPPprobe
K17-448	441	7.34	MAG	MPPprobe
K17-448	441.5	8.99	MAG	MPPprobe
K17-448	442	5.44	MAG	MPPprobe
K17-448	442.5	4.93	MAG	MPPprobe
K17-448	443	9.34	MAG	MPPprobe
K17-448	443.5	0.45	MAG	MPPprobe
K17-448	444	0	MAG	MPPprobe
K17-448	444.5	0	MAG	MPPprobe
K17-448	445	17.6	MAG	MPPprobe
K17-448	445.5	15.3	MAG	MPPprobe
K17-448	446	7.98	MAG	MPPprobe
K17-448	446.5	4.37	MAG	MPPprobe
K17-448	447	27.8	MAG	MPPprobe
K17-448	447.5	1.53	MAG	MPPprobe
K17-448	448	0.58	MAG	MPPprobe
K17-448	448.5	0.62	MAG	MPPprobe
K17-448	449	1.53	MAG	MPPprobe
K17-448	449.5	16.9	MAG	MPPprobe
K17-448	450	19.1	MAG	MPPprobe
K17-448	450.5	3.22	MAG	MPPprobe
K17-448	451	2.21	MAG	MPPprobe
K17-448	451.5	0.08	MAG	MPPprobe
K17-448	452	0.43	MAG	MPPprobe
K17-448	452.5	0.47	MAG	MPPprobe
K17-448	453	0.33	MAG	MPPprobe
K17-448	453.5	0.95	MAG	MPPprobe
K17-448	454	0	MAG	MPPprobe
K17-448	454.5	0.12	MAG	MPPprobe
K17-448	455	0.6	MAG	MPPprobe
K17-448	455.5	0	MAG	MPPprobe
K17-448	456	0.54	MAG	MPPprobe
K17-448	456.5	0.29	MAG	MPPprobe
K17-448	457	0.23	MAG	MPPprobe
K17-448	457.5	0.1	MAG	MPPprobe
K17-448	458	0.02	MAG	MPPprobe
K17-448	458.5	0	MAG	MPPprobe
K17-448	459	0.72	MAG	MPPprobe
K17-448	459.5	0	MAG	MPPprobe
K17-448	460	1.63	MAG	MPPprobe
K17-448	460.5	16.5	MAG	MPPprobe
K17-448	461	24.8	MAG	MPPprobe
K17-448	461.5	5.03	MAG	MPPprobe
K17-448	462	35.6	MAG	MPPprobe
K17-448	462.5	29.1	MAG	MPPprobe
K17-448	463	3.05	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	463.5	3.57	MAG	MPPprobe
K17-448	464	2.68	MAG	MPPprobe
K17-448	464.5	0.16	MAG	MPPprobe
K17-448	465	1.57	MAG	MPPprobe
K17-448	465.5	1.42	MAG	MPPprobe
K17-448	466	0.76	MAG	MPPprobe
K17-448	466.5	2.02	MAG	MPPprobe
K17-448	467	0.41	MAG	MPPprobe
K17-448	467.5	0.1	MAG	MPPprobe
K17-448	468	0.68	MAG	MPPprobe
K17-448	468.5	0.35	MAG	MPPprobe
K17-448	469	0	MAG	MPPprobe
K17-448	469.5	20.3	MAG	MPPprobe
K17-448	470	0.16	MAG	MPPprobe
K17-448	470.5	0.41	MAG	MPPprobe
K17-448	471	13	MAG	MPPprobe
K17-448	471.5	6.29	MAG	MPPprobe
K17-448	472	3.24	MAG	MPPprobe
K17-448	472.5	29.8	MAG	MPPprobe
K17-448	473	1.03	MAG	MPPprobe
K17-448	473.5	0.64	MAG	MPPprobe
K17-448	474	0.68	MAG	MPPprobe
K17-448	474.5	0.56	MAG	MPPprobe
K17-448	475	1.01	MAG	MPPprobe
K17-448	475.5	0.27	MAG	MPPprobe
K17-448	476	1.32	MAG	MPPprobe
K17-448	476.5	0.35	MAG	MPPprobe
K17-448	477	0	MAG	MPPprobe
K17-448	477.5	1.38	MAG	MPPprobe
K17-448	478	0.12	MAG	MPPprobe
K17-448	478.5	0.1	MAG	MPPprobe
K17-448	479	0.7	MAG	MPPprobe
K17-448	479.5	3.65	MAG	MPPprobe
K17-448	480	0.31	MAG	MPPprobe
K17-448	480.5	0	MAG	MPPprobe
K17-448	481	0.14	MAG	MPPprobe
K17-448	481.5	0.47	MAG	MPPprobe
K17-448	482	0.97	MAG	MPPprobe
K17-448	482.5	1.36	MAG	MPPprobe
K17-448	483	0.91	MAG	MPPprobe
K17-448	483.5	1.28	MAG	MPPprobe
K17-448	484	3.6	MAG	MPPprobe
K17-448	484.5	0.29	MAG	MPPprobe
K17-448	485	1.36	MAG	MPPprobe
K17-448	485.5	0.54	MAG	MPPprobe
K17-448	486	0.62	MAG	MPPprobe
K17-448	486.5	0.23	MAG	MPPprobe
K17-448	487	0.87	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	487.5	10.2	MAG	MPPprobe
K17-448	488	8.19	MAG	MPPprobe
K17-448	488.5	1.84	MAG	MPPprobe
K17-448	489	0.93	MAG	MPPprobe
K17-448	489.5	1.53	MAG	MPPprobe
K17-448	490	1.43	MAG	MPPprobe
K17-448	490.5	0.95	MAG	MPPprobe
K17-448	491	0.23	MAG	MPPprobe
K17-448	491.5	0.72	MAG	MPPprobe
K17-448	492	0	MAG	MPPprobe
K17-448	492.5	0.41	MAG	MPPprobe
K17-448	493	0	MAG	MPPprobe
K17-448	493.5	0.21	MAG	MPPprobe
K17-448	494	0.08	MAG	MPPprobe
K17-448	494.5	0	MAG	MPPprobe
K17-448	495	0	MAG	MPPprobe
K17-448	495.5	9.22	MAG	MPPprobe
K17-448	496	1.1	MAG	MPPprobe
K17-448	496.5	0.52	MAG	MPPprobe
K17-448	497	0	MAG	MPPprobe
K17-448	497.5	0	MAG	MPPprobe
K17-448	498	0	MAG	MPPprobe
K17-448	498.5	0	MAG	MPPprobe
K17-448	499	0.62	MAG	MPPprobe
K17-448	499.5	0.83	MAG	MPPprobe
K17-448	500	0.54	MAG	MPPprobe
K17-448	500.5	0	MAG	MPPprobe
K17-448	501	0	MAG	MPPprobe
K17-448	501.5	0	MAG	MPPprobe
K17-448	502	0.08	MAG	MPPprobe
K17-448	502.5	0	MAG	MPPprobe
K17-448	503	0	MAG	MPPprobe
K17-448	503.5	0	MAG	MPPprobe
K17-448	504	0	MAG	MPPprobe
K17-448	504.5	0.97	MAG	MPPprobe
K17-448	505	0.83	MAG	MPPprobe
K17-448	505.5	0.02	MAG	MPPprobe
K17-448	506	2.19	MAG	MPPprobe
K17-448	506.5	0.64	MAG	MPPprobe
K17-448	507	1.72	MAG	MPPprobe
K17-448	507.5	9.94	MAG	MPPprobe
K17-448	508	4.42	MAG	MPPprobe
K17-448	508.5	3.47	MAG	MPPprobe
K17-448	509	1.94	MAG	MPPprobe
K17-448	509.5	21.4	MAG	MPPprobe
K17-448	510	0.83	MAG	MPPprobe
K17-448	510.5	1.01	MAG	MPPprobe
K17-448	511	0.27	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	511.5	0	MAG	MPPprobe
K17-448	512	0.25	MAG	MPPprobe
K17-448	512.5	0.25	MAG	MPPprobe
K17-448	513	0.12	MAG	MPPprobe
K17-448	513.5	0.58	MAG	MPPprobe
K17-448	514	0.25	MAG	MPPprobe
K17-448	514.5	1.55	MAG	MPPprobe
K17-448	515	0.12	MAG	MPPprobe
K17-448	515.5	0.04	MAG	MPPprobe
K17-448	516	0.14	MAG	MPPprobe
K17-448	516.5	0.56	MAG	MPPprobe
K17-448	517	0.1	MAG	MPPprobe
K17-448	517.5	0.12	MAG	MPPprobe
K17-448	518	0	MAG	MPPprobe
K17-448	518.5	0.1	MAG	MPPprobe
K17-448	519	0.06	MAG	MPPprobe
K17-448	519.5	0.58	MAG	MPPprobe
K17-448	520	0.31	MAG	MPPprobe
K17-448	520.5	0.12	MAG	MPPprobe
K17-448	521	0	MAG	MPPprobe
K17-448	521.5	0	MAG	MPPprobe
K17-448	522	0.02	MAG	MPPprobe
K17-448	522.5	0	MAG	MPPprobe
K17-448	523	0.39	MAG	MPPprobe
K17-448	523.5	0.97	MAG	MPPprobe
K17-448	524	0.08	MAG	MPPprobe
K17-448	524.5	0.99	MAG	MPPprobe
K17-448	525	0.06	MAG	MPPprobe
K17-448	525.5	0.08	MAG	MPPprobe
K17-448	526	0.62	MAG	MPPprobe
K17-448	526.5	4.03	MAG	MPPprobe
K17-448	527	3.43	MAG	MPPprobe
K17-448	527.5	2.65	MAG	MPPprobe
K17-448	528	1.9	MAG	MPPprobe
K17-448	528.5	0.45	MAG	MPPprobe
K17-448	529	1.18	MAG	MPPprobe
K17-448	529.5	0.87	MAG	MPPprobe
K17-448	530	1.34	MAG	MPPprobe
K17-448	530.5	3.58	MAG	MPPprobe
K17-448	531	14.1	MAG	MPPprobe
K17-448	531.5	12.6	MAG	MPPprobe
K17-448	532	4.53	MAG	MPPprobe
K17-448	532.5	6.51	MAG	MPPprobe
K17-448	533	0.29	MAG	MPPprobe
K17-448	533.5	0	MAG	MPPprobe
K17-448	534	0.27	MAG	MPPprobe
K17-448	534.5	0.14	MAG	MPPprobe
K17-448	535	7.05	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	535.5	0	MAG	MPPprobe
K17-448	536	2.73	MAG	MPPprobe
K17-448	536.5	2.36	MAG	MPPprobe
K17-448	537	13.8	MAG	MPPprobe
K17-448	537.5	0.68	MAG	MPPprobe
K17-448	538	2.6	MAG	MPPprobe
K17-448	538.5	34.6	MAG	MPPprobe
K17-448	539	5.58	MAG	MPPprobe
K17-448	539.5	1.45	MAG	MPPprobe
K17-448	540	1.3	MAG	MPPprobe
K17-448	540.5	0.93	MAG	MPPprobe
K17-448	541	2.34	MAG	MPPprobe
K17-448	541.5	1.3	MAG	MPPprobe
K17-448	542	1.96	MAG	MPPprobe
K17-448	542.5	5.77	MAG	MPPprobe
K17-448	543	6.66	MAG	MPPprobe
K17-448	543.5	19.4	MAG	MPPprobe
K17-448	544	7.09	MAG	MPPprobe
K17-448	544.5	8.14	MAG	MPPprobe
K17-448	545	2.42	MAG	MPPprobe
K17-448	545.5	4.57	MAG	MPPprobe
K17-448	546	1.01	MAG	MPPprobe
K17-448	546.5	0.91	MAG	MPPprobe
K17-448	547	2.48	MAG	MPPprobe
K17-448	547.5	3.6	MAG	MPPprobe
K17-448	548	0.08	MAG	MPPprobe
K17-448	548.5	0	MAG	MPPprobe
K17-448	549	0	MAG	MPPprobe
K17-448	549.5	0.04	MAG	MPPprobe
K17-448	550	0	MAG	MPPprobe
K17-448	550.5	0	MAG	MPPprobe
K17-448	551	0	MAG	MPPprobe
K17-448	551.5	0.02	MAG	MPPprobe
K17-448	552	0.04	MAG	MPPprobe
K17-448	552.5	0.12	MAG	MPPprobe
K17-448	553	0.19	MAG	MPPprobe
K17-448	553.5	0.74	MAG	MPPprobe
K17-448	554	1.24	MAG	MPPprobe
K17-448	554.5	0.97	MAG	MPPprobe
K17-448	555	0.74	MAG	MPPprobe
K17-448	555.5	0	MAG	MPPprobe
K17-448	556	0.06	MAG	MPPprobe
K17-448	556.5	0.19	MAG	MPPprobe
K17-448	557	3.06	MAG	MPPprobe
K17-448	557.5	0.17	MAG	MPPprobe
K17-448	558	0.64	MAG	MPPprobe
K17-448	558.5	0.37	MAG	MPPprobe
K17-448	559	0.52	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	559.5	0.68	MAG	MPPprobe
K17-448	560	0	MAG	MPPprobe
K17-448	560.5	0.12	MAG	MPPprobe
K17-448	561	0	MAG	MPPprobe
K17-448	561.5	0	MAG	MPPprobe
K17-448	562	0.04	MAG	MPPprobe
K17-448	562.5	0	MAG	MPPprobe
K17-448	563	0.31	MAG	MPPprobe
K17-448	563.5	0.93	MAG	MPPprobe
K17-448	564	0.85	MAG	MPPprobe
K17-448	564.5	2.05	MAG	MPPprobe
K17-448	565	1.51	MAG	MPPprobe
K17-448	565.5	0.25	MAG	MPPprobe
K17-448	566	1.28	MAG	MPPprobe
K17-448	566.5	0.06	MAG	MPPprobe
K17-448	567	0	MAG	MPPprobe
K17-448	567.5	0.25	MAG	MPPprobe
K17-448	568	0	MAG	MPPprobe
K17-448	568.5	0	MAG	MPPprobe
K17-448	569	4.05	MAG	MPPprobe
K17-448	569.5	4.4	MAG	MPPprobe
K17-448	570	0.31	MAG	MPPprobe
K17-448	570.5	0.74	MAG	MPPprobe
K17-448	571	10.7	MAG	MPPprobe
K17-448	571.5	37.7	MAG	MPPprobe
K17-448	572	24.8	MAG	MPPprobe
K17-448	572.5	3.76	MAG	MPPprobe
K17-448	573	19.2	MAG	MPPprobe
K17-448	573.5	1.57	MAG	MPPprobe
K17-448	574	1.41	MAG	MPPprobe
K17-448	574.5	2.54	MAG	MPPprobe
K17-448	575	0.95	MAG	MPPprobe
K17-448	575.5	1.55	MAG	MPPprobe
K17-448	576	1.51	MAG	MPPprobe
K17-448	576.5	1.8	MAG	MPPprobe
K17-448	577	0.5	MAG	MPPprobe
K17-448	577.5	2.03	MAG	MPPprobe
K17-448	578	1.12	MAG	MPPprobe
K17-448	578.5	4.65	MAG	MPPprobe
K17-448	579	0.97	MAG	MPPprobe
K17-448	579.5	0	MAG	MPPprobe
K17-448	580	0.37	MAG	MPPprobe
K17-448	580.5	25.7	MAG	MPPprobe
K17-448	581	1.16	MAG	MPPprobe
K17-448	581.5	0.5	MAG	MPPprobe
K17-448	582	0.33	MAG	MPPprobe
K17-448	582.5	0.76	MAG	MPPprobe
K17-448	583	0.23	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	583.5	0.21	MAG	MPPprobe
K17-448	584	0.17	MAG	MPPprobe
K17-448	584.5	0.08	MAG	MPPprobe
K17-448	585	0	MAG	MPPprobe
K17-448	585.5	0	MAG	MPPprobe
K17-448	586	0	MAG	MPPprobe
K17-448	586.5	0.12	MAG	MPPprobe
K17-448	587	0.23	MAG	MPPprobe
K17-448	587.5	0	MAG	MPPprobe
K17-448	588	0.19	MAG	MPPprobe
K17-448	588.5	0.25	MAG	MPPprobe
K17-448	589	0.12	MAG	MPPprobe
K17-448	589.5	0.02	MAG	MPPprobe
K17-448	590	0	MAG	MPPprobe
K17-448	590.5	0	MAG	MPPprobe
K17-448	591	0.19	MAG	MPPprobe
K17-448	591.5	7.46	MAG	MPPprobe
K17-448	592	0.02	MAG	MPPprobe
K17-448	592.5	0	MAG	MPPprobe
K17-448	593	0	MAG	MPPprobe
K17-448	593.5	0	MAG	MPPprobe
K17-448	594	5.37	MAG	MPPprobe
K17-448	594.5	7.38	MAG	MPPprobe
K17-448	595	0.14	MAG	MPPprobe
K17-448	595.5	0.06	MAG	MPPprobe
K17-448	596	0	MAG	MPPprobe
K17-448	596.5	0.06	MAG	MPPprobe
K17-448	597	0.02	MAG	MPPprobe
K17-448	597.5	0.02	MAG	MPPprobe
K17-448	598	0	MAG	MPPprobe
K17-448	598.5	0.04	MAG	MPPprobe
K17-448	599	0.21	MAG	MPPprobe
K17-448	599.5	0.35	MAG	MPPprobe
K17-448	600	0	MAG	MPPprobe
K17-448	600.5	14.5	MAG	MPPprobe
K17-448	601	25.7	MAG	MPPprobe
K17-448	601.5	0	MAG	MPPprobe
K17-448	602	0.17	MAG	MPPprobe
K17-448	602.5	26.7	MAG	MPPprobe
K17-448	603	1.94	MAG	MPPprobe
K17-448	603.5	2.15	MAG	MPPprobe
K17-448	604	2.81	MAG	MPPprobe
K17-448	604.5	0.02	MAG	MPPprobe
K17-448	605	0	MAG	MPPprobe
K17-448	605.5	17.3	MAG	MPPprobe
K17-448	606	20.6	MAG	MPPprobe
K17-448	606.5	0	MAG	MPPprobe
K17-448	607	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	607.5	0	MAG	MPPprobe
K17-448	608	0	MAG	MPPprobe
K17-448	608.5	0.21	MAG	MPPprobe
K17-448	609	0	MAG	MPPprobe
K17-448	609.5	1.32	MAG	MPPprobe
K17-448	610	3.12	MAG	MPPprobe
K17-448	610.5	0.14	MAG	MPPprobe
K17-448	611	0.25	MAG	MPPprobe
K17-448	611.5	0	MAG	MPPprobe
K17-448	612	0	MAG	MPPprobe
K17-448	612.5	0	MAG	MPPprobe
K17-448	613	0	MAG	MPPprobe
K17-448	613.5	0.02	MAG	MPPprobe
K17-448	614	0	MAG	MPPprobe
K17-448	614.5	0.31	MAG	MPPprobe
K17-448	615	0.02	MAG	MPPprobe
K17-448	615.5	0.83	MAG	MPPprobe
K17-448	616	0	MAG	MPPprobe
K17-448	616.5	0	MAG	MPPprobe
K17-448	617	0	MAG	MPPprobe
K17-448	617.5	0	MAG	MPPprobe
K17-448	618	0	MAG	MPPprobe
K17-448	618.5	0	MAG	MPPprobe
K17-448	619	0.06	MAG	MPPprobe
K17-448	619.5	0	MAG	MPPprobe
K17-448	620	0	MAG	MPPprobe
K17-448	620.5	0.04	MAG	MPPprobe
K17-448	621	31.4	MAG	MPPprobe
K17-448	621.5	7.13	MAG	MPPprobe
K17-448	622	11	MAG	MPPprobe
K17-448	622.5	25.6	MAG	MPPprobe
K17-448	623	25.8	MAG	MPPprobe
K17-448	623.5	0.93	MAG	MPPprobe
K17-448	624	0.54	MAG	MPPprobe
K17-448	624.5	0.23	MAG	MPPprobe
K17-448	625	0.12	MAG	MPPprobe
K17-448	625.5	0	MAG	MPPprobe
K17-448	626	0	MAG	MPPprobe
K17-448	626.5	0	MAG	MPPprobe
K17-448	627	0	MAG	MPPprobe
K17-448	627.5	0.17	MAG	MPPprobe
K17-448	628	0	MAG	MPPprobe
K17-448	628.5	0.04	MAG	MPPprobe
K17-448	629	0	MAG	MPPprobe
K17-448	629.5	0	MAG	MPPprobe
K17-448	630	0.39	MAG	MPPprobe
K17-448	630.5	0.45	MAG	MPPprobe
K17-448	631	0.54	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	631.5	0.72	MAG	MPPprobe
K17-448	632	0.99	MAG	MPPprobe
K17-448	632.5	5.23	MAG	MPPprobe
K17-448	633	0.76	MAG	MPPprobe
K17-448	633.5	3.72	MAG	MPPprobe
K17-448	634	1.43	MAG	MPPprobe
K17-448	634.5	1.05	MAG	MPPprobe
K17-448	635	3.14	MAG	MPPprobe
K17-448	635.5	0.04	MAG	MPPprobe
K17-448	636	5.46	MAG	MPPprobe
K17-448	636.5	0.72	MAG	MPPprobe
K17-448	637	0	MAG	MPPprobe
K17-448	637.5	0	MAG	MPPprobe
K17-448	638	0	MAG	MPPprobe
K17-448	638.5	0	MAG	MPPprobe
K17-448	639	0	MAG	MPPprobe
K17-448	639.5	0	MAG	MPPprobe
K17-448	640	0.31	MAG	MPPprobe
K17-448	640.5	0	MAG	MPPprobe
K17-448	641	0.93	MAG	MPPprobe
K17-448	641.5	0.27	MAG	MPPprobe
K17-448	642	4.79	MAG	MPPprobe
K17-448	642.5	0.08	MAG	MPPprobe
K17-448	643	0	MAG	MPPprobe
K17-448	643.5	0	MAG	MPPprobe
K17-448	644	0	MAG	MPPprobe
K17-448	644.5	0	MAG	MPPprobe
K17-448	645	0	MAG	MPPprobe
K17-448	645.5	0	MAG	MPPprobe
K17-448	646	0	MAG	MPPprobe
K17-448	646.5	0	MAG	MPPprobe
K17-448	647	0	MAG	MPPprobe
K17-448	647.5	0	MAG	MPPprobe
K17-448	648	0.52	MAG	MPPprobe
K17-448	648.5	0.54	MAG	MPPprobe
K17-448	649	0.23	MAG	MPPprobe
K17-448	649.5	0.31	MAG	MPPprobe
K17-448	650	0	MAG	MPPprobe
K17-448	650.5	0.08	MAG	MPPprobe
K17-448	651	0.12	MAG	MPPprobe
K17-448	651.5	0	MAG	MPPprobe
K17-448	652	0.02	MAG	MPPprobe
K17-448	652.5	0.02	MAG	MPPprobe
K17-448	653	0	MAG	MPPprobe
K17-448	653.5	0.04	MAG	MPPprobe
K17-448	654	0.06	MAG	MPPprobe
K17-448	654.5	0	MAG	MPPprobe
K17-448	655	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	655.5	0	MAG	MPPprobe
K17-448	656	0	MAG	MPPprobe
K17-448	656.5	0	MAG	MPPprobe
K17-448	657	0.1	MAG	MPPprobe
K17-448	657.5	0.1	MAG	MPPprobe
K17-448	658	0.04	MAG	MPPprobe
K17-448	658.5	0.19	MAG	MPPprobe
K17-448	659	0	MAG	MPPprobe
K17-448	659.5	0.06	MAG	MPPprobe
K17-448	660	0	MAG	MPPprobe
K17-448	660.5	0	MAG	MPPprobe
K17-448	661	0	MAG	MPPprobe
K17-448	661.5	0	MAG	MPPprobe
K17-448	662	0.43	MAG	MPPprobe
K17-448	662.5	0	MAG	MPPprobe
K17-448	663	0	MAG	MPPprobe
K17-448	663.5	0	MAG	MPPprobe
K17-448	664	0	MAG	MPPprobe
K17-448	664.5	0	MAG	MPPprobe
K17-448	665	0	MAG	MPPprobe
K17-448	665.5	0.1	MAG	MPPprobe
K17-448	666	0	MAG	MPPprobe
K17-448	666.5	0	MAG	MPPprobe
K17-448	667	0.12	MAG	MPPprobe
K17-448	667.5	0.06	MAG	MPPprobe
K17-448	668	0.14	MAG	MPPprobe
K17-448	668.5	0	MAG	MPPprobe
K17-448	669	0	MAG	MPPprobe
K17-448	669.5	0.04	MAG	MPPprobe
K17-448	670	0.02	MAG	MPPprobe
K17-448	670.5	0	MAG	MPPprobe
K17-448	671	0	MAG	MPPprobe
K17-448	671.5	0.27	MAG	MPPprobe
K17-448	672	0	MAG	MPPprobe
K17-448	672.5	0	MAG	MPPprobe
K17-448	673	0	MAG	MPPprobe
K17-448	673.5	0.04	MAG	MPPprobe
K17-448	674	0	MAG	MPPprobe
K17-448	674.5	0.14	MAG	MPPprobe
K17-448	675	0	MAG	MPPprobe
K17-448	675.5	0	MAG	MPPprobe
K17-448	676	0.06	MAG	MPPprobe
K17-448	676.5	0	MAG	MPPprobe
K17-448	677	0	MAG	MPPprobe
K17-448	677.5	0	MAG	MPPprobe
K17-448	678	0	MAG	MPPprobe
K17-448	678.5	0	MAG	MPPprobe
K17-448	679	0.02	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	679.5	0	MAG	MPPprobe
K17-448	680	0	MAG	MPPprobe
K17-448	680.5	6.78	MAG	MPPprobe
K17-448	681	1.2	MAG	MPPprobe
K17-448	681.5	1.88	MAG	MPPprobe
K17-448	682	1.82	MAG	MPPprobe
K17-448	682.5	1.78	MAG	MPPprobe
K17-448	683	0.64	MAG	MPPprobe
K17-448	683.5	0.14	MAG	MPPprobe
K17-448	684	8.47	MAG	MPPprobe
K17-448	684.5	0	MAG	MPPprobe
K17-448	685	0	MAG	MPPprobe
K17-448	685.5	0.04	MAG	MPPprobe
K17-448	686	0	MAG	MPPprobe
K17-448	686.5	0	MAG	MPPprobe
K17-448	687	0	MAG	MPPprobe
K17-448	687.5	0	MAG	MPPprobe
K17-448	688	0	MAG	MPPprobe
K17-448	688.5	0	MAG	MPPprobe
K17-448	689	0.31	MAG	MPPprobe
K17-448	689.5	0	MAG	MPPprobe
K17-448	690	0	MAG	MPPprobe
K17-448	690.5	0.02	MAG	MPPprobe
K17-448	691	0	MAG	MPPprobe
K17-448	691.5	0	MAG	MPPprobe
K17-448	692	0	MAG	MPPprobe
K17-448	692.5	0	MAG	MPPprobe
K17-448	693	0.1	MAG	MPPprobe
K17-448	693.5	0	MAG	MPPprobe
K17-448	694	0.27	MAG	MPPprobe
K17-448	694.5	0.02	MAG	MPPprobe
K17-448	695	0.12	MAG	MPPprobe
K17-448	695.5	0.14	MAG	MPPprobe
K17-448	696	0.19	MAG	MPPprobe
K17-448	696.5	0.06	MAG	MPPprobe
K17-448	697	0.17	MAG	MPPprobe
K17-448	697.5	0.04	MAG	MPPprobe
K17-448	698	0	MAG	MPPprobe
K17-448	698.5	0.21	MAG	MPPprobe
K17-448	699	0.7	MAG	MPPprobe
K17-448	699.5	0.04	MAG	MPPprobe
K17-448	700	5.48	MAG	MPPprobe
K17-448	700.5	0.95	MAG	MPPprobe
K17-448	701	0.76	MAG	MPPprobe
K17-448	701.5	1.05	MAG	MPPprobe
K17-448	702	2.25	MAG	MPPprobe
K17-448	702.5	1.01	MAG	MPPprobe
K17-448	703	0.72	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	703.5	0.74	MAG	MPPprobe
K17-448	704	1.16	MAG	MPPprobe
K17-448	704.5	1.47	MAG	MPPprobe
K17-448	705	0.62	MAG	MPPprobe
K17-448	705.5	1.45	MAG	MPPprobe
K17-448	706	1.76	MAG	MPPprobe
K17-448	706.5	1.01	MAG	MPPprobe
K17-448	707	0.85	MAG	MPPprobe
K17-448	707.5	3.39	MAG	MPPprobe
K17-448	708	0	MAG	MPPprobe
K17-448	708.5	0	MAG	MPPprobe
K17-448	709	1.12	MAG	MPPprobe
K17-448	709.5	0.02	MAG	MPPprobe
K17-448	710	0	MAG	MPPprobe
K17-448	710.5	0.1	MAG	MPPprobe
K17-448	711	0.06	MAG	MPPprobe
K17-448	711.5	0	MAG	MPPprobe
K17-448	712	0.08	MAG	MPPprobe
K17-448	712.5	0	MAG	MPPprobe
K17-448	713	0.39	MAG	MPPprobe
K17-448	713.5	0.91	MAG	MPPprobe
K17-448	714	0.12	MAG	MPPprobe
K17-448	714.5	0.23	MAG	MPPprobe
K17-448	715	0.02	MAG	MPPprobe
K17-448	715.5	0.12	MAG	MPPprobe
K17-448	716	0.12	MAG	MPPprobe
K17-448	716.5	0.31	MAG	MPPprobe
K17-448	717	0.31	MAG	MPPprobe
K17-448	717.5	0.45	MAG	MPPprobe
K17-448	718	21.9	MAG	MPPprobe
K17-448	718.5	29.3	MAG	MPPprobe
K17-448	719	0.52	MAG	MPPprobe
K17-448	719.5	0.29	MAG	MPPprobe
K17-448	720	0.19	MAG	MPPprobe
K17-448	720.5	0.35	MAG	MPPprobe
K17-448	721	1.53	MAG	MPPprobe
K17-448	721.5	1.22	MAG	MPPprobe
K17-448	722	0.19	MAG	MPPprobe
K17-448	722.5	0.27	MAG	MPPprobe
K17-448	723	0.56	MAG	MPPprobe
K17-448	723.5	0.85	MAG	MPPprobe
K17-448	724	0.12	MAG	MPPprobe
K17-448	724.5	0.62	MAG	MPPprobe
K17-448	725	3.39	MAG	MPPprobe
K17-448	725.5	1.49	MAG	MPPprobe
K17-448	726	1.14	MAG	MPPprobe
K17-448	726.5	0.19	MAG	MPPprobe
K17-448	727	0.14	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	727.5	11.7	MAG	MPPprobe
K17-448	728	18.1	MAG	MPPprobe
K17-448	728.5	6.28	MAG	MPPprobe
K17-448	729	5.45	MAG	MPPprobe
K17-448	729.5	1.69	MAG	MPPprobe
K17-448	730	12.6	MAG	MPPprobe
K17-448	730.5	7.99	MAG	MPPprobe
K17-448	731	12.5	MAG	MPPprobe
K17-448	731.5	1.76	MAG	MPPprobe
K17-448	732	0.58	MAG	MPPprobe
K17-448	732.5	0.54	MAG	MPPprobe
K17-448	733	0.95	MAG	MPPprobe
K17-448	733.5	1.26	MAG	MPPprobe
K17-448	734	1.09	MAG	MPPprobe
K17-448	734.5	0.62	MAG	MPPprobe
K17-448	735	0.35	MAG	MPPprobe
K17-448	735.5	9.29	MAG	MPPprobe
K17-448	736	1.07	MAG	MPPprobe
K17-448	736.5	1.63	MAG	MPPprobe
K17-448	737	6.59	MAG	MPPprobe
K17-448	737.5	2.46	MAG	MPPprobe
K17-448	738	0.25	MAG	MPPprobe
K17-448	738.5	0.5	MAG	MPPprobe
K17-448	739	0.23	MAG	MPPprobe
K17-448	739.5	0.23	MAG	MPPprobe
K17-448	740	0.27	MAG	MPPprobe
K17-448	740.5	0	MAG	MPPprobe
K17-448	741	0.37	MAG	MPPprobe
K17-448	741.5	0.04	MAG	MPPprobe
K17-448	742	0.17	MAG	MPPprobe
K17-448	742.5	0.91	MAG	MPPprobe
K17-448	743	0.58	MAG	MPPprobe
K17-448	743.5	0.12	MAG	MPPprobe
K17-448	744	0.25	MAG	MPPprobe
K17-448	744.5	0.21	MAG	MPPprobe
K17-448	745	0.14	MAG	MPPprobe
K17-448	745.5	0.06	MAG	MPPprobe
K17-448	746	0	MAG	MPPprobe
K17-448	746.5	0.08	MAG	MPPprobe
K17-448	747	0.21	MAG	MPPprobe
K17-448	747.5	0	MAG	MPPprobe
K17-448	748	0.02	MAG	MPPprobe
K17-448	748.5	0.21	MAG	MPPprobe
K17-448	749	0.23	MAG	MPPprobe
K17-448	749.5	0.31	MAG	MPPprobe
K17-448	750	0.25	MAG	MPPprobe
K17-448	750.5	0.23	MAG	MPPprobe
K17-448	751	0.5	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	751.5	5.43	MAG	MPPprobe
K17-448	752	0.89	MAG	MPPprobe
K17-448	752.5	1.28	MAG	MPPprobe
K17-448	753	1.34	MAG	MPPprobe
K17-448	753.5	1.98	MAG	MPPprobe
K17-448	754	1.53	MAG	MPPprobe
K17-448	754.5	4.44	MAG	MPPprobe
K17-448	755	0.37	MAG	MPPprobe
K17-448	755.5	0.76	MAG	MPPprobe
K17-448	756	0.14	MAG	MPPprobe
K17-448	756.5	0.58	MAG	MPPprobe
K17-448	757	0.41	MAG	MPPprobe
K17-448	757.5	0.5	MAG	MPPprobe
K17-448	758	0.74	MAG	MPPprobe
K17-448	758.5	0.56	MAG	MPPprobe
K17-448	759	0.56	MAG	MPPprobe
K17-448	759.5	1.07	MAG	MPPprobe
K17-448	760	0.48	MAG	MPPprobe
K17-448	760.5	0.41	MAG	MPPprobe
K17-448	761	0.39	MAG	MPPprobe
K17-448	761.5	0.23	MAG	MPPprobe
K17-448	762	0.85	MAG	MPPprobe
K17-448	762.5	0.64	MAG	MPPprobe
K17-448	763	0.56	MAG	MPPprobe
K17-448	763.5	0.95	MAG	MPPprobe
K17-448	764	2.52	MAG	MPPprobe
K17-448	764.5	0.62	MAG	MPPprobe
K17-448	765	0.93	MAG	MPPprobe
K17-448	765.5	0.64	MAG	MPPprobe
K17-448	766	0.7	MAG	MPPprobe
K17-448	766.5	3.49	MAG	MPPprobe
K17-448	767	0.37	MAG	MPPprobe
K17-448	767.5	7.62	MAG	MPPprobe
K17-448	768	10.2	MAG	MPPprobe
K17-448	768.5	12.9	MAG	MPPprobe
K17-448	769	6.73	MAG	MPPprobe
K17-448	769.5	3.33	MAG	MPPprobe
K17-448	770	78.3	MAG	MPPprobe
K17-448	770.5	20.2	MAG	MPPprobe
K17-448	771	10.9	MAG	MPPprobe
K17-448	771.5	2.23	MAG	MPPprobe
K17-448	772	1.8	MAG	MPPprobe
K17-448	772.5	6.11	MAG	MPPprobe
K17-448	773	2.11	MAG	MPPprobe
K17-448	773.5	1.65	MAG	MPPprobe
K17-448	774	2.17	MAG	MPPprobe
K17-448	774.5	12.6	MAG	MPPprobe
K17-448	775	0.48	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	775.5	0.72	MAG	MPPprobe
K17-448	776	0.72	MAG	MPPprobe
K17-448	776.5	0.7	MAG	MPPprobe
K17-448	777	0.7	MAG	MPPprobe
K17-448	777.5	0.62	MAG	MPPprobe
K17-448	778	0.99	MAG	MPPprobe
K17-448	778.5	4.28	MAG	MPPprobe
K17-448	779	0.99	MAG	MPPprobe
K17-448	779.5	0.72	MAG	MPPprobe
K17-448	780	0.56	MAG	MPPprobe
K17-448	780.5	0.95	MAG	MPPprobe
K17-448	781	1.34	MAG	MPPprobe
K17-448	781.5	0.5	MAG	MPPprobe
K17-448	782	2.75	MAG	MPPprobe
K17-448	782.5	0.04	MAG	MPPprobe
K17-448	783	0	MAG	MPPprobe
K17-448	783.5	0.58	MAG	MPPprobe
K17-448	784	0.76	MAG	MPPprobe
K17-448	784.5	0.62	MAG	MPPprobe
K17-448	785	1.14	MAG	MPPprobe
K17-448	785.5	0.17	MAG	MPPprobe
K17-448	786	0.35	MAG	MPPprobe
K17-448	786.5	0.89	MAG	MPPprobe
K17-448	787	0.19	MAG	MPPprobe
K17-448	787.5	0	MAG	MPPprobe
K17-448	788	0.66	MAG	MPPprobe
K17-448	788.5	0.76	MAG	MPPprobe
K17-448	789	0	MAG	MPPprobe
K17-448	789.5	0.52	MAG	MPPprobe
K17-448	790	0.48	MAG	MPPprobe
K17-448	790.5	0.33	MAG	MPPprobe
K17-448	791	0.6	MAG	MPPprobe
K17-448	791.5	2.91	MAG	MPPprobe
K17-448	792	1.8	MAG	MPPprobe
K17-448	792.5	4.94	MAG	MPPprobe
K17-448	793	5.66	MAG	MPPprobe
K17-448	793.5	0.54	MAG	MPPprobe
K17-448	794	1.43	MAG	MPPprobe
K17-448	794.5	0.25	MAG	MPPprobe
K17-448	795	0	MAG	MPPprobe
K17-448	795.5	0.66	MAG	MPPprobe
K17-448	796	0.43	MAG	MPPprobe
K17-448	796.5	0.45	MAG	MPPprobe
K17-448	797	0.83	MAG	MPPprobe
K17-448	797.5	0.56	MAG	MPPprobe
K17-448	798	3.64	MAG	MPPprobe
K17-448	798.5	1.03	MAG	MPPprobe
K17-448	799	0.06	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	799.5	0.37	MAG	MPPprobe
K17-448	800	0.31	MAG	MPPprobe
K17-448	800.5	0.62	MAG	MPPprobe
K17-448	801	2.83	MAG	MPPprobe
K17-448	801.5	1.57	MAG	MPPprobe
K17-448	802	1.51	MAG	MPPprobe
K17-448	802.5	0.35	MAG	MPPprobe
K17-448	803	0.19	MAG	MPPprobe
K17-448	803.5	1.2	MAG	MPPprobe
K17-448	804	3.08	MAG	MPPprobe
K17-448	804.5	2.35	MAG	MPPprobe
K17-448	805	0.19	MAG	MPPprobe
K17-448	805.5	0.64	MAG	MPPprobe
K17-448	806	1.07	MAG	MPPprobe
K17-448	806.5	0.7	MAG	MPPprobe
K17-448	807	2.19	MAG	MPPprobe
K17-448	807.5	0.81	MAG	MPPprobe
K17-448	808	0.06	MAG	MPPprobe
K17-448	808.5	0.89	MAG	MPPprobe
K17-448	809	0.04	MAG	MPPprobe
K17-448	809.5	4.15	MAG	MPPprobe
K17-448	810	3.12	MAG	MPPprobe
K17-448	810.5	6.98	MAG	MPPprobe
K17-448	811	0.52	MAG	MPPprobe
K17-448	811.5	1.69	MAG	MPPprobe
K17-448	812	2.81	MAG	MPPprobe
K17-448	812.5	4.88	MAG	MPPprobe
K17-448	813	1.88	MAG	MPPprobe
K17-448	813.5	5.97	MAG	MPPprobe
K17-448	814	0.17	MAG	MPPprobe
K17-448	814.5	0.81	MAG	MPPprobe
K17-448	815	0.72	MAG	MPPprobe
K17-448	815.5	2.19	MAG	MPPprobe
K17-448	816	0.29	MAG	MPPprobe
K17-448	816.5	0.19	MAG	MPPprobe
K17-448	817	0.66	MAG	MPPprobe
K17-448	817.5	0.76	MAG	MPPprobe
K17-448	818	0.56	MAG	MPPprobe
K17-448	818.5	2.21	MAG	MPPprobe
K17-448	819	0.37	MAG	MPPprobe
K17-448	819.5	0.6	MAG	MPPprobe
K17-448	820	0.74	MAG	MPPprobe
K17-448	820.5	0.48	MAG	MPPprobe
K17-448	821	0.62	MAG	MPPprobe
K17-448	821.5	0.72	MAG	MPPprobe
K17-448	822	0.52	MAG	MPPprobe
K17-448	822.5	0.52	MAG	MPPprobe
K17-448	823	1.51	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	823.5	0.62	MAG	MPPprobe
K17-448	824	0.83	MAG	MPPprobe
K17-448	824.5	0.39	MAG	MPPprobe
K17-448	825	0.93	MAG	MPPprobe
K17-448	825.5	0.89	MAG	MPPprobe
K17-448	826	0.72	MAG	MPPprobe
K17-448	826.5	0.76	MAG	MPPprobe
K17-448	827	0.14	MAG	MPPprobe
K17-448	827.5	2.48	MAG	MPPprobe
K17-448	828	0.93	MAG	MPPprobe
K17-448	828.5	0.62	MAG	MPPprobe
K17-448	829	1.38	MAG	MPPprobe
K17-448	829.5	1.69	MAG	MPPprobe
K17-448	830	1.2	MAG	MPPprobe
K17-448	830.5	1.74	MAG	MPPprobe
K17-448	831	2.07	MAG	MPPprobe
K17-448	831.5	0.97	MAG	MPPprobe
K17-448	832	0.95	MAG	MPPprobe
K17-448	832.5	1.05	MAG	MPPprobe
K17-448	833	0.83	MAG	MPPprobe
K17-448	833.5	0.48	MAG	MPPprobe
K17-448	834	0.41	MAG	MPPprobe
K17-448	834.5	0.66	MAG	MPPprobe
K17-448	835	0.58	MAG	MPPprobe
K17-448	835.5	0	MAG	MPPprobe
K17-448	836	0.04	MAG	MPPprobe
K17-448	836.5	0.37	MAG	MPPprobe
K17-448	837	0	MAG	MPPprobe
K17-448	837.5	1.01	MAG	MPPprobe
K17-448	838	0.31	MAG	MPPprobe
K17-448	838.5	0.31	MAG	MPPprobe
K17-448	839	0.33	MAG	MPPprobe
K17-448	839.5	0.41	MAG	MPPprobe
K17-448	840	0.17	MAG	MPPprobe
K17-448	840.5	0.6	MAG	MPPprobe
K17-448	841	0.89	MAG	MPPprobe
K17-448	841.5	0.56	MAG	MPPprobe
K17-448	842	0.39	MAG	MPPprobe
K17-448	842.5	3.86	MAG	MPPprobe
K17-448	843	0.56	MAG	MPPprobe
K17-448	843.5	0.5	MAG	MPPprobe
K17-448	844	0.62	MAG	MPPprobe
K17-448	844.5	0.58	MAG	MPPprobe
K17-448	845	0.43	MAG	MPPprobe
K17-448	845.5	0.35	MAG	MPPprobe
K17-448	846	0.5	MAG	MPPprobe
K17-448	846.5	0.64	MAG	MPPprobe
K17-448	847	0.41	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	847.5	0.54	MAG	MPPprobe
K17-448	848	0.66	MAG	MPPprobe
K17-448	848.5	0.41	MAG	MPPprobe
K17-448	849	1.07	MAG	MPPprobe
K17-448	849.5	2.13	MAG	MPPprobe
K17-448	850	1.82	MAG	MPPprobe
K17-448	850.5	2.23	MAG	MPPprobe
K17-448	851	3.78	MAG	MPPprobe
K17-448	851.5	1.36	MAG	MPPprobe
K17-448	852	1.57	MAG	MPPprobe
K17-448	852.5	2.58	MAG	MPPprobe
K17-448	853	1.03	MAG	MPPprobe
K17-448	853.5	1.65	MAG	MPPprobe
K17-448	854	1.16	MAG	MPPprobe
K17-448	854.5	1.84	MAG	MPPprobe
K17-448	855	0.02	MAG	MPPprobe
K17-448	855.5	0.33	MAG	MPPprobe
K17-448	856	1.38	MAG	MPPprobe
K17-448	856.5	1.2	MAG	MPPprobe
K17-448	857	0.39	MAG	MPPprobe
K17-448	857.5	0.06	MAG	MPPprobe
K17-448	858	3.08	MAG	MPPprobe
K17-448	858.5	0.76	MAG	MPPprobe
K17-448	859	3.49	MAG	MPPprobe
K17-448	859.5	7.58	MAG	MPPprobe
K17-448	860	1.63	MAG	MPPprobe
K17-448	860.5	2.42	MAG	MPPprobe
K17-448	861	1.45	MAG	MPPprobe
K17-448	861.5	0	MAG	MPPprobe
K17-448	862	0.54	MAG	MPPprobe
K17-448	862.5	0.99	MAG	MPPprobe
K17-448	863	7.48	MAG	MPPprobe
K17-448	863.5	3.64	MAG	MPPprobe
K17-448	864	2.93	MAG	MPPprobe
K17-448	864.5	0.23	MAG	MPPprobe
K17-448	865	0.02	MAG	MPPprobe
K17-448	865.5	0.04	MAG	MPPprobe
K17-448	866	0.08	MAG	MPPprobe
K17-448	866.5	0.21	MAG	MPPprobe
K17-448	867	0	MAG	MPPprobe
K17-448	867.5	1.32	MAG	MPPprobe
K17-448	868	0.17	MAG	MPPprobe
K17-448	868.5	0.35	MAG	MPPprobe
K17-448	869	0.45	MAG	MPPprobe
K17-448	869.5	0.41	MAG	MPPprobe
K17-448	870	0.5	MAG	MPPprobe
K17-448	870.5	0.56	MAG	MPPprobe
K17-448	871	1.49	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	871.5	1.05	MAG	MPPprobe
K17-448	872	0.48	MAG	MPPprobe
K17-448	872.5	0.23	MAG	MPPprobe
K17-448	873	0.25	MAG	MPPprobe
K17-448	873.5	2.89	MAG	MPPprobe
K17-448	874	0	MAG	MPPprobe
K17-448	874.5	0.31	MAG	MPPprobe
K17-448	875	0.19	MAG	MPPprobe
K17-448	875.5	0.17	MAG	MPPprobe
K17-448	876	0	MAG	MPPprobe
K17-448	876.5	0	MAG	MPPprobe
K17-448	877	0.37	MAG	MPPprobe
K17-448	877.5	0.02	MAG	MPPprobe
K17-448	878	0.72	MAG	MPPprobe
K17-448	878.5	7.85	MAG	MPPprobe
K17-448	879	0.81	MAG	MPPprobe
K17-448	879.5	0.78	MAG	MPPprobe
K17-448	880	0.87	MAG	MPPprobe
K17-448	880.5	0.7	MAG	MPPprobe
K17-448	881	0.85	MAG	MPPprobe
K17-448	881.5	0.56	MAG	MPPprobe
K17-448	882	0.68	MAG	MPPprobe
K17-448	882.5	0.7	MAG	MPPprobe
K17-448	883	0.56	MAG	MPPprobe
K17-448	883.5	0.64	MAG	MPPprobe
K17-448	884	1.12	MAG	MPPprobe
K17-448	884.5	0.83	MAG	MPPprobe
K17-448	885	0.76	MAG	MPPprobe
K17-448	885.5	4.77	MAG	MPPprobe
K17-448	886	0.29	MAG	MPPprobe
K17-448	886.5	1.16	MAG	MPPprobe
K17-448	887	0	MAG	MPPprobe
K17-448	887.5	0	MAG	MPPprobe
K17-448	888	1.61	MAG	MPPprobe
K17-448	888.5	0.81	MAG	MPPprobe
K17-448	889	0.6	MAG	MPPprobe
K17-448	889.5	3.18	MAG	MPPprobe
K17-448	890	0.89	MAG	MPPprobe
K17-448	890.5	0.83	MAG	MPPprobe
K17-448	891	1.59	MAG	MPPprobe
K17-448	891.5	0.78	MAG	MPPprobe
K17-448	892	0.12	MAG	MPPprobe
K17-448	892.5	0	MAG	MPPprobe
K17-448	893	0	MAG	MPPprobe
K17-448	893.5	0.14	MAG	MPPprobe
K17-448	894	0.23	MAG	MPPprobe
K17-448	894.5	0.33	MAG	MPPprobe
K17-448	895	0.35	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	895.5	0.29	MAG	MPPprobe
K17-448	896	1.69	MAG	MPPprobe
K17-448	896.5	1.49	MAG	MPPprobe
K17-448	897	10.4	MAG	MPPprobe
K17-448	897.5	2.15	MAG	MPPprobe
K17-448	898	0.52	MAG	MPPprobe
K17-448	898.5	0.45	MAG	MPPprobe
K17-448	899	7.93	MAG	MPPprobe
K17-448	899.5	5.08	MAG	MPPprobe
K17-448	900	12.7	MAG	MPPprobe
K17-448	900.5	0.1	MAG	MPPprobe
K17-448	901	0.64	MAG	MPPprobe
K17-448	901.5	0.99	MAG	MPPprobe
K17-448	902	0.48	MAG	MPPprobe
K17-448	902.5	1.74	MAG	MPPprobe
K17-448	903	1.53	MAG	MPPprobe
K17-448	903.5	0.91	MAG	MPPprobe
K17-448	904	0.08	MAG	MPPprobe
K17-448	904.5	0	MAG	MPPprobe
K17-448	905	0.21	MAG	MPPprobe
K17-448	905.5	0.23	MAG	MPPprobe
K17-448	906	0.33	MAG	MPPprobe
K17-448	906.5	0	MAG	MPPprobe
K17-448	907	0.17	MAG	MPPprobe
K17-448	907.5	0.06	MAG	MPPprobe
K17-448	908	0.23	MAG	MPPprobe
K17-448	908.5	0	MAG	MPPprobe
K17-448	909	0.56	MAG	MPPprobe
K17-448	909.5	0.14	MAG	MPPprobe
K17-448	910	0.45	MAG	MPPprobe
K17-448	910.5	0.04	MAG	MPPprobe
K17-448	911	0	MAG	MPPprobe
K17-448	911.5	0.17	MAG	MPPprobe
K17-448	912	0	MAG	MPPprobe
K17-448	912.5	0	MAG	MPPprobe
K17-448	913	0.21	MAG	MPPprobe
K17-448	913.5	0.12	MAG	MPPprobe
K17-448	914	0.31	MAG	MPPprobe
K17-448	914.5	0.02	MAG	MPPprobe
K17-448	915	0.37	MAG	MPPprobe
K17-448	915.5	0.17	MAG	MPPprobe
K17-448	916	0.1	MAG	MPPprobe
K17-448	916.5	0.1	MAG	MPPprobe
K17-448	917	0.19	MAG	MPPprobe
K17-448	917.5	0.19	MAG	MPPprobe
K17-448	918	0.21	MAG	MPPprobe
K17-448	918.5	0.99	MAG	MPPprobe
K17-448	919	0.64	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	919.5	0.66	MAG	MPPprobe
K17-448	920	0.52	MAG	MPPprobe
K17-448	920.5	0.56	MAG	MPPprobe
K17-448	921	0	MAG	MPPprobe
K17-448	921.5	0	MAG	MPPprobe
K17-448	922	0.14	MAG	MPPprobe
K17-448	922.5	0.35	MAG	MPPprobe
K17-448	923	0.21	MAG	MPPprobe
K17-448	923.5	0	MAG	MPPprobe
K17-448	924	0.17	MAG	MPPprobe
K17-448	924.5	0.06	MAG	MPPprobe
K17-448	925	0	MAG	MPPprobe
K17-448	925.5	0.39	MAG	MPPprobe
K17-448	926	0.25	MAG	MPPprobe
K17-448	926.5	0	MAG	MPPprobe
K17-448	927	0.31	MAG	MPPprobe
K17-448	927.5	0.41	MAG	MPPprobe
K17-448	928	0.27	MAG	MPPprobe
K17-448	928.5	0	MAG	MPPprobe
K17-448	929	0.64	MAG	MPPprobe
K17-448	929.5	0.12	MAG	MPPprobe
K17-448	930	0	MAG	MPPprobe
K17-448	930.5	0.37	MAG	MPPprobe
K17-448	931	0.23	MAG	MPPprobe
K17-448	931.5	0.14	MAG	MPPprobe
K17-448	932	0.19	MAG	MPPprobe
K17-448	932.5	1.55	MAG	MPPprobe
K17-448	933	0.33	MAG	MPPprobe
K17-448	933.5	0.37	MAG	MPPprobe
K17-448	934	0.08	MAG	MPPprobe
K17-448	934.5	0.25	MAG	MPPprobe
K17-448	935	0	MAG	MPPprobe
K17-448	935.5	0	MAG	MPPprobe
K17-448	936	0.06	MAG	MPPprobe
K17-448	936.5	0.45	MAG	MPPprobe
K17-448	937	0	MAG	MPPprobe
K17-448	937.5	0	MAG	MPPprobe
K17-448	938	0	MAG	MPPprobe
K17-448	938.5	0.29	MAG	MPPprobe
K17-448	939	0.08	MAG	MPPprobe
K17-448	939.5	0.56	MAG	MPPprobe
K17-448	940	0.78	MAG	MPPprobe
K17-448	940.5	0.68	MAG	MPPprobe
K17-448	941	0.41	MAG	MPPprobe
K17-448	941.5	1.94	MAG	MPPprobe
K17-448	942	0.25	MAG	MPPprobe
K17-448	942.5	0.37	MAG	MPPprobe
K17-448	943	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	943.5	0.84	MAG	MPPprobe
K17-448	944	0.41	MAG	MPPprobe
K17-448	944.5	0.41	MAG	MPPprobe
K17-448	945	0.21	MAG	MPPprobe
K17-448	945.5	0	MAG	MPPprobe
K17-448	946	0	MAG	MPPprobe
K17-448	946.5	1.32	MAG	MPPprobe
K17-448	947	1.36	MAG	MPPprobe
K17-448	947.5	0.19	MAG	MPPprobe
K17-448	948	0	MAG	MPPprobe
K17-448	948.5	0.39	MAG	MPPprobe
K17-448	949	1.11	MAG	MPPprobe
K17-448	949.5	0.68	MAG	MPPprobe
K17-448	950	0.56	MAG	MPPprobe
K17-448	950.5	0.06	MAG	MPPprobe
K17-448	951	0	MAG	MPPprobe
K17-448	951.5	0	MAG	MPPprobe
K17-448	952	0	MAG	MPPprobe
K17-448	952.5	0	MAG	MPPprobe
K17-448	953	1.42	MAG	MPPprobe
K17-448	953.5	4.75	MAG	MPPprobe
K17-448	954	1.4	MAG	MPPprobe
K17-448	954.5	2.62	MAG	MPPprobe
K17-448	955	2.56	MAG	MPPprobe
K17-448	955.5	2.37	MAG	MPPprobe
K17-448	956	0.5	MAG	MPPprobe
K17-448	956.5	0.5	MAG	MPPprobe
K17-448	957	3.51	MAG	MPPprobe
K17-448	957.5	5.08	MAG	MPPprobe
K17-448	958	2.15	MAG	MPPprobe
K17-448	958.5	0.1	MAG	MPPprobe
K17-448	959	0.19	MAG	MPPprobe
K17-448	959.5	0.56	MAG	MPPprobe
K17-448	960	0.23	MAG	MPPprobe
K17-448	960.5	0.25	MAG	MPPprobe
K17-448	961	0.87	MAG	MPPprobe
K17-448	961.5	0.21	MAG	MPPprobe
K17-448	962	0.19	MAG	MPPprobe
K17-448	962.5	0.6	MAG	MPPprobe
K17-448	963	0.74	MAG	MPPprobe
K17-448	963.5	0.6	MAG	MPPprobe
K17-448	964	0.08	MAG	MPPprobe
K17-448	964.5	0.43	MAG	MPPprobe
K17-448	965	0.66	MAG	MPPprobe
K17-448	965.5	0.89	MAG	MPPprobe
K17-448	966	0.8	MAG	MPPprobe
K17-448	966.5	0.25	MAG	MPPprobe
K17-448	967	0.14	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	967.5	0.25	MAG	MPPprobe
K17-448	968	1.09	MAG	MPPprobe
K17-448	968.5	1.77	MAG	MPPprobe
K17-448	969	1.59	MAG	MPPprobe
K17-448	969.5	1.14	MAG	MPPprobe
K17-448	970	1.63	MAG	MPPprobe
K17-448	970.5	1.36	MAG	MPPprobe
K17-448	971	0.06	MAG	MPPprobe
K17-448	971.5	0.56	MAG	MPPprobe
K17-448	972	0.29	MAG	MPPprobe
K17-448	972.5	0.56	MAG	MPPprobe
K17-448	973	0.58	MAG	MPPprobe
K17-448	973.5	0.7	MAG	MPPprobe
K17-448	974	1.28	MAG	MPPprobe
K17-448	974.5	1.01	MAG	MPPprobe
K17-448	975	1.07	MAG	MPPprobe
K17-448	975.5	0.54	MAG	MPPprobe
K17-448	976	0.43	MAG	MPPprobe
K17-448	976.5	0.6	MAG	MPPprobe
K17-448	977	0.78	MAG	MPPprobe
K17-448	977.5	0.45	MAG	MPPprobe
K17-448	978	0.35	MAG	MPPprobe
K17-448	978.5	0.45	MAG	MPPprobe
K17-448	979	0.95	MAG	MPPprobe
K17-448	979.5	1.32	MAG	MPPprobe
K17-448	980	0.72	MAG	MPPprobe
K17-448	980.5	2.85	MAG	MPPprobe
K17-448	981	0.64	MAG	MPPprobe
K17-448	981.5	0.14	MAG	MPPprobe
K17-448	982	0.47	MAG	MPPprobe
K17-448	982.5	0.19	MAG	MPPprobe
K17-448	983	0.17	MAG	MPPprobe
K17-448	983.5	0.33	MAG	MPPprobe
K17-448	984	0.06	MAG	MPPprobe
K17-448	984.5	0.41	MAG	MPPprobe
K17-448	985	0.25	MAG	MPPprobe
K17-448	985.5	0.56	MAG	MPPprobe
K17-448	986	0.74	MAG	MPPprobe
K17-448	986.5	1.59	MAG	MPPprobe
K17-448	987	10.3	MAG	MPPprobe
K17-448	987.5	0.64	MAG	MPPprobe
K17-448	988	3.63	MAG	MPPprobe
K17-448	988.5	3.63	MAG	MPPprobe
K17-448	989	2.13	MAG	MPPprobe
K17-448	989.5	1.92	MAG	MPPprobe
K17-448	990	1.22	MAG	MPPprobe
K17-448	990.5	3.16	MAG	MPPprobe
K17-448	991	2.15	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	991.5	0.25	MAG	MPPprobe
K17-448	992	1.01	MAG	MPPprobe
K17-448	992.5	3.86	MAG	MPPprobe
K17-448	993	3.9	MAG	MPPprobe
K17-448	993.5	2.21	MAG	MPPprobe
K17-448	994	3.45	MAG	MPPprobe
K17-448	994.5	0.58	MAG	MPPprobe
K17-448	995	2.56	MAG	MPPprobe
K17-448	995.5	1.67	MAG	MPPprobe
K17-448	996	0.04	MAG	MPPprobe
K17-448	996.5	0.1	MAG	MPPprobe
K17-448	997	2.68	MAG	MPPprobe
K17-448	997.5	2.93	MAG	MPPprobe
K17-448	998	11.7	MAG	MPPprobe
K17-448	998.5	4.29	MAG	MPPprobe
K17-448	999	6.32	MAG	MPPprobe
K17-448	999.5	0.97	MAG	MPPprobe
K17-448	1000	0.6	MAG	MPPprobe
K17-448	1000.5	1.38	MAG	MPPprobe
K17-448	1001	2.5	MAG	MPPprobe
K17-448	1001.5	0.66	MAG	MPPprobe
K17-448	1002	0.56	MAG	MPPprobe
K17-448	1002.5	0.33	MAG	MPPprobe
K17-448	1003	0.7	MAG	MPPprobe
K17-448	1003.5	0.74	MAG	MPPprobe
K17-448	1004	0.5	MAG	MPPprobe
K17-448	1004.5	0.56	MAG	MPPprobe
K17-448	1005	0.64	MAG	MPPprobe
K17-448	1005.5	0.83	MAG	MPPprobe
K17-448	1006	0.64	MAG	MPPprobe
K17-448	1006.5	0.87	MAG	MPPprobe
K17-448	1007	0.93	MAG	MPPprobe
K17-448	1007.5	0.74	MAG	MPPprobe
K17-448	1008	2.21	MAG	MPPprobe
K17-448	1008.5	0.85	MAG	MPPprobe
K17-448	1009	0.5	MAG	MPPprobe
K17-448	1009.5	3.22	MAG	MPPprobe
K17-448	1010	0.89	MAG	MPPprobe
K17-448	1010.5	0.5	MAG	MPPprobe
K17-448	1011	0.43	MAG	MPPprobe
K17-448	1011.5	0.6	MAG	MPPprobe
K17-448	1012	0.78	MAG	MPPprobe
K17-448	1012.5	0.64	MAG	MPPprobe
K17-448	1013	0.89	MAG	MPPprobe
K17-448	1013.5	0.7	MAG	MPPprobe
K17-448	1014	0.74	MAG	MPPprobe
K17-448	1014.5	0.7	MAG	MPPprobe
K17-448	1015	0.68	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-448	1015.5	0.56	MAG	MPPprobe
K17-448	1016	0.68	MAG	MPPprobe
K17-448	1016.5	0.56	MAG	MPPprobe
K17-448	1017	0.72	MAG	MPPprobe
K17-449	8	1.2	MAG	MPPprobe
K17-449	8.5	5.74	MAG	MPPprobe
K17-449	9	2.81	MAG	MPPprobe
K17-449	9.5	3.12	MAG	MPPprobe
K17-449	10	1.14	MAG	MPPprobe
K17-449	10.5	1.88	MAG	MPPprobe
K17-449	11	0.47	MAG	MPPprobe
K17-449	11.5	0	MAG	MPPprobe
K17-449	12	0.19	MAG	MPPprobe
K17-449	12.5	0.04	MAG	MPPprobe
K17-449	13	0.14	MAG	MPPprobe
K17-449	13.5	0.23	MAG	MPPprobe
K17-449	14	0.35	MAG	MPPprobe
K17-449	14.5	0.5	MAG	MPPprobe
K17-449	15	0.64	MAG	MPPprobe
K17-449	15.5	0.64	MAG	MPPprobe
K17-449	16	0.43	MAG	MPPprobe
K17-449	16.5	0.76	MAG	MPPprobe
K17-449	17	0.81	MAG	MPPprobe
K17-449	17.5	0.02	MAG	MPPprobe
K17-449	18	0.29	MAG	MPPprobe
K17-449	18.5	0.04	MAG	MPPprobe
K17-449	19	0.14	MAG	MPPprobe
K17-449	19.5	0	MAG	MPPprobe
K17-449	20	0.06	MAG	MPPprobe
K17-449	20.5	0.25	MAG	MPPprobe
K17-449	21	0.08	MAG	MPPprobe
K17-449	21.5	0.62	MAG	MPPprobe
K17-449	22	0.41	MAG	MPPprobe
K17-449	22.5	0.19	MAG	MPPprobe
K17-449	23	0.39	MAG	MPPprobe
K17-449	23.5	0.78	MAG	MPPprobe
K17-449	24	0.29	MAG	MPPprobe
K17-449	24.5	0	MAG	MPPprobe
K17-449	25	0.25	MAG	MPPprobe
K17-449	25.5	0	MAG	MPPprobe
K17-449	26	0.41	MAG	MPPprobe
K17-449	26.5	0	MAG	MPPprobe
K17-449	27	0.62	MAG	MPPprobe
K17-449	27.5	0	MAG	MPPprobe
K17-449	28	0.02	MAG	MPPprobe
K17-449	28.5	0.06	MAG	MPPprobe
K17-449	29	0.41	MAG	MPPprobe
K17-449	29.5	0.04	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	30	0	MAG	MPPprobe
K17-449	30.5	0	MAG	MPPprobe
K17-449	31	0	MAG	MPPprobe
K17-449	31.5	0	MAG	MPPprobe
K17-449	32	0.04	MAG	MPPprobe
K17-449	32.5	0	MAG	MPPprobe
K17-449	33	0	MAG	MPPprobe
K17-449	33.5	1.2	MAG	MPPprobe
K17-449	34	1.07	MAG	MPPprobe
K17-449	34.5	0.54	MAG	MPPprobe
K17-449	35	0.08	MAG	MPPprobe
K17-449	35.5	3.45	MAG	MPPprobe
K17-449	36	0.06	MAG	MPPprobe
K17-449	36.5	0.25	MAG	MPPprobe
K17-449	37	1.92	MAG	MPPprobe
K17-449	37.5	0.25	MAG	MPPprobe
K17-449	38	3.71	MAG	MPPprobe
K17-449	38.5	1.13	MAG	MPPprobe
K17-449	39	0.7	MAG	MPPprobe
K17-449	39.5	0.06	MAG	MPPprobe
K17-449	40	0.21	MAG	MPPprobe
K17-449	40.5	5.61	MAG	MPPprobe
K17-449	41	0.83	MAG	MPPprobe
K17-449	41.5	4.31	MAG	MPPprobe
K17-449	42	0.64	MAG	MPPprobe
K17-449	42.5	6.46	MAG	MPPprobe
K17-449	43	0.7	MAG	MPPprobe
K17-449	43.5	2.81	MAG	MPPprobe
K17-449	44	0.1	MAG	MPPprobe
K17-449	44.5	1.55	MAG	MPPprobe
K17-449	45	2.76	MAG	MPPprobe
K17-449	45.5	2.74	MAG	MPPprobe
K17-449	46	3.2	MAG	MPPprobe
K17-449	46.5	3.73	MAG	MPPprobe
K17-449	47	2.25	MAG	MPPprobe
K17-449	47.5	2.19	MAG	MPPprobe
K17-449	48	2.76	MAG	MPPprobe
K17-449	48.5	1.2	MAG	MPPprobe
K17-449	49	1.4	MAG	MPPprobe
K17-449	49.5	1.59	MAG	MPPprobe
K17-449	50	2.6	MAG	MPPprobe
K17-449	50.5	1.4	MAG	MPPprobe
K17-449	51	1.71	MAG	MPPprobe
K17-449	51.5	2.62	MAG	MPPprobe
K17-449	52	0.91	MAG	MPPprobe
K17-449	52.5	4.95	MAG	MPPprobe
K17-449	53	1.86	MAG	MPPprobe
K17-449	53.5	3.16	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	54	1.09	MAG	MPPprobe
K17-449	54.5	7.98	MAG	MPPprobe
K17-449	55	3.24	MAG	MPPprobe
K17-449	55.5	2.06	MAG	MPPprobe
K17-449	56	6.23	MAG	MPPprobe
K17-449	56.5	2.72	MAG	MPPprobe
K17-449	57	2.02	MAG	MPPprobe
K17-449	57.5	0.85	MAG	MPPprobe
K17-449	58	0.54	MAG	MPPprobe
K17-449	58.5	2.6	MAG	MPPprobe
K17-449	59	2.19	MAG	MPPprobe
K17-449	59.5	3.3	MAG	MPPprobe
K17-449	60	3.44	MAG	MPPprobe
K17-449	60.5	10.1	MAG	MPPprobe
K17-449	61	6.99	MAG	MPPprobe
K17-449	61.5	2.12	MAG	MPPprobe
K17-449	62	1.86	MAG	MPPprobe
K17-449	62.5	1.61	MAG	MPPprobe
K17-449	63	2.45	MAG	MPPprobe
K17-449	63.5	2.48	MAG	MPPprobe
K17-449	64	2.58	MAG	MPPprobe
K17-449	64.5	0.41	MAG	MPPprobe
K17-449	65	1.63	MAG	MPPprobe
K17-449	65.5	1.16	MAG	MPPprobe
K17-449	66	1.53	MAG	MPPprobe
K17-449	66.5	0.37	MAG	MPPprobe
K17-449	67	14.1	MAG	MPPprobe
K17-449	67.5	9.43	MAG	MPPprobe
K17-449	68	21.1	MAG	MPPprobe
K17-449	68.5	2.93	MAG	MPPprobe
K17-449	69	1.57	MAG	MPPprobe
K17-449	69.5	0.72	MAG	MPPprobe
K17-449	70	0.95	MAG	MPPprobe
K17-449	70.5	0.47	MAG	MPPprobe
K17-449	71	0.33	MAG	MPPprobe
K17-449	71.5	0.19	MAG	MPPprobe
K17-449	72	0.12	MAG	MPPprobe
K17-449	72.5	0.23	MAG	MPPprobe
K17-449	73	0.12	MAG	MPPprobe
K17-449	73.5	0.64	MAG	MPPprobe
K17-449	74	0.31	MAG	MPPprobe
K17-449	74.5	0.31	MAG	MPPprobe
K17-449	75	0.7	MAG	MPPprobe
K17-449	75.5	0.39	MAG	MPPprobe
K17-449	76	0.1	MAG	MPPprobe
K17-449	76.5	1.13	MAG	MPPprobe
K17-449	77	0.83	MAG	MPPprobe
K17-449	77.5	2.48	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	78	0	MAG	MPPprobe
K17-449	78.5	0	MAG	MPPprobe
K17-449	79	2.25	MAG	MPPprobe
K17-449	79.5	2.41	MAG	MPPprobe
K17-449	80	0.87	MAG	MPPprobe
K17-449	80.5	0	MAG	MPPprobe
K17-449	81	0	MAG	MPPprobe
K17-449	81.5	0	MAG	MPPprobe
K17-449	82	1.28	MAG	MPPprobe
K17-449	82.5	0	MAG	MPPprobe
K17-449	83	0	MAG	MPPprobe
K17-449	83.5	1.28	MAG	MPPprobe
K17-449	84	6.76	MAG	MPPprobe
K17-449	84.5	2.85	MAG	MPPprobe
K17-449	85	2.1	MAG	MPPprobe
K17-449	85.5	3.38	MAG	MPPprobe
K17-449	86	2.47	MAG	MPPprobe
K17-449	86.5	0.14	MAG	MPPprobe
K17-449	87	1.67	MAG	MPPprobe
K17-449	87.5	0.74	MAG	MPPprobe
K17-449	88	3.09	MAG	MPPprobe
K17-449	88.5	4.97	MAG	MPPprobe
K17-449	89	2.19	MAG	MPPprobe
K17-449	89.5	1.07	MAG	MPPprobe
K17-449	90	2.06	MAG	MPPprobe
K17-449	90.5	1.92	MAG	MPPprobe
K17-449	91	0	MAG	MPPprobe
K17-449	91.5	1.2	MAG	MPPprobe
K17-449	92	0.21	MAG	MPPprobe
K17-449	92.5	0.93	MAG	MPPprobe
K17-449	93	0.35	MAG	MPPprobe
K17-449	93.5	1.07	MAG	MPPprobe
K17-449	94	2.29	MAG	MPPprobe
K17-449	94.5	8.21	MAG	MPPprobe
K17-449	95	1.86	MAG	MPPprobe
K17-449	95.5	12.5	MAG	MPPprobe
K17-449	96	1.13	MAG	MPPprobe
K17-449	96.5	1.2	MAG	MPPprobe
K17-449	97	0.25	MAG	MPPprobe
K17-449	97.5	2.41	MAG	MPPprobe
K17-449	98	1.67	MAG	MPPprobe
K17-449	98.5	1.75	MAG	MPPprobe
K17-449	99	2.33	MAG	MPPprobe
K17-449	99.5	0.85	MAG	MPPprobe
K17-449	100	0	MAG	MPPprobe
K17-449	100.5	1.48	MAG	MPPprobe
K17-449	101	3.9	MAG	MPPprobe
K17-449	101.5	1.26	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	102	1.77	MAG	MPPprobe
K17-449	102.5	49.3	MAG	MPPprobe
K17-449	103	2.43	MAG	MPPprobe
K17-449	103.5	2.45	MAG	MPPprobe
K17-449	104	2.91	MAG	MPPprobe
K17-449	104.5	1.65	MAG	MPPprobe
K17-449	105	2.47	MAG	MPPprobe
K17-449	105.5	4.7	MAG	MPPprobe
K17-449	106	2.99	MAG	MPPprobe
K17-449	106.5	3.22	MAG	MPPprobe
K17-449	107	0.95	MAG	MPPprobe
K17-449	107.5	3.09	MAG	MPPprobe
K17-449	108	1.32	MAG	MPPprobe
K17-449	108.5	0.78	MAG	MPPprobe
K17-449	109	1.65	MAG	MPPprobe
K17-449	109.5	5.24	MAG	MPPprobe
K17-449	110	24.5	MAG	MPPprobe
K17-449	110.5	3.57	MAG	MPPprobe
K17-449	111	2.91	MAG	MPPprobe
K17-449	111.5	2.56	MAG	MPPprobe
K17-449	112	8.17	MAG	MPPprobe
K17-449	112.5	2.35	MAG	MPPprobe
K17-449	113	1.44	MAG	MPPprobe
K17-449	113.5	0.99	MAG	MPPprobe
K17-449	114	2.35	MAG	MPPprobe
K17-449	114.5	3.53	MAG	MPPprobe
K17-449	115	0.08	MAG	MPPprobe
K17-449	115.5	0.45	MAG	MPPprobe
K17-449	116	0	MAG	MPPprobe
K17-449	116.5	0.02	MAG	MPPprobe
K17-449	117	0	MAG	MPPprobe
K17-449	117.5	0.23	MAG	MPPprobe
K17-449	118	0.12	MAG	MPPprobe
K17-449	118.5	0.68	MAG	MPPprobe
K17-449	119	0.14	MAG	MPPprobe
K17-449	119.5	0.41	MAG	MPPprobe
K17-449	120	0	MAG	MPPprobe
K17-449	120.5	0.16	MAG	MPPprobe
K17-449	121	0.25	MAG	MPPprobe
K17-449	121.5	0.21	MAG	MPPprobe
K17-449	122	1.01	MAG	MPPprobe
K17-449	122.5	0.78	MAG	MPPprobe
K17-449	123	0.87	MAG	MPPprobe
K17-449	123.5	0.97	MAG	MPPprobe
K17-449	124	1.98	MAG	MPPprobe
K17-449	124.5	1.75	MAG	MPPprobe
K17-449	125	2.99	MAG	MPPprobe
K17-449	125.5	1.59	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	126	2.99	MAG	MPPprobe
K17-449	126.5	1.98	MAG	MPPprobe
K17-449	127	1.88	MAG	MPPprobe
K17-449	127.5	16.9	MAG	MPPprobe
K17-449	128	16	MAG	MPPprobe
K17-449	128.5	6.93	MAG	MPPprobe
K17-449	129	4.93	MAG	MPPprobe
K17-449	129.5	3.05	MAG	MPPprobe
K17-449	130	5.48	MAG	MPPprobe
K17-449	130.5	1.55	MAG	MPPprobe
K17-449	131	2.41	MAG	MPPprobe
K17-449	131.5	1.45	MAG	MPPprobe
K17-449	132	3.53	MAG	MPPprobe
K17-449	132.5	0.95	MAG	MPPprobe
K17-449	133	2.33	MAG	MPPprobe
K17-449	133.5	1.36	MAG	MPPprobe
K17-449	134	3.1	MAG	MPPprobe
K17-449	134.5	8.51	MAG	MPPprobe
K17-449	135	1.51	MAG	MPPprobe
K17-449	135.5	1.42	MAG	MPPprobe
K17-449	136	3.01	MAG	MPPprobe
K17-449	136.5	1.59	MAG	MPPprobe
K17-449	137	2.85	MAG	MPPprobe
K17-449	137.5	1.84	MAG	MPPprobe
K17-449	138	0	MAG	MPPprobe
K17-449	138.5	0	MAG	MPPprobe
K17-449	139	4.81	MAG	MPPprobe
K17-449	139.5	3.7	MAG	MPPprobe
K17-449	140	8.05	MAG	MPPprobe
K17-449	140.5	7.74	MAG	MPPprobe
K17-449	141	5.06	MAG	MPPprobe
K17-449	141.5	1.26	MAG	MPPprobe
K17-449	142	2.97	MAG	MPPprobe
K17-449	142.5	2.64	MAG	MPPprobe
K17-449	143	10.4	MAG	MPPprobe
K17-449	143.5	5.82	MAG	MPPprobe
K17-449	144	1.3	MAG	MPPprobe
K17-449	144.5	2.25	MAG	MPPprobe
K17-449	145	2.85	MAG	MPPprobe
K17-449	145.5	0.89	MAG	MPPprobe
K17-449	146	1.51	MAG	MPPprobe
K17-449	146.5	0.17	MAG	MPPprobe
K17-449	147	0.17	MAG	MPPprobe
K17-449	147.5	0.47	MAG	MPPprobe
K17-449	148	0	MAG	MPPprobe
K17-449	148.5	0	MAG	MPPprobe
K17-449	149	0.27	MAG	MPPprobe
K17-449	149.5	0.08	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	150	0	MAG	MPPprobe
K17-449	150.5	0.25	MAG	MPPprobe
K17-449	151	0.17	MAG	MPPprobe
K17-449	151.5	0	MAG	MPPprobe
K17-449	152	0.23	MAG	MPPprobe
K17-449	152.5	1.36	MAG	MPPprobe
K17-449	153	0.97	MAG	MPPprobe
K17-449	153.5	0.66	MAG	MPPprobe
K17-449	154	1.42	MAG	MPPprobe
K17-449	154.5	6.96	MAG	MPPprobe
K17-449	155	1.47	MAG	MPPprobe
K17-449	155.5	1.61	MAG	MPPprobe
K17-449	156	0.66	MAG	MPPprobe
K17-449	156.5	0.58	MAG	MPPprobe
K17-449	157	0.08	MAG	MPPprobe
K17-449	157.5	0.25	MAG	MPPprobe
K17-449	158	0.06	MAG	MPPprobe
K17-449	158.5	0.56	MAG	MPPprobe
K17-449	159	0.43	MAG	MPPprobe
K17-449	159.5	3.3	MAG	MPPprobe
K17-449	160	1.82	MAG	MPPprobe
K17-449	160.5	0.74	MAG	MPPprobe
K17-449	161	1.16	MAG	MPPprobe
K17-449	161.5	0.29	MAG	MPPprobe
K17-449	162	0.19	MAG	MPPprobe
K17-449	162.5	1.34	MAG	MPPprobe
K17-449	163	3.28	MAG	MPPprobe
K17-449	163.5	1.36	MAG	MPPprobe
K17-449	164	4.09	MAG	MPPprobe
K17-449	164.5	1.9	MAG	MPPprobe
K17-449	165	4.4	MAG	MPPprobe
K17-449	165.5	1.36	MAG	MPPprobe
K17-449	166	1.71	MAG	MPPprobe
K17-449	166.5	1.01	MAG	MPPprobe
K17-449	167	0.54	MAG	MPPprobe
K17-449	167.5	0.43	MAG	MPPprobe
K17-449	168	0.54	MAG	MPPprobe
K17-449	168.5	2.17	MAG	MPPprobe
K17-449	169	2.48	MAG	MPPprobe
K17-449	169.5	0.62	MAG	MPPprobe
K17-449	170	0.62	MAG	MPPprobe
K17-449	170.5	0.37	MAG	MPPprobe
K17-449	171	3.24	MAG	MPPprobe
K17-449	171.5	3.3	MAG	MPPprobe
K17-449	172	2.56	MAG	MPPprobe
K17-449	172.5	1.71	MAG	MPPprobe
K17-449	173	1.69	MAG	MPPprobe
K17-449	173.5	0.66	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	174	2.56	MAG	MPPprobe
K17-449	174.5	1.42	MAG	MPPprobe
K17-449	175	0.1	MAG	MPPprobe
K17-449	175.5	2.89	MAG	MPPprobe
K17-449	176	7.83	MAG	MPPprobe
K17-449	176.5	7.39	MAG	MPPprobe
K17-449	177	2.85	MAG	MPPprobe
K17-449	177.5	5.02	MAG	MPPprobe
K17-449	178	6.24	MAG	MPPprobe
K17-449	178.5	0.25	MAG	MPPprobe
K17-449	179	4.5	MAG	MPPprobe
K17-449	179.5	0.62	MAG	MPPprobe
K17-449	180	2.66	MAG	MPPprobe
K17-449	180.5	2.15	MAG	MPPprobe
K17-449	181	1.67	MAG	MPPprobe
K17-449	181.5	0.97	MAG	MPPprobe
K17-449	182	3.32	MAG	MPPprobe
K17-449	182.5	0.45	MAG	MPPprobe
K17-449	183	0.41	MAG	MPPprobe
K17-449	183.5	0.25	MAG	MPPprobe
K17-449	184	0.56	MAG	MPPprobe
K17-449	184.5	0.76	MAG	MPPprobe
K17-449	185	1.26	MAG	MPPprobe
K17-449	185.5	0.25	MAG	MPPprobe
K17-449	186	0.5	MAG	MPPprobe
K17-449	186.5	0.54	MAG	MPPprobe
K17-449	187	0.56	MAG	MPPprobe
K17-449	187.5	0.04	MAG	MPPprobe
K17-449	188	0.35	MAG	MPPprobe
K17-449	188.5	0.5	MAG	MPPprobe
K17-449	189	3.82	MAG	MPPprobe
K17-449	189.5	0.83	MAG	MPPprobe
K17-449	190	2.89	MAG	MPPprobe
K17-449	190.5	0.29	MAG	MPPprobe
K17-449	191	0.12	MAG	MPPprobe
K17-449	191.5	0.43	MAG	MPPprobe
K17-449	192	0.91	MAG	MPPprobe
K17-449	192.5	0.95	MAG	MPPprobe
K17-449	193	0.58	MAG	MPPprobe
K17-449	193.5	1.05	MAG	MPPprobe
K17-449	194	2.15	MAG	MPPprobe
K17-449	194.5	3.8	MAG	MPPprobe
K17-449	195	0.76	MAG	MPPprobe
K17-449	195.5	0.64	MAG	MPPprobe
K17-449	196	0.37	MAG	MPPprobe
K17-449	196.5	1.32	MAG	MPPprobe
K17-449	197	1.63	MAG	MPPprobe
K17-449	197.5	1.98	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	198	5.88	MAG	MPPprobe
K17-449	198.5	2.42	MAG	MPPprobe
K17-449	199	7.54	MAG	MPPprobe
K17-449	199.5	1.38	MAG	MPPprobe
K17-449	200	1.78	MAG	MPPprobe
K17-449	200.5	1.45	MAG	MPPprobe
K17-449	201	3.57	MAG	MPPprobe
K17-449	201.5	3.1	MAG	MPPprobe
K17-449	202	3.08	MAG	MPPprobe
K17-449	202.5	1.4	MAG	MPPprobe
K17-449	203	1.18	MAG	MPPprobe
K17-449	203.5	2.09	MAG	MPPprobe
K17-449	204	1.28	MAG	MPPprobe
K17-449	204.5	7.72	MAG	MPPprobe
K17-449	205	1.45	MAG	MPPprobe
K17-449	205.5	2.21	MAG	MPPprobe
K17-449	206	3.41	MAG	MPPprobe
K17-449	206.5	6.59	MAG	MPPprobe
K17-449	207	0	MAG	MPPprobe
K17-449	207.25	1.03	MAG	MPPprobe
K17-449	207.5	4.25	MAG	MPPprobe
K17-449	208	4.81	MAG	MPPprobe
K17-449	208.5	4.21	MAG	MPPprobe
K17-449	209	6.96	MAG	MPPprobe
K17-449	209.5	15.3	MAG	MPPprobe
K17-449	210	4.09	MAG	MPPprobe
K17-449	210.5	6.4	MAG	MPPprobe
K17-449	211	5.51	MAG	MPPprobe
K17-449	211.5	0.04	MAG	MPPprobe
K17-449	212	7.41	MAG	MPPprobe
K17-449	212.5	2.83	MAG	MPPprobe
K17-449	213	6.57	MAG	MPPprobe
K17-449	213.5	1.26	MAG	MPPprobe
K17-449	214	6.07	MAG	MPPprobe
K17-449	214.5	2.54	MAG	MPPprobe
K17-449	215	0.91	MAG	MPPprobe
K17-449	215.5	3.06	MAG	MPPprobe
K17-449	216	4.93	MAG	MPPprobe
K17-449	216.5	4.01	MAG	MPPprobe
K17-449	217	3.65	MAG	MPPprobe
K17-449	217.5	3.14	MAG	MPPprobe
K17-449	218	1.4	MAG	MPPprobe
K17-449	218.5	2.35	MAG	MPPprobe
K17-449	219	0.76	MAG	MPPprobe
K17-449	219.5	2.23	MAG	MPPprobe
K17-449	220	1.47	MAG	MPPprobe
K17-449	220.5	3.88	MAG	MPPprobe
K17-449	221	0.19	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	221.5	1.01	MAG	MPPprobe
K17-449	222	1.05	MAG	MPPprobe
K17-449	222.5	0.5	MAG	MPPprobe
K17-449	223	7.35	MAG	MPPprobe
K17-449	223.5	1.2	MAG	MPPprobe
K17-449	224	0.66	MAG	MPPprobe
K17-449	224.5	0.58	MAG	MPPprobe
K17-449	225	4.27	MAG	MPPprobe
K17-449	225.5	0.89	MAG	MPPprobe
K17-449	226	0.04	MAG	MPPprobe
K17-449	226.5	8.84	MAG	MPPprobe
K17-449	227	1.3	MAG	MPPprobe
K17-449	227.5	1.28	MAG	MPPprobe
K17-449	228	3.39	MAG	MPPprobe
K17-449	228.5	0.87	MAG	MPPprobe
K17-449	229	1.45	MAG	MPPprobe
K17-449	229.5	0.78	MAG	MPPprobe
K17-449	230	0.76	MAG	MPPprobe
K17-449	230.5	3.65	MAG	MPPprobe
K17-449	231	0.47	MAG	MPPprobe
K17-449	231.5	0.64	MAG	MPPprobe
K17-449	232	1.65	MAG	MPPprobe
K17-449	232.5	1.01	MAG	MPPprobe
K17-449	233	1.38	MAG	MPPprobe
K17-449	233.5	0.45	MAG	MPPprobe
K17-449	234	0.56	MAG	MPPprobe
K17-449	234.5	2.06	MAG	MPPprobe
K17-449	235	0.04	MAG	MPPprobe
K17-449	235.5	0.25	MAG	MPPprobe
K17-449	236	0.06	MAG	MPPprobe
K17-449	236.5	1.05	MAG	MPPprobe
K17-449	237	5.9	MAG	MPPprobe
K17-449	237.5	0.41	MAG	MPPprobe
K17-449	238	0	MAG	MPPprobe
K17-449	238.5	0.17	MAG	MPPprobe
K17-449	239	0.04	MAG	MPPprobe
K17-449	239.5	0.1	MAG	MPPprobe
K17-449	240	1.16	MAG	MPPprobe
K17-449	240.5	0.1	MAG	MPPprobe
K17-449	241	0.37	MAG	MPPprobe
K17-449	241.5	0	MAG	MPPprobe
K17-449	242	0.27	MAG	MPPprobe
K17-449	242.5	0.56	MAG	MPPprobe
K17-449	243	0.6	MAG	MPPprobe
K17-449	243.5	6.03	MAG	MPPprobe
K17-449	244	0.19	MAG	MPPprobe
K17-449	244.5	0.29	MAG	MPPprobe
K17-449	245	0.23	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	245.5	0	MAG	MPPprobe
K17-449	246	0	MAG	MPPprobe
K17-449	246.5	0	MAG	MPPprobe
K17-449	247	0	MAG	MPPprobe
K17-449	247.5	0.19	MAG	MPPprobe
K17-449	248	0	MAG	MPPprobe
K17-449	248.5	0	MAG	MPPprobe
K17-449	249	0	MAG	MPPprobe
K17-449	249.5	0	MAG	MPPprobe
K17-449	250	0.91	MAG	MPPprobe
K17-449	250.5	5.22	MAG	MPPprobe
K17-449	251	0	MAG	MPPprobe
K17-449	251.5	0	MAG	MPPprobe
K17-449	252	0	MAG	MPPprobe
K17-449	252.5	0	MAG	MPPprobe
K17-449	253	0.1	MAG	MPPprobe
K17-449	253.5	0	MAG	MPPprobe
K17-449	254	0	MAG	MPPprobe
K17-449	254.5	0	MAG	MPPprobe
K17-449	255	0	MAG	MPPprobe
K17-449	255.5	0	MAG	MPPprobe
K17-449	256	0	MAG	MPPprobe
K17-449	256.5	0	MAG	MPPprobe
K17-449	257	0.37	MAG	MPPprobe
K17-449	257.5	0	MAG	MPPprobe
K17-449	258	0	MAG	MPPprobe
K17-449	258.5	0	MAG	MPPprobe
K17-449	259	0.06	MAG	MPPprobe
K17-449	259.5	0	MAG	MPPprobe
K17-449	260	0.06	MAG	MPPprobe
K17-449	260.5	0	MAG	MPPprobe
K17-449	261	0.1	MAG	MPPprobe
K17-449	261.5	0.8	MAG	MPPprobe
K17-449	262	1.2	MAG	MPPprobe
K17-449	262.5	1.01	MAG	MPPprobe
K17-449	263	1.63	MAG	MPPprobe
K17-449	263.5	3.98	MAG	MPPprobe
K17-449	264	3.65	MAG	MPPprobe
K17-449	264.5	5.16	MAG	MPPprobe
K17-449	265	4.15	MAG	MPPprobe
K17-449	265.5	2.66	MAG	MPPprobe
K17-449	266	8.5	MAG	MPPprobe
K17-449	266.5	4.13	MAG	MPPprobe
K17-449	267	3.8	MAG	MPPprobe
K17-449	267.5	4.06	MAG	MPPprobe
K17-449	268	2.41	MAG	MPPprobe
K17-449	268.5	6.71	MAG	MPPprobe
K17-449	269	2.04	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	269.5	4.06	MAG	MPPprobe
K17-449	270	3.69	MAG	MPPprobe
K17-449	270.5	5.14	MAG	MPPprobe
K17-449	271	3.55	MAG	MPPprobe
K17-449	271.5	4.13	MAG	MPPprobe
K17-449	272	0.99	MAG	MPPprobe
K17-449	272.5	5.94	MAG	MPPprobe
K17-449	273	0.93	MAG	MPPprobe
K17-449	273.5	1.82	MAG	MPPprobe
K17-449	274	2.35	MAG	MPPprobe
K17-449	274.5	6.29	MAG	MPPprobe
K17-449	275	7.94	MAG	MPPprobe
K17-449	275.5	2.08	MAG	MPPprobe
K17-449	276	0.04	MAG	MPPprobe
K17-449	276.5	0.74	MAG	MPPprobe
K17-449	277	0.31	MAG	MPPprobe
K17-449	277.5	0.68	MAG	MPPprobe
K17-449	278	3.16	MAG	MPPprobe
K17-449	278.5	9.16	MAG	MPPprobe
K17-449	279	5.49	MAG	MPPprobe
K17-449	279.5	1.28	MAG	MPPprobe
K17-449	280	0.17	MAG	MPPprobe
K17-449	280.5	2.72	MAG	MPPprobe
K17-449	281	11.5	MAG	MPPprobe
K17-449	281.5	0	MAG	MPPprobe
K17-449	282	0.64	MAG	MPPprobe
K17-449	282.5	1.36	MAG	MPPprobe
K17-449	283	0.7	MAG	MPPprobe
K17-449	283.5	0.95	MAG	MPPprobe
K17-449	284	0.97	MAG	MPPprobe
K17-449	284.5	0.43	MAG	MPPprobe
K17-449	285	3.28	MAG	MPPprobe
K17-449	285.5	3.36	MAG	MPPprobe
K17-449	286	5.16	MAG	MPPprobe
K17-449	286.5	11.1	MAG	MPPprobe
K17-449	287	16.4	MAG	MPPprobe
K17-449	287.5	7.33	MAG	MPPprobe
K17-449	288	0.85	MAG	MPPprobe
K17-449	288.5	9.31	MAG	MPPprobe
K17-449	289	3.3	MAG	MPPprobe
K17-449	289.5	0.27	MAG	MPPprobe
K17-449	290	2.85	MAG	MPPprobe
K17-449	290.5	0.6	MAG	MPPprobe
K17-449	291	2.64	MAG	MPPprobe
K17-449	291.5	2.19	MAG	MPPprobe
K17-449	292	2.37	MAG	MPPprobe
K17-449	292.5	3.38	MAG	MPPprobe
K17-449	293	2.56	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	293.5	0.68	MAG	MPPprobe
K17-449	294	0.95	MAG	MPPprobe
K17-449	294.5	5.16	MAG	MPPprobe
K17-449	295	8.19	MAG	MPPprobe
K17-449	295.5	1.88	MAG	MPPprobe
K17-449	296	7.99	MAG	MPPprobe
K17-449	296.5	3.96	MAG	MPPprobe
K17-449	297	5.1	MAG	MPPprobe
K17-449	297.5	2.19	MAG	MPPprobe
K17-449	298	0.76	MAG	MPPprobe
K17-449	298.5	0.29	MAG	MPPprobe
K17-449	299	0	MAG	MPPprobe
K17-449	299.5	2.08	MAG	MPPprobe
K17-449	300	0.17	MAG	MPPprobe
K17-449	300.5	4.29	MAG	MPPprobe
K17-449	301	2.19	MAG	MPPprobe
K17-449	301.5	4.13	MAG	MPPprobe
K17-449	302	1.94	MAG	MPPprobe
K17-449	302.5	4.27	MAG	MPPprobe
K17-449	303	1.49	MAG	MPPprobe
K17-449	303.5	0.27	MAG	MPPprobe
K17-449	304	3.36	MAG	MPPprobe
K17-449	304.5	1.18	MAG	MPPprobe
K17-449	305	1.09	MAG	MPPprobe
K17-449	305.5	0.54	MAG	MPPprobe
K17-449	306	0.85	MAG	MPPprobe
K17-449	306.5	0.72	MAG	MPPprobe
K17-449	307	0.56	MAG	MPPprobe
K17-449	307.5	0.78	MAG	MPPprobe
K17-449	308	0.56	MAG	MPPprobe
K17-449	308.5	1.51	MAG	MPPprobe
K17-449	309	5.63	MAG	MPPprobe
K17-449	309.5	0.45	MAG	MPPprobe
K17-449	310	5.26	MAG	MPPprobe
K17-449	310.5	0.78	MAG	MPPprobe
K17-449	311	0.87	MAG	MPPprobe
K17-449	311.5	1.26	MAG	MPPprobe
K17-449	312	1.88	MAG	MPPprobe
K17-449	312.5	0.99	MAG	MPPprobe
K17-449	313	0.91	MAG	MPPprobe
K17-449	313.5	0.58	MAG	MPPprobe
K17-449	314	1.03	MAG	MPPprobe
K17-449	314.5	5.34	MAG	MPPprobe
K17-449	315	1.05	MAG	MPPprobe
K17-449	315.5	0.58	MAG	MPPprobe
K17-449	316	0.39	MAG	MPPprobe
K17-449	316.5	2.79	MAG	MPPprobe
K17-449	317	1.51	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	317.5	3.24	MAG	MPPprobe
K17-449	318	2.46	MAG	MPPprobe
K17-449	318.5	5.84	MAG	MPPprobe
K17-449	319	6.56	MAG	MPPprobe
K17-449	319.5	5.55	MAG	MPPprobe
K17-449	320	9.02	MAG	MPPprobe
K17-449	320.5	1.55	MAG	MPPprobe
K17-449	321	4.56	MAG	MPPprobe
K17-449	321.5	1.9	MAG	MPPprobe
K17-449	322	6.42	MAG	MPPprobe
K17-449	322.5	7.72	MAG	MPPprobe
K17-449	323	5.76	MAG	MPPprobe
K17-449	323.5	3.82	MAG	MPPprobe
K17-449	324	4.04	MAG	MPPprobe
K17-449	324.5	5.49	MAG	MPPprobe
K17-449	325	5.14	MAG	MPPprobe
K17-449	325.5	6.25	MAG	MPPprobe
K17-449	326	16.3	MAG	MPPprobe
K17-449	326.5	2	MAG	MPPprobe
K17-449	327	3.1	MAG	MPPprobe
K17-449	327.5	2.29	MAG	MPPprobe
K17-449	328	2.11	MAG	MPPprobe
K17-449	328.5	8.79	MAG	MPPprobe
K17-449	329	1.09	MAG	MPPprobe
K17-449	329.5	8.69	MAG	MPPprobe
K17-449	330	3.16	MAG	MPPprobe
K17-449	330.5	3.55	MAG	MPPprobe
K17-449	331	0.66	MAG	MPPprobe
K17-449	331.5	0.64	MAG	MPPprobe
K17-449	332	0.31	MAG	MPPprobe
K17-449	332.5	0.72	MAG	MPPprobe
K17-449	333	0.58	MAG	MPPprobe
K17-449	333.5	3.2	MAG	MPPprobe
K17-449	334	0.99	MAG	MPPprobe
K17-449	334.5	2.6	MAG	MPPprobe
K17-449	335	0.68	MAG	MPPprobe
K17-449	335.5	2.31	MAG	MPPprobe
K17-449	336	0.56	MAG	MPPprobe
K17-449	336.5	0.58	MAG	MPPprobe
K17-449	337	6.46	MAG	MPPprobe
K17-449	337.5	0.91	MAG	MPPprobe
K17-449	338	0.27	MAG	MPPprobe
K17-449	338.5	0.1	MAG	MPPprobe
K17-449	339	13.6	MAG	MPPprobe
K17-449	339.5	0.37	MAG	MPPprobe
K17-449	340	0.41	MAG	MPPprobe
K17-449	340.5	0.58	MAG	MPPprobe
K17-449	341	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	341.5	0.37	MAG	MPPprobe
K17-449	342	2.33	MAG	MPPprobe
K17-449	342.5	0.72	MAG	MPPprobe
K17-449	343	1.18	MAG	MPPprobe
K17-449	343.5	0.06	MAG	MPPprobe
K17-449	344	0.02	MAG	MPPprobe
K17-449	344.5	0.29	MAG	MPPprobe
K17-449	345	0.37	MAG	MPPprobe
K17-449	345.5	0.04	MAG	MPPprobe
K17-449	346	0	MAG	MPPprobe
K17-449	346.5	0.27	MAG	MPPprobe
K17-449	347	0.1	MAG	MPPprobe
K17-449	347.5	0	MAG	MPPprobe
K17-449	348	0.17	MAG	MPPprobe
K17-449	348.5	0.25	MAG	MPPprobe
K17-449	349	0.54	MAG	MPPprobe
K17-449	349.5	1.2	MAG	MPPprobe
K17-449	350	0.31	MAG	MPPprobe
K17-449	350.5	0.29	MAG	MPPprobe
K17-449	351	0.25	MAG	MPPprobe
K17-449	351.5	0.62	MAG	MPPprobe
K17-449	352	0.43	MAG	MPPprobe
K17-449	352.5	0.41	MAG	MPPprobe
K17-449	353	0.35	MAG	MPPprobe
K17-449	353.5	0.97	MAG	MPPprobe
K17-449	354	0.78	MAG	MPPprobe
K17-449	354.5	0.21	MAG	MPPprobe
K17-449	355	0.12	MAG	MPPprobe
K17-449	355.5	0.31	MAG	MPPprobe
K17-449	356	0.66	MAG	MPPprobe
K17-449	356.5	0.1	MAG	MPPprobe
K17-449	357	0.68	MAG	MPPprobe
K17-449	357.5	1.94	MAG	MPPprobe
K17-449	358	0.68	MAG	MPPprobe
K17-449	358.5	0.74	MAG	MPPprobe
K17-449	359	0.62	MAG	MPPprobe
K17-449	359.5	0.76	MAG	MPPprobe
K17-449	360	0.04	MAG	MPPprobe
K17-449	360.5	0.06	MAG	MPPprobe
K17-449	361	0.14	MAG	MPPprobe
K17-449	361.5	0.16	MAG	MPPprobe
K17-449	362	0.35	MAG	MPPprobe
K17-449	362.5	0.27	MAG	MPPprobe
K17-449	363	0.08	MAG	MPPprobe
K17-449	363.5	0.19	MAG	MPPprobe
K17-449	364	0	MAG	MPPprobe
K17-449	364.5	0	MAG	MPPprobe
K17-449	365	0.04	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	365.5	0.12	MAG	MPPprobe
K17-449	366	0.12	MAG	MPPprobe
K17-449	366.5	1.81	MAG	MPPprobe
K17-449	367	3.32	MAG	MPPprobe
K17-449	367.5	6.45	MAG	MPPprobe
K17-449	368	6.54	MAG	MPPprobe
K17-449	368.5	1.63	MAG	MPPprobe
K17-449	369	1.55	MAG	MPPprobe
K17-449	369.5	2.8	MAG	MPPprobe
K17-449	370	0.82	MAG	MPPprobe
K17-449	370.5	6.5	MAG	MPPprobe
K17-449	371	0.91	MAG	MPPprobe
K17-449	371.5	1.07	MAG	MPPprobe
K17-449	372	5.46	MAG	MPPprobe
K17-449	372.5	2.78	MAG	MPPprobe
K17-449	373	1.44	MAG	MPPprobe
K17-449	373.5	0.82	MAG	MPPprobe
K17-449	374	0.12	MAG	MPPprobe
K17-449	374.5	0.33	MAG	MPPprobe
K17-449	375	3.01	MAG	MPPprobe
K17-449	375.5	0.33	MAG	MPPprobe
K17-449	376	2	MAG	MPPprobe
K17-449	376.5	0.93	MAG	MPPprobe
K17-449	377	1.88	MAG	MPPprobe
K17-449	377.5	1.73	MAG	MPPprobe
K17-449	378	4.41	MAG	MPPprobe
K17-449	378.5	3.07	MAG	MPPprobe
K17-449	379	1.09	MAG	MPPprobe
K17-449	379.5	1.11	MAG	MPPprobe
K17-449	380	2.33	MAG	MPPprobe
K17-449	380.5	2.99	MAG	MPPprobe
K17-449	381	2.78	MAG	MPPprobe
K17-449	381.5	1.86	MAG	MPPprobe
K17-449	382	5.26	MAG	MPPprobe
K17-449	382.5	2.83	MAG	MPPprobe
K17-449	383	2.99	MAG	MPPprobe
K17-449	383.5	2.37	MAG	MPPprobe
K17-449	384	5.92	MAG	MPPprobe
K17-449	384.5	4.12	MAG	MPPprobe
K17-449	385	5.67	MAG	MPPprobe
K17-449	385.5	0.47	MAG	MPPprobe
K17-449	386	1.9	MAG	MPPprobe
K17-449	386.5	2.33	MAG	MPPprobe
K17-449	387	1.67	MAG	MPPprobe
K17-449	387.5	2.48	MAG	MPPprobe
K17-449	388	4.37	MAG	MPPprobe
K17-449	388.5	8.91	MAG	MPPprobe
K17-449	389	4.87	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	389.5	1.38	MAG	MPPprobe
K17-449	390	2.21	MAG	MPPprobe
K17-449	390.5	3.01	MAG	MPPprobe
K17-449	391	6.66	MAG	MPPprobe
K17-449	391.5	12.2	MAG	MPPprobe
K17-449	392	6.54	MAG	MPPprobe
K17-449	392.5	6.17	MAG	MPPprobe
K17-449	393	3.14	MAG	MPPprobe
K17-449	393.5	1.34	MAG	MPPprobe
K17-449	394	19.1	MAG	MPPprobe
K17-449	394.5	2.43	MAG	MPPprobe
K17-449	395	3.71	MAG	MPPprobe
K17-449	395.5	1.82	MAG	MPPprobe
K17-449	396	15.5	MAG	MPPprobe
K17-449	396.5	2.79	MAG	MPPprobe
K17-449	397	2.89	MAG	MPPprobe
K17-449	397.5	2.5	MAG	MPPprobe
K17-449	398	2.37	MAG	MPPprobe
K17-449	398.5	1.32	MAG	MPPprobe
K17-449	399	2.48	MAG	MPPprobe
K17-449	399.5	2.27	MAG	MPPprobe
K17-449	400	3.57	MAG	MPPprobe
K17-449	400.5	4.27	MAG	MPPprobe
K17-449	401	1.94	MAG	MPPprobe
K17-449	401.5	0.99	MAG	MPPprobe
K17-449	403	1.73	MAG	MPPprobe
K17-449	403.5	2.29	MAG	MPPprobe
K17-449	404	2.31	MAG	MPPprobe
K17-449	404.5	1.49	MAG	MPPprobe
K17-449	405	3.32	MAG	MPPprobe
K17-449	405.5	3.18	MAG	MPPprobe
K17-449	406	1.3	MAG	MPPprobe
K17-449	406.5	1.53	MAG	MPPprobe
K17-449	407	0.91	MAG	MPPprobe
K17-449	407.5	1.67	MAG	MPPprobe
K17-449	408	0.99	MAG	MPPprobe
K17-449	408.5	1.86	MAG	MPPprobe
K17-449	409	2.31	MAG	MPPprobe
K17-449	409.5	0.58	MAG	MPPprobe
K17-449	410	2.39	MAG	MPPprobe
K17-449	410.5	1.38	MAG	MPPprobe
K17-449	411	0.72	MAG	MPPprobe
K17-449	411.5	0.8	MAG	MPPprobe
K17-449	412	0.93	MAG	MPPprobe
K17-449	412.5	1.18	MAG	MPPprobe
K17-449	413	1.49	MAG	MPPprobe
K17-449	413.5	1.38	MAG	MPPprobe
K17-449	414	1.98	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	414.5	2.91	MAG	MPPprobe
K17-449	415	1.67	MAG	MPPprobe
K17-449	415.5	0.95	MAG	MPPprobe
K17-449	416	1.22	MAG	MPPprobe
K17-449	416.5	1.71	MAG	MPPprobe
K17-449	417	0.76	MAG	MPPprobe
K17-449	417.5	1.49	MAG	MPPprobe
K17-449	418	0.93	MAG	MPPprobe
K17-449	418.5	0.99	MAG	MPPprobe
K17-449	419	1.24	MAG	MPPprobe
K17-449	419.5	4.46	MAG	MPPprobe
K17-449	420	2.62	MAG	MPPprobe
K17-449	420.5	2.15	MAG	MPPprobe
K17-449	421	3.47	MAG	MPPprobe
K17-449	421.5	2.83	MAG	MPPprobe
K17-449	422	2.08	MAG	MPPprobe
K17-449	422.5	1.2	MAG	MPPprobe
K17-449	423	0.72	MAG	MPPprobe
K17-449	423.5	0.6	MAG	MPPprobe
K17-449	424	2.15	MAG	MPPprobe
K17-449	424.5	0.99	MAG	MPPprobe
K17-449	425	2.64	MAG	MPPprobe
K17-449	425.5	1.73	MAG	MPPprobe
K17-449	426	1.11	MAG	MPPprobe
K17-449	426.5	1.26	MAG	MPPprobe
K17-449	427	1.61	MAG	MPPprobe
K17-449	427.5	7.6	MAG	MPPprobe
K17-449	428	4.19	MAG	MPPprobe
K17-449	428.5	4.87	MAG	MPPprobe
K17-449	429	9.06	MAG	MPPprobe
K17-449	429.5	0.93	MAG	MPPprobe
K17-449	430	3.59	MAG	MPPprobe
K17-449	430.5	7.25	MAG	MPPprobe
K17-449	431	3.24	MAG	MPPprobe
K17-449	431.5	4.58	MAG	MPPprobe
K17-449	432	4.13	MAG	MPPprobe
K17-449	432.5	3.18	MAG	MPPprobe
K17-449	433	6.17	MAG	MPPprobe
K17-449	433.5	0.64	MAG	MPPprobe
K17-449	434	0.76	MAG	MPPprobe
K17-449	434.5	2.6	MAG	MPPprobe
K17-449	435	2.19	MAG	MPPprobe
K17-449	435.5	2.02	MAG	MPPprobe
K17-449	436	1.47	MAG	MPPprobe
K17-449	436.5	1.09	MAG	MPPprobe
K17-449	437	2.7	MAG	MPPprobe
K17-449	437.5	2.68	MAG	MPPprobe
K17-449	438	0.97	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	438.5	0.95	MAG	MPPprobe
K17-449	439	1.45	MAG	MPPprobe
K17-449	439.5	3.45	MAG	MPPprobe
K17-449	440	16.3	MAG	MPPprobe
K17-449	440.5	3.28	MAG	MPPprobe
K17-449	441	1.2	MAG	MPPprobe
K17-449	441.5	1.26	MAG	MPPprobe
K17-449	442	2.56	MAG	MPPprobe
K17-449	442.5	1.01	MAG	MPPprobe
K17-449	443	0.83	MAG	MPPprobe
K17-449	443.5	3.34	MAG	MPPprobe
K17-449	444	7.02	MAG	MPPprobe
K17-449	444.5	15.3	MAG	MPPprobe
K17-449	445	2.83	MAG	MPPprobe
K17-449	445.5	2.19	MAG	MPPprobe
K17-449	446	4.42	MAG	MPPprobe
K17-449	446.5	1.26	MAG	MPPprobe
K17-449	447	0.56	MAG	MPPprobe
K17-449	447.5	3.61	MAG	MPPprobe
K17-449	448	0.87	MAG	MPPprobe
K17-449	448.5	14.6	MAG	MPPprobe
K17-449	449	2.99	MAG	MPPprobe
K17-449	449.5	2.15	MAG	MPPprobe
K17-449	450	2.7	MAG	MPPprobe
K17-449	450.5	0.81	MAG	MPPprobe
K17-449	451	1.47	MAG	MPPprobe
K17-449	451.5	0.68	MAG	MPPprobe
K17-449	452	4.46	MAG	MPPprobe
K17-449	452.5	1.88	MAG	MPPprobe
K17-449	453	4.27	MAG	MPPprobe
K17-449	453.5	1.34	MAG	MPPprobe
K17-449	454	0.52	MAG	MPPprobe
K17-449	454.5	1.07	MAG	MPPprobe
K17-449	455	1.22	MAG	MPPprobe
K17-449	455.5	1.09	MAG	MPPprobe
K17-449	456	0.81	MAG	MPPprobe
K17-449	456.5	1.14	MAG	MPPprobe
K17-449	457	1.22	MAG	MPPprobe
K17-449	457.5	1.34	MAG	MPPprobe
K17-449	458	0.5	MAG	MPPprobe
K17-449	458.5	0.56	MAG	MPPprobe
K17-449	459	0.64	MAG	MPPprobe
K17-449	459.5	0.83	MAG	MPPprobe
K17-449	460	0.7	MAG	MPPprobe
K17-449	460.5	1.18	MAG	MPPprobe
K17-449	461	1.18	MAG	MPPprobe
K17-449	461.5	1.09	MAG	MPPprobe
K17-449	462	1.03	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	462.5	0.7	MAG	MPPprobe
K17-449	463	2.33	MAG	MPPprobe
K17-449	463.5	4.56	MAG	MPPprobe
K17-449	464	3.06	MAG	MPPprobe
K17-449	464.5	2.5	MAG	MPPprobe
K17-449	465	1.98	MAG	MPPprobe
K17-449	465.5	4.54	MAG	MPPprobe
K17-449	466	2.77	MAG	MPPprobe
K17-449	466.5	3.68	MAG	MPPprobe
K17-449	467	1.3	MAG	MPPprobe
K17-449	467.5	0.81	MAG	MPPprobe
K17-449	468	1.2	MAG	MPPprobe
K17-449	468.5	1.9	MAG	MPPprobe
K17-449	469	0	MAG	MPPprobe
K17-449	469.5	0.1	MAG	MPPprobe
K17-449	470	0.74	MAG	MPPprobe
K17-449	470.5	0.64	MAG	MPPprobe
K17-449	471	0.39	MAG	MPPprobe
K17-449	471.5	0.31	MAG	MPPprobe
K17-449	472	0.12	MAG	MPPprobe
K17-449	472.5	0.25	MAG	MPPprobe
K17-449	473	0.33	MAG	MPPprobe
K17-449	473.5	0.56	MAG	MPPprobe
K17-449	474	0.64	MAG	MPPprobe
K17-449	474.5	1.15	MAG	MPPprobe
K17-449	475	0.56	MAG	MPPprobe
K17-449	475.5	1.28	MAG	MPPprobe
K17-449	476	0.23	MAG	MPPprobe
K17-449	476.5	0.62	MAG	MPPprobe
K17-449	477	1.81	MAG	MPPprobe
K17-449	477.5	1.77	MAG	MPPprobe
K17-449	478	2.1	MAG	MPPprobe
K17-449	478.5	2.31	MAG	MPPprobe
K17-449	479	1.65	MAG	MPPprobe
K17-449	479.5	1.98	MAG	MPPprobe
K17-449	480	2.17	MAG	MPPprobe
K17-449	480.5	2.52	MAG	MPPprobe
K17-449	481	0.95	MAG	MPPprobe
K17-449	481.5	0.78	MAG	MPPprobe
K17-449	482	1.82	MAG	MPPprobe
K17-449	482.5	2.17	MAG	MPPprobe
K17-449	483	1.36	MAG	MPPprobe
K17-449	483.5	2.72	MAG	MPPprobe
K17-449	484	1.36	MAG	MPPprobe
K17-449	484.5	1.38	MAG	MPPprobe
K17-449	485	2.08	MAG	MPPprobe
K17-449	485.5	1.69	MAG	MPPprobe
K17-449	486	0.99	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	486.5	1.4	MAG	MPPprobe
K17-449	487	2	MAG	MPPprobe
K17-449	487.5	1.9	MAG	MPPprobe
K17-449	488	1.13	MAG	MPPprobe
K17-449	488.5	1.18	MAG	MPPprobe
K17-449	489	1.3	MAG	MPPprobe
K17-449	489.5	1.36	MAG	MPPprobe
K17-449	490	1.71	MAG	MPPprobe
K17-449	490.5	2.04	MAG	MPPprobe
K17-449	491	0.74	MAG	MPPprobe
K17-449	491.5	1.07	MAG	MPPprobe
K17-449	492	0.62	MAG	MPPprobe
K17-449	492.5	0.64	MAG	MPPprobe
K17-449	493	1.07	MAG	MPPprobe
K17-449	493.5	1.26	MAG	MPPprobe
K17-449	494	1.38	MAG	MPPprobe
K17-449	494.5	0.6	MAG	MPPprobe
K17-449	495	0.52	MAG	MPPprobe
K17-449	495.5	0.66	MAG	MPPprobe
K17-449	496	0.76	MAG	MPPprobe
K17-449	496.5	1.32	MAG	MPPprobe
K17-449	497	1.94	MAG	MPPprobe
K17-449	497.5	3.22	MAG	MPPprobe
K17-449	498	0.8	MAG	MPPprobe
K17-449	498.5	1.94	MAG	MPPprobe
K17-449	499	1.36	MAG	MPPprobe
K17-449	499.5	0.83	MAG	MPPprobe
K17-449	500	1.55	MAG	MPPprobe
K17-449	500.5	1.84	MAG	MPPprobe
K17-449	501	1.79	MAG	MPPprobe
K17-449	501.5	0.68	MAG	MPPprobe
K17-449	502	0.52	MAG	MPPprobe
K17-449	502.5	0.95	MAG	MPPprobe
K17-449	503	0.87	MAG	MPPprobe
K17-449	503.5	1.11	MAG	MPPprobe
K17-449	504	3.26	MAG	MPPprobe
K17-449	504.5	4.93	MAG	MPPprobe
K17-449	505	3.69	MAG	MPPprobe
K17-449	505.5	0.64	MAG	MPPprobe
K17-449	506	6.79	MAG	MPPprobe
K17-449	506.5	3.57	MAG	MPPprobe
K17-449	507	0.52	MAG	MPPprobe
K17-449	507.5	0.85	MAG	MPPprobe
K17-449	508	2.15	MAG	MPPprobe
K17-449	508.5	1.22	MAG	MPPprobe
K17-449	509	2.39	MAG	MPPprobe
K17-449	509.5	0.78	MAG	MPPprobe
K17-449	510	0.97	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	510.5	0.87	MAG	MPPprobe
K17-449	511	0.87	MAG	MPPprobe
K17-449	511.5	0.85	MAG	MPPprobe
K17-449	512	0.83	MAG	MPPprobe
K17-449	512.5	0.58	MAG	MPPprobe
K17-449	513	0.74	MAG	MPPprobe
K17-449	513.5	1.61	MAG	MPPprobe
K17-449	514	0.74	MAG	MPPprobe
K17-449	514.5	0.78	MAG	MPPprobe
K17-449	515	0.85	MAG	MPPprobe
K17-449	515.5		MAG	MPPprobe
K17-449	516		MAG	MPPprobe
K17-449	516.5		MAG	MPPprobe
K17-449	517	0.87	MAG	MPPprobe
K17-449	517.5		MAG	MPPprobe
K17-449	518	1.07	MAG	MPPprobe
K17-449	518.5		MAG	MPPprobe
K17-449	519		MAG	MPPprobe
K17-449	519.5		MAG	MPPprobe
K17-449	520		MAG	MPPprobe
K17-449	520.5	0.6	MAG	MPPprobe
K17-449	521	0.56	MAG	MPPprobe
K17-449	521.5		MAG	MPPprobe
K17-449	522		MAG	MPPprobe
K17-449	522.5		MAG	MPPprobe
K17-449	523	1.05	MAG	MPPprobe
K17-449	523.5	0.83	MAG	MPPprobe
K17-449	524	1.05	MAG	MPPprobe
K17-449	524.5	0.93	MAG	MPPprobe
K17-449	525	0.85	MAG	MPPprobe
K17-449	525.5	0.89	MAG	MPPprobe
K17-449	526	0.78	MAG	MPPprobe
K17-449	526.5	0.83	MAG	MPPprobe
K17-449	527	1.44	MAG	MPPprobe
K17-449	527.5	2.78	MAG	MPPprobe
K17-449	528	0.56	MAG	MPPprobe
K17-449	528.5	0.66	MAG	MPPprobe
K17-449	529	0.54	MAG	MPPprobe
K17-449	529.5	0.76	MAG	MPPprobe
K17-449	530		MAG	MPPprobe
K17-449	530.5	1.01	MAG	MPPprobe
K17-449	531	1.18	MAG	MPPprobe
K17-449	531.5	1.59	MAG	MPPprobe
K17-449	532	1.51	MAG	MPPprobe
K17-449	532.5	1.55	MAG	MPPprobe
K17-449	533	1.05	MAG	MPPprobe
K17-449	533.5	1.67	MAG	MPPprobe
K17-449	534	1.67	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	534.5	1.53	MAG	MPPprobe
K17-449	535	2.56	MAG	MPPprobe
K17-449	535.5	1.11	MAG	MPPprobe
K17-449	536	1.28	MAG	MPPprobe
K17-449	536.5	0.72	MAG	MPPprobe
K17-449	537	0.7	MAG	MPPprobe
K17-449	537.5	0.7	MAG	MPPprobe
K17-449	538	2.12	MAG	MPPprobe
K17-449	538.5	1.69	MAG	MPPprobe
K17-449	539	2.02	MAG	MPPprobe
K17-449	539.5	2.04	MAG	MPPprobe
K17-449	540	1.01	MAG	MPPprobe
K17-449	540.5	1.55	MAG	MPPprobe
K17-449	541	2.62	MAG	MPPprobe
K17-449	541.5	2.25	MAG	MPPprobe
K17-449	542	1.94	MAG	MPPprobe
K17-449	542.5	1.49	MAG	MPPprobe
K17-449	543	0.91	MAG	MPPprobe
K17-449	543.5	3.32	MAG	MPPprobe
K17-449	544	2.35	MAG	MPPprobe
K17-449	544.5	2.58	MAG	MPPprobe
K17-449	545	2.06	MAG	MPPprobe
K17-449	545.5	1.44	MAG	MPPprobe
K17-449	546	1.55	MAG	MPPprobe
K17-449	546.5	1.69	MAG	MPPprobe
K17-449	547	1.75	MAG	MPPprobe
K17-449	547.5	2.37	MAG	MPPprobe
K17-449	548	1.63	MAG	MPPprobe
K17-449	548.5	1.71	MAG	MPPprobe
K17-449	549	2.02	MAG	MPPprobe
K17-449	549.5	3.67	MAG	MPPprobe
K17-449	550	0.64	MAG	MPPprobe
K17-449	550.5	2.64	MAG	MPPprobe
K17-449	551	0.89	MAG	MPPprobe
K17-449	551.5	0.6	MAG	MPPprobe
K17-449	552	0.78	MAG	MPPprobe
K17-449	552.5	0.54	MAG	MPPprobe
K17-449	553	0.52	MAG	MPPprobe
K17-449	553.5	0.78	MAG	MPPprobe
K17-449	554	0.76	MAG	MPPprobe
K17-449	554.5	0.68	MAG	MPPprobe
K17-449	555	1.42	MAG	MPPprobe
K17-449	555.5	0.99	MAG	MPPprobe
K17-449	556	2.83	MAG	MPPprobe
K17-449	556.5	1.05	MAG	MPPprobe
K17-449	557	0.56	MAG	MPPprobe
K17-449	557.5	0.54	MAG	MPPprobe
K17-449	558	5.36	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	558.5	0.78	MAG	MPPprobe
K17-449	559	0.58	MAG	MPPprobe
K17-449	559.5	0.52	MAG	MPPprobe
K17-449	560	1.42	MAG	MPPprobe
K17-449	560.5	1.03	MAG	MPPprobe
K17-449	561	4.83	MAG	MPPprobe
K17-449	561.5	1.65	MAG	MPPprobe
K17-449	562	1.77	MAG	MPPprobe
K17-449	562.5	1.4	MAG	MPPprobe
K17-449	563	0.72	MAG	MPPprobe
K17-449	563.5	0.85	MAG	MPPprobe
K17-449	564	9.08	MAG	MPPprobe
K17-449	564.5	6.29	MAG	MPPprobe
K17-449	565	3.75	MAG	MPPprobe
K17-449	565.5	10.6	MAG	MPPprobe
K17-449	566	0.6	MAG	MPPprobe
K17-449	566.5	0.97	MAG	MPPprobe
K17-449	567	1.09	MAG	MPPprobe
K17-449	567.5	1.07	MAG	MPPprobe
K17-449	568	1.01	MAG	MPPprobe
K17-449	568.5	0.95	MAG	MPPprobe
K17-449	569	0.93	MAG	MPPprobe
K17-449	569.5	0.5	MAG	MPPprobe
K17-449	570	0.56	MAG	MPPprobe
K17-449	570.5	0.27	MAG	MPPprobe
K17-449	571	0.54	MAG	MPPprobe
K17-449	571.5	0.72	MAG	MPPprobe
K17-449	572	0.56	MAG	MPPprobe
K17-449	572.5	1.65	MAG	MPPprobe
K17-449	573	1.18	MAG	MPPprobe
K17-449	573.5	2.46	MAG	MPPprobe
K17-449	574	0.78	MAG	MPPprobe
K17-449	574.5	0.66	MAG	MPPprobe
K17-449	575	0.5	MAG	MPPprobe
K17-449	575.5	0.52	MAG	MPPprobe
K17-449	576	0.83	MAG	MPPprobe
K17-449	576.5	0	MAG	MPPprobe
K17-449	577	0.31	MAG	MPPprobe
K17-449	577.5	0	MAG	MPPprobe
K17-449	578	0.85	MAG	MPPprobe
K17-449	578.5	0.74	MAG	MPPprobe
K17-449	579	0.54	MAG	MPPprobe
K17-449	579.5	0.85	MAG	MPPprobe
K17-449	580	0.43	MAG	MPPprobe
K17-449	580.5	0	MAG	MPPprobe
K17-449	581	0	MAG	MPPprobe
K17-449	581.5	0.25	MAG	MPPprobe
K17-449	582	0.25	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	582.5	0.89	MAG	MPPprobe
K17-449	583	0.78	MAG	MPPprobe
K17-449	583.5	0.95	MAG	MPPprobe
K17-449	584	0.06	MAG	MPPprobe
K17-449	584.5	0.14	MAG	MPPprobe
K17-449	585	0.66	MAG	MPPprobe
K17-449	585.5	0	MAG	MPPprobe
K17-449	586	0.21	MAG	MPPprobe
K17-449	586.5	0	MAG	MPPprobe
K17-449	587	0.1	MAG	MPPprobe
K17-449	587.5	0.02	MAG	MPPprobe
K17-449	588	0.21	MAG	MPPprobe
K17-449	588.5	1.03	MAG	MPPprobe
K17-449	589	0.72	MAG	MPPprobe
K17-449	589.5	0.54	MAG	MPPprobe
K17-449	590	0.06	MAG	MPPprobe
K17-449	590.5	0.58	MAG	MPPprobe
K17-449	591	2.31	MAG	MPPprobe
K17-449	591.5	0.93	MAG	MPPprobe
K17-449	592	1.16	MAG	MPPprobe
K17-449	592.5	0.97	MAG	MPPprobe
K17-449	593	0.66	MAG	MPPprobe
K17-449	593.5	1.32	MAG	MPPprobe
K17-449	594	1.2	MAG	MPPprobe
K17-449	594.5	1.3	MAG	MPPprobe
K17-449	595	1.32	MAG	MPPprobe
K17-449	595.5	1.32	MAG	MPPprobe
K17-449	596	1.55	MAG	MPPprobe
K17-449	596.5	0.76	MAG	MPPprobe
K17-449	597	1.09	MAG	MPPprobe
K17-449	597.5	2.48	MAG	MPPprobe
K17-449	598	0.87	MAG	MPPprobe
K17-449	598.5	2.25	MAG	MPPprobe
K17-449	599	3.28	MAG	MPPprobe
K17-449	599.5	0.97	MAG	MPPprobe
K17-449	600	1.16	MAG	MPPprobe
K17-449	600.5	1.38	MAG	MPPprobe
K17-449	601	0.25	MAG	MPPprobe
K17-449	601.5	0.62	MAG	MPPprobe
K17-449	602	0.64	MAG	MPPprobe
K17-449	602.5	0.74	MAG	MPPprobe
K17-449	603	0.37	MAG	MPPprobe
K17-449	603.5	0.23	MAG	MPPprobe
K17-449	604	0.76	MAG	MPPprobe
K17-449	604.5	0.5	MAG	MPPprobe
K17-449	605	0.45	MAG	MPPprobe
K17-449	605.5	0.56	MAG	MPPprobe
K17-449	606	0.23	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	606.5	0.37	MAG	MPPprobe
K17-449	607	0.5	MAG	MPPprobe
K17-449	607.5	0.89	MAG	MPPprobe
K17-449	608	0.68	MAG	MPPprobe
K17-449	608.5	0.74	MAG	MPPprobe
K17-449	609	1.03	MAG	MPPprobe
K17-449	609.5	1.05	MAG	MPPprobe
K17-449	610	2.81	MAG	MPPprobe
K17-449	610.5	1.01	MAG	MPPprobe
K17-449	611	0.83	MAG	MPPprobe
K17-449	611.5	3.32	MAG	MPPprobe
K17-449	612	2.29	MAG	MPPprobe
K17-449	612.5	8.42	MAG	MPPprobe
K17-449	613	3.88	MAG	MPPprobe
K17-449	613.5	0.68	MAG	MPPprobe
K17-449	614	0.31	MAG	MPPprobe
K17-449	614.5	0.06	MAG	MPPprobe
K17-449	615	1.01	MAG	MPPprobe
K17-449	615.5	0.76	MAG	MPPprobe
K17-449	616	0.31	MAG	MPPprobe
K17-449	616.5	0.35	MAG	MPPprobe
K17-449	617	0.99	MAG	MPPprobe
K17-449	617.5	0.29	MAG	MPPprobe
K17-449	618	0.7	MAG	MPPprobe
K17-449	618.5	1.01	MAG	MPPprobe
K17-449	619	1.2	MAG	MPPprobe
K17-449	619.5	1.07	MAG	MPPprobe
K17-449	620	6.58	MAG	MPPprobe
K17-449	620.5	0.37	MAG	MPPprobe
K17-449	621	0.91	MAG	MPPprobe
K17-449	621.5	0.83	MAG	MPPprobe
K17-449	622	0.64	MAG	MPPprobe
K17-449	622.5	0.12	MAG	MPPprobe
K17-449	623	0.52	MAG	MPPprobe
K17-449	623.5	0.54	MAG	MPPprobe
K17-449	624	0.39	MAG	MPPprobe
K17-449	624.5	0.89	MAG	MPPprobe
K17-449	625	1.4	MAG	MPPprobe
K17-449	625.5	3.3	MAG	MPPprobe
K17-449	626	3.24	MAG	MPPprobe
K17-449	626.5	0.17	MAG	MPPprobe
K17-449	627	0.21	MAG	MPPprobe
K17-449	627.5	1.22	MAG	MPPprobe
K17-449	628	0.17	MAG	MPPprobe
K17-449	628.5	0.93	MAG	MPPprobe
K17-449	629	0.93	MAG	MPPprobe
K17-449	629.5	0.93	MAG	MPPprobe
K17-449	630	1.01	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	630.5	0.58	MAG	MPPprobe
K17-449	631	0.85	MAG	MPPprobe
K17-449	631.5	0.6	MAG	MPPprobe
K17-449	632	0.66	MAG	MPPprobe
K17-449	632.5	0.7	MAG	MPPprobe
K17-449	633	0.54	MAG	MPPprobe
K17-449	633.5	0.66	MAG	MPPprobe
K17-449	634	0.8	MAG	MPPprobe
K17-449	634.5	0.99	MAG	MPPprobe
K17-449	635	1.01	MAG	MPPprobe
K17-449	635.5	0.93	MAG	MPPprobe
K17-449	636	1.01	MAG	MPPprobe
K17-449	636.5	1.92	MAG	MPPprobe
K17-449	637	0.78	MAG	MPPprobe
K17-449	637.5	0.7	MAG	MPPprobe
K17-449	638	0.68	MAG	MPPprobe
K17-449	638.5	0.83	MAG	MPPprobe
K17-449	639	1.05	MAG	MPPprobe
K17-449	639.5	0.74	MAG	MPPprobe
K17-449	640	2.06	MAG	MPPprobe
K17-449	640.5	0.66	MAG	MPPprobe
K17-449	641	0.47	MAG	MPPprobe
K17-449	641.5	0.58	MAG	MPPprobe
K17-449	642	2.27	MAG	MPPprobe
K17-449	642.5	3.41	MAG	MPPprobe
K17-449	643	0.52	MAG	MPPprobe
K17-449	643.5	0.85	MAG	MPPprobe
K17-449	644	2.35	MAG	MPPprobe
K17-449	644.5	0.85	MAG	MPPprobe
K17-449	645	0.5	MAG	MPPprobe
K17-449	645.5	0.58	MAG	MPPprobe
K17-449	646	0.33	MAG	MPPprobe
K17-449	646.5	0.85	MAG	MPPprobe
K17-449	647	0.19	MAG	MPPprobe
K17-449	647.5	0.68	MAG	MPPprobe
K17-449	648	0.74	MAG	MPPprobe
K17-449	648.5	2.37	MAG	MPPprobe
K17-449	649	3.41	MAG	MPPprobe
K17-449	649.5	7.27	MAG	MPPprobe
K17-449	650	3.96	MAG	MPPprobe
K17-449	650.5	1.69	MAG	MPPprobe
K17-449	651	0.99	MAG	MPPprobe
K17-449	651.5	1.78	MAG	MPPprobe
K17-449	652	0.7	MAG	MPPprobe
K17-449	652.5	0.08	MAG	MPPprobe
K17-449	653	0.37	MAG	MPPprobe
K17-449	653.5	0.47	MAG	MPPprobe
K17-449	654	0.29	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	654.5	0.41	MAG	MPPprobe
K17-449	655	0.14	MAG	MPPprobe
K17-449	655.5	0.39	MAG	MPPprobe
K17-449	656	0.41	MAG	MPPprobe
K17-449	656.5	0.81	MAG	MPPprobe
K17-449	657	0.08	MAG	MPPprobe
K17-449	657.5	0.56	MAG	MPPprobe
K17-449	658	0.66	MAG	MPPprobe
K17-449	658.5	0.29	MAG	MPPprobe
K17-449	659	0.5	MAG	MPPprobe
K17-449	659.5	0.97	MAG	MPPprobe
K17-449	660	0.85	MAG	MPPprobe
K17-449	660.5	1.01	MAG	MPPprobe
K17-449	661	0.25	MAG	MPPprobe
K17-449	661.5	0.47	MAG	MPPprobe
K17-449	662	0.47	MAG	MPPprobe
K17-449	662.5	0.19	MAG	MPPprobe
K17-449	663	0.31	MAG	MPPprobe
K17-449	663.5	0.33	MAG	MPPprobe
K17-449	664	0.64	MAG	MPPprobe
K17-449	664.5	0.41	MAG	MPPprobe
K17-449	665	0.41	MAG	MPPprobe
K17-449	665.5	0.27	MAG	MPPprobe
K17-449	666	0.25	MAG	MPPprobe
K17-449	666.5	0.25	MAG	MPPprobe
K17-449	667	0.47	MAG	MPPprobe
K17-449	667.5	0.27	MAG	MPPprobe
K17-449	668	0.78	MAG	MPPprobe
K17-449	668.5	0.91	MAG	MPPprobe
K17-449	669	0.45	MAG	MPPprobe
K17-449	669.5	0.41	MAG	MPPprobe
K17-449	670	0.78	MAG	MPPprobe
K17-449	670.5	0.68	MAG	MPPprobe
K17-449	671	0.08	MAG	MPPprobe
K17-449	671.5	0.33	MAG	MPPprobe
K17-449	672	0.21	MAG	MPPprobe
K17-449	672.5	0.47	MAG	MPPprobe
K17-449	673	0.52	MAG	MPPprobe
K17-449	673.5	0.58	MAG	MPPprobe
K17-449	674	0.45	MAG	MPPprobe
K17-449	674.5	0.35	MAG	MPPprobe
K17-449	675	0.99	MAG	MPPprobe
K17-449	675.5	3.59	MAG	MPPprobe
K17-449	676	1.55	MAG	MPPprobe
K17-449	676.5	3.7	MAG	MPPprobe
K17-449	677	0.68	MAG	MPPprobe
K17-449	677.5	1.51	MAG	MPPprobe
K17-449	678	1.9	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	678.5	1.22	MAG	MPPprobe
K17-449	679	0.56	MAG	MPPprobe
K17-449	679.5	0.39	MAG	MPPprobe
K17-449	680	2.08	MAG	MPPprobe
K17-449	680.5	1.3	MAG	MPPprobe
K17-449	681	0.52	MAG	MPPprobe
K17-449	681.5	0.25	MAG	MPPprobe
K17-449	682	0.19	MAG	MPPprobe
K17-449	682.5	0.72	MAG	MPPprobe
K17-449	683	2.77	MAG	MPPprobe
K17-449	683.5	1.01	MAG	MPPprobe
K17-449	684	0.68	MAG	MPPprobe
K17-449	684.5	0.74	MAG	MPPprobe
K17-449	685	0.25	MAG	MPPprobe
K17-449	685.5	0.23	MAG	MPPprobe
K17-449	686	0.29	MAG	MPPprobe
K17-449	686.5	0.52	MAG	MPPprobe
K17-449	687	0.54	MAG	MPPprobe
K17-449	687.5	0.93	MAG	MPPprobe
K17-449	688	0.33	MAG	MPPprobe
K17-449	688.5	1.16	MAG	MPPprobe
K17-449	689	0.64	MAG	MPPprobe
K17-449	689.5	0.56	MAG	MPPprobe
K17-449	690	1.55	MAG	MPPprobe
K17-449	690.5	1.09	MAG	MPPprobe
K17-449	691	1.24	MAG	MPPprobe
K17-449	691.5	2.52	MAG	MPPprobe
K17-449	692	0.68	MAG	MPPprobe
K17-449	692.5	2.21	MAG	MPPprobe
K17-449	693	1.53	MAG	MPPprobe
K17-449	693.5	0.21	MAG	MPPprobe
K17-449	694	0.78	MAG	MPPprobe
K17-449	694.5	1.22	MAG	MPPprobe
K17-449	695	1.59	MAG	MPPprobe
K17-449	695.5	1.42	MAG	MPPprobe
K17-449	696	0.1	MAG	MPPprobe
K17-449	696.5	1.44	MAG	MPPprobe
K17-449	697	0.23	MAG	MPPprobe
K17-449	697.5	0.35	MAG	MPPprobe
K17-449	698	0.52	MAG	MPPprobe
K17-449	698.5	0.72	MAG	MPPprobe
K17-449	699	0	MAG	MPPprobe
K17-449	699.5	0.43	MAG	MPPprobe
K17-449	700	0.21	MAG	MPPprobe
K17-449	700.5	0.17	MAG	MPPprobe
K17-449	701	0.66	MAG	MPPprobe
K17-449	701.5	0.29	MAG	MPPprobe
K17-449	702	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	702.5	0.06	MAG	MPPprobe
K17-449	703	0.35	MAG	MPPprobe
K17-449	703.5	0.23	MAG	MPPprobe
K17-449	704	0.23	MAG	MPPprobe
K17-449	704.5	0.1	MAG	MPPprobe
K17-449	705	0.08	MAG	MPPprobe
K17-449	705.5	0	MAG	MPPprobe
K17-449	706	0	MAG	MPPprobe
K17-449	706.5	0.21	MAG	MPPprobe
K17-449	707	3.36	MAG	MPPprobe
K17-449	707.5	0.33	MAG	MPPprobe
K17-449	708	3.22	MAG	MPPprobe
K17-449	708.5	0.02	MAG	MPPprobe
K17-449	709	0	MAG	MPPprobe
K17-449	709.5	0.19	MAG	MPPprobe
K17-449	710	0.47	MAG	MPPprobe
K17-449	710.5	0.68	MAG	MPPprobe
K17-449	711	0.49	MAG	MPPprobe
K17-449	711.5	0.54	MAG	MPPprobe
K17-449	712	1.67	MAG	MPPprobe
K17-449	712.5	0.14	MAG	MPPprobe
K17-449	713	0	MAG	MPPprobe
K17-449	713.5	0.7	MAG	MPPprobe
K17-449	714	0.66	MAG	MPPprobe
K17-449	714.5	0.68	MAG	MPPprobe
K17-449	715	0.47	MAG	MPPprobe
K17-449	715.5	0.1	MAG	MPPprobe
K17-449	716	0.12	MAG	MPPprobe
K17-449	716.5	0.02	MAG	MPPprobe
K17-449	717	0.41	MAG	MPPprobe
K17-449	717.5	4.19	MAG	MPPprobe
K17-449	718	0.29	MAG	MPPprobe
K17-449	718.5	0.58	MAG	MPPprobe
K17-449	719	0.52	MAG	MPPprobe
K17-449	719.5	0.21	MAG	MPPprobe
K17-449	720	2.97	MAG	MPPprobe
K17-449	720.5	1.81	MAG	MPPprobe
K17-449	721	0.56	MAG	MPPprobe
K17-449	721.5	0.91	MAG	MPPprobe
K17-449	722	0.89	MAG	MPPprobe
K17-449	722.5	0.16	MAG	MPPprobe
K17-449	723	0.54	MAG	MPPprobe
K17-449	723.5	0	MAG	MPPprobe
K17-449	724	0.21	MAG	MPPprobe
K17-449	724.5	0.54	MAG	MPPprobe
K17-449	725	0	MAG	MPPprobe
K17-449	725.5	0.06	MAG	MPPprobe
K17-449	726	0	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	726.5	0.31	MAG	MPPprobe
K17-449	727	0.04	MAG	MPPprobe
K17-449	727.5	0	MAG	MPPprobe
K17-449	728	0.8	MAG	MPPprobe
K17-449	728.5	0.54	MAG	MPPprobe
K17-449	729	0.14	MAG	MPPprobe
K17-449	729.5	0.19	MAG	MPPprobe
K17-449	730	0.04	MAG	MPPprobe
K17-449	730.5	0.16	MAG	MPPprobe
K17-449	731	0.12	MAG	MPPprobe
K17-449	731.5	1.05	MAG	MPPprobe
K17-449	732	2.25	MAG	MPPprobe
K17-449	732.5	0.37	MAG	MPPprobe
K17-449	733	0.06	MAG	MPPprobe
K17-449	733.5	0.41	MAG	MPPprobe
K17-449	734	0.25	MAG	MPPprobe
K17-449	734.5	0.45	MAG	MPPprobe
K17-449	735	9.61	MAG	MPPprobe
K17-449	735.5	0.93	MAG	MPPprobe
K17-449	736	0.25	MAG	MPPprobe
K17-449	736.5	0.7	MAG	MPPprobe
K17-449	737	3.07	MAG	MPPprobe
K17-449	737.5	0.91	MAG	MPPprobe
K17-449	738	0.35	MAG	MPPprobe
K17-449	738.5	0.1	MAG	MPPprobe
K17-449	739	0.19	MAG	MPPprobe
K17-449	739.5	0.35	MAG	MPPprobe
K17-449	740	0.27	MAG	MPPprobe
K17-449	740.5	0.14	MAG	MPPprobe
K17-449	741	0.39	MAG	MPPprobe
K17-449	741.5	0.64	MAG	MPPprobe
K17-449	742	0.29	MAG	MPPprobe
K17-449	742.5	0.19	MAG	MPPprobe
K17-449	743	0.12	MAG	MPPprobe
K17-449	743.5	2.62	MAG	MPPprobe
K17-449	744	0.52	MAG	MPPprobe
K17-449	744.5	0.1	MAG	MPPprobe
K17-449	745	0.21	MAG	MPPprobe
K17-449	745.5	0.04	MAG	MPPprobe
K17-449	746	0	MAG	MPPprobe
K17-449	746.5	0.14	MAG	MPPprobe
K17-449	747	0	MAG	MPPprobe
K17-449	747.5	0.25	MAG	MPPprobe
K17-449	748	0.35	MAG	MPPprobe
K17-449	748.5	0.23	MAG	MPPprobe
K17-449	749	0.19	MAG	MPPprobe
K17-449	749.5	0.49	MAG	MPPprobe
K17-449	750	0.19	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	750.5	0.39	MAG	MPPprobe
K17-449	751	0.49	MAG	MPPprobe
K17-449	751.5	2.06	MAG	MPPprobe
K17-449	752	1.51	MAG	MPPprobe
K17-449	752.5	1.53	MAG	MPPprobe
K17-449	753	5.2	MAG	MPPprobe
K17-449	753.5	11.3	MAG	MPPprobe
K17-449	754	0.68	MAG	MPPprobe
K17-449	754.5	2.68	MAG	MPPprobe
K17-449	755	3.4	MAG	MPPprobe
K17-449	755.5	3.92	MAG	MPPprobe
K17-449	756	0.56	MAG	MPPprobe
K17-449	756.5	5.2	MAG	MPPprobe
K17-449	757	0.49	MAG	MPPprobe
K17-449	757.5	2.33	MAG	MPPprobe
K17-449	758	0.31	MAG	MPPprobe
K17-449	758.5	0.72	MAG	MPPprobe
K17-449	759	0.39	MAG	MPPprobe
K17-449	759.5	0.93	MAG	MPPprobe
K17-449	760	3.18	MAG	MPPprobe
K17-449	760.5	0.6	MAG	MPPprobe
K17-449	761	0.64	MAG	MPPprobe
K17-449	761.5	1.01	MAG	MPPprobe
K17-449	762	0.66	MAG	MPPprobe
K17-449	762.5	1.01	MAG	MPPprobe
K17-449	763	0.45	MAG	MPPprobe
K17-449	763.5	7.77	MAG	MPPprobe
K17-449	764	6.91	MAG	MPPprobe
K17-449	764.5	0.21	MAG	MPPprobe
K17-449	765	0.14	MAG	MPPprobe
K17-449	765.5	0.72	MAG	MPPprobe
K17-449	766	0.66	MAG	MPPprobe
K17-449	766.5	0.29	MAG	MPPprobe
K17-449	767	0.43	MAG	MPPprobe
K17-449	767.5	0.8	MAG	MPPprobe
K17-449	768	5.36	MAG	MPPprobe
K17-449	768.5	0.08	MAG	MPPprobe
K17-449	769	0.35	MAG	MPPprobe
K17-449	769.5	0.37	MAG	MPPprobe
K17-449	770	0.93	MAG	MPPprobe
K17-449	770.5	1.61	MAG	MPPprobe
K17-449	771	0.8	MAG	MPPprobe
K17-449	771.5	0.74	MAG	MPPprobe
K17-449	772	1.15	MAG	MPPprobe
K17-449	772.5	2.08	MAG	MPPprobe
K17-449	773	1.2	MAG	MPPprobe
K17-449	773.5	4.85	MAG	MPPprobe
K17-449	774	1.63	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	774.5	4.25	MAG	MPPprobe
K17-449	775	5.09	MAG	MPPprobe
K17-449	775.5	0.52	MAG	MPPprobe
K17-449	776	4.33	MAG	MPPprobe
K17-449	776.5	6.62	MAG	MPPprobe
K17-449	777	2.85	MAG	MPPprobe
K17-449	777.5	3.32	MAG	MPPprobe
K17-449	778	0.66	MAG	MPPprobe
K17-449	778.5	7.75	MAG	MPPprobe
K17-449	779	0.14	MAG	MPPprobe
K17-449	779.5	0.14	MAG	MPPprobe
K17-449	780	20.8	MAG	MPPprobe
K17-449	780.5	11.6	MAG	MPPprobe
K17-449	781	21.4	MAG	MPPprobe
K17-449	781.5	17.9	MAG	MPPprobe
K17-449	782	0.68	MAG	MPPprobe
K17-449	782.5	1.67	MAG	MPPprobe
K17-449	783	0	MAG	MPPprobe
K17-449	783.5	0.58	MAG	MPPprobe
K17-449	784	6.45	MAG	MPPprobe
K17-449	784.5	0.7	MAG	MPPprobe
K17-449	785	0.62	MAG	MPPprobe
K17-449	785.5	1.09	MAG	MPPprobe
K17-449	786	1.3	MAG	MPPprobe
K17-449	786.5	0.19	MAG	MPPprobe
K17-449	787	0.95	MAG	MPPprobe
K17-449	787.5	1.32	MAG	MPPprobe
K17-449	788	0.56	MAG	MPPprobe
K17-449	788.5	0.72	MAG	MPPprobe
K17-449	789	0.54	MAG	MPPprobe
K17-449	789.5	1.36	MAG	MPPprobe
K17-449	790	1.03	MAG	MPPprobe
K17-449	790.5	0.27	MAG	MPPprobe
K17-449	791	16.6	MAG	MPPprobe
K17-449	791.5	2.08	MAG	MPPprobe
K17-449	792	0.78	MAG	MPPprobe
K17-449	792.5	0.64	MAG	MPPprobe
K17-449	793	0.99	MAG	MPPprobe
K17-449	793.5	0.8	MAG	MPPprobe
K17-449	794	2.1	MAG	MPPprobe
K17-449	794.5	4.12	MAG	MPPprobe
K17-449	795	1.03	MAG	MPPprobe
K17-449	795.5	7.94	MAG	MPPprobe
K17-449	796	1.11	MAG	MPPprobe
K17-449	796.5	1.15	MAG	MPPprobe
K17-449	797	4.85	MAG	MPPprobe
K17-449	797.5	14.3	MAG	MPPprobe
K17-449	798	28.7	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-449	798.5	16.2	MAG	MPPprobe
K17-449	799	2.33	MAG	MPPprobe
K17-449	799.5	8.95	MAG	MPPprobe
K17-449	800	1.01	MAG	MPPprobe
K17-450	0.5	0.12	MAG	MPPprobe
K17-450	1	0.1	MAG	MPPprobe
K17-450	1.5	0.16	MAG	MPPprobe
K17-450	2	2.52	MAG	MPPprobe
K17-450	2.5	3.59	MAG	MPPprobe
K17-450	3	2.68	MAG	MPPprobe
K17-450	3.5	2.6	MAG	MPPprobe
K17-450	4	1.55	MAG	MPPprobe
K17-450	4.5	1.4	MAG	MPPprobe
K17-450	5	0.66	MAG	MPPprobe
K17-450	5.5	0.89	MAG	MPPprobe
K17-450	6	1.51	MAG	MPPprobe
K17-450	6.5	0.43	MAG	MPPprobe
K17-450	7	0.76	MAG	MPPprobe
K17-450	7.5	0.58	MAG	MPPprobe
K17-450	8	1.34	MAG	MPPprobe
K17-450	8.5	0.8	MAG	MPPprobe
K17-450	9	0.62	MAG	MPPprobe
K17-450	9.5	1.3	MAG	MPPprobe
K17-450	10	3.03	MAG	MPPprobe
K17-450	10.5	0.95	MAG	MPPprobe
K17-450	11	2.21	MAG	MPPprobe
K17-450	11.5	1.84	MAG	MPPprobe
K17-450	12	2.35	MAG	MPPprobe
K17-450	12.5	3.13	MAG	MPPprobe
K17-450	13	3.11	MAG	MPPprobe
K17-450	13.5	3.69	MAG	MPPprobe
K17-450	14	6.7	MAG	MPPprobe
K17-450	14.5	1.69	MAG	MPPprobe
K17-450	15	1.88	MAG	MPPprobe
K17-450	15.5	2.83	MAG	MPPprobe
K17-450	16	3.2	MAG	MPPprobe
K17-450	16.5	3.53	MAG	MPPprobe
K17-450	17	2.8	MAG	MPPprobe
K17-450	17.5	4.02	MAG	MPPprobe
K17-450	18	4.33	MAG	MPPprobe
K17-450	18.5	1.98	MAG	MPPprobe
K17-450	19	2.27	MAG	MPPprobe
K17-450	19.5	2.21	MAG	MPPprobe
K17-450	20	3.79	MAG	MPPprobe
K17-450	20.5	7.63	MAG	MPPprobe
K17-450	21	1.65	MAG	MPPprobe
K17-450	21.5	1.2	MAG	MPPprobe
K17-450	22	0.6	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-450	22.5	0.6	MAG	MPPprobe
K17-450	23	0.78	MAG	MPPprobe
K17-450	23.5	1.09	MAG	MPPprobe
K17-450	24	1.13	MAG	MPPprobe
K17-450	24.5	1.55	MAG	MPPprobe
K17-450	25	5.92	MAG	MPPprobe
K17-450	25.5	3.75	MAG	MPPprobe
K17-450	26	2.95	MAG	MPPprobe
K17-450	26.5	2.5	MAG	MPPprobe
K17-450	27	8.58	MAG	MPPprobe
K17-450	27.5	1.96	MAG	MPPprobe
K17-450	28	2.41	MAG	MPPprobe
K17-450	28.5	2.04	MAG	MPPprobe
K17-450	29	2.27	MAG	MPPprobe
K17-450	29.5	2.72	MAG	MPPprobe
K17-450	30	0.47	MAG	MPPprobe
K17-450	30.5	4.41	MAG	MPPprobe
K17-450	31	1.28	MAG	MPPprobe
K17-450	31.5	1.46	MAG	MPPprobe
K17-450	32	1.51	MAG	MPPprobe
K17-450	32.5	1.46	MAG	MPPprobe
K17-450	33	1.84	MAG	MPPprobe
K17-450	33.5	1.59	MAG	MPPprobe
K17-450	34	1.92	MAG	MPPprobe
K17-450	34.5	1.75	MAG	MPPprobe
K17-450	35	1.92	MAG	MPPprobe
K17-450	35.5	2.25	MAG	MPPprobe
K17-450	36	2.48	MAG	MPPprobe
K17-450	36.5	2.81	MAG	MPPprobe
K17-450	37	3.61	MAG	MPPprobe
K17-450	37.5	0.25	MAG	MPPprobe
K17-450	38	2.81	MAG	MPPprobe
K17-450	38.5	2.85	MAG	MPPprobe
K17-450	39	2.83	MAG	MPPprobe
K17-450	39.5	1.16	MAG	MPPprobe
K17-450	40	1.09	MAG	MPPprobe
K17-450	40.5	2.15	MAG	MPPprobe
K17-450	41	1.71	MAG	MPPprobe
K17-450	41.5	1.96	MAG	MPPprobe
K17-450	42	2.37	MAG	MPPprobe
K17-450	42.5	2.97	MAG	MPPprobe
K17-450	43	2.43	MAG	MPPprobe
K17-450	43.5	2.66	MAG	MPPprobe
K17-450	44	2.66	MAG	MPPprobe
K17-450	44.5	2.81	MAG	MPPprobe
K17-450	45	3.92	MAG	MPPprobe
K17-450	45.5	2.97	MAG	MPPprobe
K17-450	46	1.13	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-450	46.5	0.66	MAG	MPPprobe
K17-450	47	2.04	MAG	MPPprobe
K17-450	47.5	1.28	MAG	MPPprobe
K17-450	48	1.63	MAG	MPPprobe
K17-450	48.5	2.87	MAG	MPPprobe
K17-450	49	1.94	MAG	MPPprobe
K17-450	49.5	1.57	MAG	MPPprobe
K17-450	50	1.88	MAG	MPPprobe
K17-450	50.5	2.27	MAG	MPPprobe
K17-450	51	1.53	MAG	MPPprobe
K17-450	51.5	3.76	MAG	MPPprobe
K17-450	52	3.16	MAG	MPPprobe
K17-450	52.5	4.21	MAG	MPPprobe
K17-450	53	3.43	MAG	MPPprobe
K17-450	53.5	2.72	MAG	MPPprobe
K17-450	54	3.36	MAG	MPPprobe
K17-450	54.5	3.03	MAG	MPPprobe
K17-450	55	16.9	MAG	MPPprobe
K17-450	55.5	1.82	MAG	MPPprobe
K17-450	56	5.18	MAG	MPPprobe
K17-450	56.5	0.47	MAG	MPPprobe
K17-450	57	1.73	MAG	MPPprobe
K17-450	57.5	1.2	MAG	MPPprobe
K17-450	58	5.18	MAG	MPPprobe
K17-450	58.5	2.35	MAG	MPPprobe
K17-450	59	4.04	MAG	MPPprobe
K17-450	59.5	3.71	MAG	MPPprobe
K17-450	60	2.27	MAG	MPPprobe
K17-450	60.5	1.2	MAG	MPPprobe
K17-450	61	1.47	MAG	MPPprobe
K17-450	61.5	1.88	MAG	MPPprobe
K17-450	62	5.84	MAG	MPPprobe
K17-450	62.5	2.64	MAG	MPPprobe
K17-450	63	21.5	MAG	MPPprobe
K17-450	63.5	2.06	MAG	MPPprobe
K17-450	64	2.99	MAG	MPPprobe
K17-450	64.5	5.28	MAG	MPPprobe
K17-450	65	3.76	MAG	MPPprobe
K17-450	65.5	1.71	MAG	MPPprobe
K17-450	66	1.8	MAG	MPPprobe
K17-450	66.5	1.9	MAG	MPPprobe
K17-450	67	4.27	MAG	MPPprobe
K17-450	67.5	3.49	MAG	MPPprobe
K17-450	68	2.17	MAG	MPPprobe
K17-450	68.5	3.53	MAG	MPPprobe
K17-450	69	0.76	MAG	MPPprobe
K17-450	69.5	3.92	MAG	MPPprobe
K17-450	70	2.54	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-450	70.5	1.16	MAG	MPPprobe
K17-450	71	0.95	MAG	MPPprobe
K17-450	71.5	2.04	MAG	MPPprobe
K17-450	72	2.37	MAG	MPPprobe
K17-450	72.5	2.19	MAG	MPPprobe
K17-450	73	2.04	MAG	MPPprobe
K17-450	73.5	1.86	MAG	MPPprobe
K17-450	74	3.98	MAG	MPPprobe
K17-450	74.5	1.61	MAG	MPPprobe
K17-450	75	2.87	MAG	MPPprobe
K17-450	75.5	6.6	MAG	MPPprobe
K17-450	76	2.15	MAG	MPPprobe
K17-450	76.5	6.69	MAG	MPPprobe
K17-450	77	2.15	MAG	MPPprobe
K17-450	77.5	4.77	MAG	MPPprobe
K17-450	78	8.94	MAG	MPPprobe
K17-450	78.5	3.72	MAG	MPPprobe
K17-450	79	8.07	MAG	MPPprobe
K17-450	79.5	3.24	MAG	MPPprobe
K17-450	80	10.5	MAG	MPPprobe
K17-450	80.5	6.71	MAG	MPPprobe
K17-450	81	4.5	MAG	MPPprobe
K17-450	81.5	5.88	MAG	MPPprobe
K17-450	82	4.89	MAG	MPPprobe
K17-450	82.5	3.82	MAG	MPPprobe
K17-450	83	4.19	MAG	MPPprobe
K17-450	83.5	4.36	MAG	MPPprobe
K17-450	84	4.6	MAG	MPPprobe
K17-450	84.5	2.39	MAG	MPPprobe
K17-450	85	5.14	MAG	MPPprobe
K17-450	85.5	6.79	MAG	MPPprobe
K17-450	86	2.75	MAG	MPPprobe
K17-450	86.5	5.33	MAG	MPPprobe
K17-450	87	2.75	MAG	MPPprobe
K17-450	87.5	7.82	MAG	MPPprobe
K17-450	88	1.9	MAG	MPPprobe
K17-450	88.5	3.2	MAG	MPPprobe
K17-450	89	3.16	MAG	MPPprobe
K17-450	89.5	3.03	MAG	MPPprobe
K17-450	90	5.04	MAG	MPPprobe
K17-450	90.5	8.48	MAG	MPPprobe
K17-450	91	11.8	MAG	MPPprobe
K17-450	91.5	8.4	MAG	MPPprobe
K17-450	92	1.01	MAG	MPPprobe
K17-450	92.5	1.57	MAG	MPPprobe
K17-450	93	2.23	MAG	MPPprobe
K17-450	93.5	0.6	MAG	MPPprobe
K17-450	94	0.95	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-450	94.5	0.97	MAG	MPPprobe
K17-450	95	1.01	MAG	MPPprobe
K17-450	95.5	1.18	MAG	MPPprobe
K17-450	96	2.75	MAG	MPPprobe
K17-450	96.5	3.28	MAG	MPPprobe
K17-450	97	1.8	MAG	MPPprobe
K17-450	97.5	2.5	MAG	MPPprobe
K17-450	98	5.68	MAG	MPPprobe
K17-450	98.5	9.33	MAG	MPPprobe
K17-450	99	2.13	MAG	MPPprobe
K17-450	99.5	7.91	MAG	MPPprobe
K17-450	100	4.5	MAG	MPPprobe
K17-450	100.5	11	MAG	MPPprobe
K17-450	101	8.51	MAG	MPPprobe
K17-450	101.5	6.5	MAG	MPPprobe
K17-450	102	8.11	MAG	MPPprobe
K17-450	102.5	1.96	MAG	MPPprobe
K17-450	103	1.57	MAG	MPPprobe
K17-450	103.5	1.14	MAG	MPPprobe
K17-450	104	0.68	MAG	MPPprobe
K17-450	104.5	2.48	MAG	MPPprobe
K17-450	105	4.07	MAG	MPPprobe
K17-450	105.5	4.79	MAG	MPPprobe
K17-450	106	5.95	MAG	MPPprobe
K17-450	106.5	12.5	MAG	MPPprobe
K17-450	107	6.9	MAG	MPPprobe
K17-450	107.5	3.82	MAG	MPPprobe
K17-450	108	2.11	MAG	MPPprobe
K17-450	108.5	0.93	MAG	MPPprobe
K17-450	109	7.08	MAG	MPPprobe
K17-450	109.5	5.33	MAG	MPPprobe
K17-450	110	2.35	MAG	MPPprobe
K17-450	110.5	2.58	MAG	MPPprobe
K17-450	111	1.55	MAG	MPPprobe
K17-450	111.5	0.21	MAG	MPPprobe
K17-450	112	1.57	MAG	MPPprobe
K17-450	112.5	2.31	MAG	MPPprobe
K17-450	113	5.86	MAG	MPPprobe
K17-450	113.5	4.6	MAG	MPPprobe
K17-450	114	2.21	MAG	MPPprobe
K17-450	114.5	1.71	MAG	MPPprobe
K17-450	115	3.01	MAG	MPPprobe
K17-450	115.5	4.46	MAG	MPPprobe
K17-450	116	11.3	MAG	MPPprobe
K17-450	116.5	2.77	MAG	MPPprobe
K17-450	117	0.83	MAG	MPPprobe
K17-450	117.5	1.18	MAG	MPPprobe
K17-450	118	1.55	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-450	118.5	1.63	MAG	MPPprobe
K17-450	119	8.05	MAG	MPPprobe
K17-450	119.5	3.34	MAG	MPPprobe
K17-450	120	5.27	MAG	MPPprobe
K17-450	120.5	7.12	MAG	MPPprobe
K17-450	121	6.65	MAG	MPPprobe
K17-450	121.5	7.25	MAG	MPPprobe
K17-450	122	2.64	MAG	MPPprobe
K17-450	122.5	6.04	MAG	MPPprobe
K17-450	123	0.76	MAG	MPPprobe
K17-450	123.5	3.96	MAG	MPPprobe
K17-450	124	0.43	MAG	MPPprobe
K17-450	124.5	0.45	MAG	MPPprobe
K17-450	125	0.85	MAG	MPPprobe
K17-450	125.5	1.07	MAG	MPPprobe
K17-450	126	1.11	MAG	MPPprobe
K17-450	126.5	3.28	MAG	MPPprobe
K17-450	127	1.84	MAG	MPPprobe
K17-450	127.5	6.06	MAG	MPPprobe
K17-450	128	1.46	MAG	MPPprobe
K17-450	128.5	2.47	MAG	MPPprobe
K17-450	129	4.27	MAG	MPPprobe
K17-450	129.5	1.26	MAG	MPPprobe
K17-450	130	0.49	MAG	MPPprobe
K17-450	130.5	1.01	MAG	MPPprobe
K17-450	131	0.47	MAG	MPPprobe
K17-450	131.5	0.41	MAG	MPPprobe
K17-450	132	0.47	MAG	MPPprobe
K17-450	132.5	2.17	MAG	MPPprobe
K17-450	133	0	MAG	MPPprobe
K17-450	133.5	0.87	MAG	MPPprobe
K17-450	134	0.99	MAG	MPPprobe
K17-450	134.5	1.18	MAG	MPPprobe
K17-450	135	1.57	MAG	MPPprobe
K17-450	135.5	0.99	MAG	MPPprobe
K17-450	136	0.08	MAG	MPPprobe
K17-450	136.5	0.29	MAG	MPPprobe
K17-450	137	0.89	MAG	MPPprobe
K17-450	137.5	0.87	MAG	MPPprobe
K17-450	138	1.67	MAG	MPPprobe
K17-450	138.5	0.52	MAG	MPPprobe
K17-450	139	0.91	MAG	MPPprobe
K17-450	139.5	0.78	MAG	MPPprobe
K17-450	140	0.62	MAG	MPPprobe
K17-450	140.5	1.2	MAG	MPPprobe
K17-450	141	2.08	MAG	MPPprobe
K17-450	141.5	3.13	MAG	MPPprobe
K17-450	142	1.75	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-450	142.5	0.74	MAG	MPPprobe
K17-450	143	0.39	MAG	MPPprobe
K17-450	143.5	0.68	MAG	MPPprobe
K17-450	144	0.62	MAG	MPPprobe
K17-450	144.5	1.24	MAG	MPPprobe
K17-450	145	5.03	MAG	MPPprobe
K17-450	145.5	15.7	MAG	MPPprobe
K17-450	146	3.4	MAG	MPPprobe
K17-450	146.5	4	MAG	MPPprobe
K17-450	147	5.34	MAG	MPPprobe
K17-450	147.5	23.7	MAG	MPPprobe
K17-450	148	9.77	MAG	MPPprobe
K17-450	148.5	140	MAG	MPPprobe
K17-450	149	3.09	MAG	MPPprobe
K17-450	149.5	3.13	MAG	MPPprobe
K17-450	150	12.1	MAG	MPPprobe
K17-450	150.5	12.5	MAG	MPPprobe
K17-450	151	4.6	MAG	MPPprobe
K17-450	151.5	2.83	MAG	MPPprobe
K17-450	152	5.24	MAG	MPPprobe
K17-450	152.5	6.39	MAG	MPPprobe
K17-450	153	0.49	MAG	MPPprobe
K17-450	153.5	0.47	MAG	MPPprobe
K17-450	154	0.41	MAG	MPPprobe
K17-450	154.5	0.64	MAG	MPPprobe
K17-450	155	0.58	MAG	MPPprobe
K17-450	155.5	0.89	MAG	MPPprobe
K17-450	156	0.91	MAG	MPPprobe
K17-450	156.5	0.64	MAG	MPPprobe
K17-450	157	173	MAG	MPPprobe
K17-450	157.5	159	MAG	MPPprobe
K17-450	158	175	MAG	MPPprobe
K17-450	158.5	0.58	MAG	MPPprobe
K17-450	159	0.52	MAG	MPPprobe
K17-450	159.5	0.72	MAG	MPPprobe
K17-450	160	0.66	MAG	MPPprobe
K17-450	160.5	0.93	MAG	MPPprobe
K17-450	161	0.62	MAG	MPPprobe
K17-450	161.5	0.76	MAG	MPPprobe
K17-450	162	0.76	MAG	MPPprobe
K17-450	162.5	1.34	MAG	MPPprobe
K17-450	163	115	MAG	MPPprobe
K17-450	163.5	222	MAG	MPPprobe
K17-450	164	284	MAG	MPPprobe
K17-450	164.5	411	MAG	MPPprobe
K17-450	165	0.29	MAG	MPPprobe
K17-450	165.5	0.72	MAG	MPPprobe
K17-450	166	0.47	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-450	166.5	11.8	MAG	MPPprobe
K17-450	167	0.97	MAG	MPPprobe
K17-450	167.5	0.8	MAG	MPPprobe
K17-450	168	3.13	MAG	MPPprobe
K17-450	168.5	1.05	MAG	MPPprobe
K17-450	169	0.82	MAG	MPPprobe
K17-450	169.5	0.93	MAG	MPPprobe
K17-450	170	0.99	MAG	MPPprobe
K17-450	170.5	1.05	MAG	MPPprobe
K17-450	171	0.99	MAG	MPPprobe
K17-450	171.5	1.67	MAG	MPPprobe
K17-450	172	1.53	MAG	MPPprobe
K17-450	172.5	0.54	MAG	MPPprobe
K17-450	173	0.52	MAG	MPPprobe
K17-450	173.5	0.64	MAG	MPPprobe
K17-450	174	0.19	MAG	MPPprobe
K17-450	174.5	2.83	MAG	MPPprobe
K17-450	175	0.23	MAG	MPPprobe
K17-450	175.5	1.92	MAG	MPPprobe
K17-450	176	0.85	MAG	MPPprobe
K17-450	176.5	0.99	MAG	MPPprobe
K17-450	177	0.99	MAG	MPPprobe
K17-450	177.5	0.93	MAG	MPPprobe
K17-450	178	1.13	MAG	MPPprobe
K17-450	178.5	1.79	MAG	MPPprobe
K17-450	179	1.13	MAG	MPPprobe
K17-450	179.5	0.99	MAG	MPPprobe
K17-450	180	1.11	MAG	MPPprobe
K17-450	180.5	1.22	MAG	MPPprobe
K17-450	181	1.13	MAG	MPPprobe
K17-450	181.5	1.88	MAG	MPPprobe
K17-451	7	0.68	MAG	MPPprobe
K17-451	7.5	0.31	MAG	MPPprobe
K17-451	8	0.91	MAG	MPPprobe
K17-451	8.5	2.23	MAG	MPPprobe
K17-451	9	1.03	MAG	MPPprobe
K17-451	9.5	1.38	MAG	MPPprobe
K17-451	10	0.33	MAG	MPPprobe
K17-451	10.5	2.21	MAG	MPPprobe
K17-451	11	0.35	MAG	MPPprobe
K17-452	6.5	0.5	MAG	MPPprobe
K17-452	7	1.61	MAG	MPPprobe
K17-452	7.5	0.14	MAG	MPPprobe
K17-452	8	0.33	MAG	MPPprobe
K17-452	8.5	0	MAG	MPPprobe
K17-452	9	0.21	MAG	MPPprobe
K17-452	9.5	0.1	MAG	MPPprobe
K17-452	10	0.31	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-452	10.5	0.25	MAG	MPPprobe
K17-452	11	0.08	MAG	MPPprobe
K17-452	11.5	0.33	MAG	MPPprobe
K17-452	12	0.66	MAG	MPPprobe
K17-452	12.5	0.43	MAG	MPPprobe
K17-452	13	0	MAG	MPPprobe
K17-452	13.5	0.74	MAG	MPPprobe
K17-452	14	0.14	MAG	MPPprobe
K17-452	14.5	0.29	MAG	MPPprobe
K17-452	15	0	MAG	MPPprobe
K17-452	15.5	0	MAG	MPPprobe
K17-452	16	2.29	MAG	MPPprobe
K17-452	16.5	0.1	MAG	MPPprobe
K17-452	17	0.33	MAG	MPPprobe
K17-452	17.5	1.84	MAG	MPPprobe
K17-452	18	1.49	MAG	MPPprobe
K17-452	18.5	1.53	MAG	MPPprobe
K17-452	19	3.31	MAG	MPPprobe
K17-452	19.5	1.45	MAG	MPPprobe
K17-452	20	2.48	MAG	MPPprobe
K17-452	20.5	0.85	MAG	MPPprobe
K17-452	21	0.95	MAG	MPPprobe
K17-452	21.5	0.87	MAG	MPPprobe
K17-452	22	0.7	MAG	MPPprobe
K17-452	22.5	1.92	MAG	MPPprobe
K17-452	23	1.84	MAG	MPPprobe
K17-452	23.5	1.28	MAG	MPPprobe
K17-452	24	0.62	MAG	MPPprobe
K17-452	24.5	4.07	MAG	MPPprobe
K17-452	25	0.76	MAG	MPPprobe
K17-452	25.5	0	MAG	MPPprobe
K17-452	26	0.41	MAG	MPPprobe
K17-452	26.5	0.41	MAG	MPPprobe
K17-452	27	0.17	MAG	MPPprobe
K17-452	27.5	1.3	MAG	MPPprobe
K17-452	28	1.63	MAG	MPPprobe
K17-452	28.5	3.14	MAG	MPPprobe
K17-452	29	0.66	MAG	MPPprobe
K17-452	29.5	0.5	MAG	MPPprobe
K17-452	30	2.27	MAG	MPPprobe
K17-452	30.5	3.02	MAG	MPPprobe
K17-452	31	5.8	MAG	MPPprobe
K17-452	31.5	3.24	MAG	MPPprobe
K17-452	32	3.47	MAG	MPPprobe
K17-452	32.5	0.7	MAG	MPPprobe
K17-452	33	0.19	MAG	MPPprobe
K17-452	33.5	0.29	MAG	MPPprobe
K17-452	34	0.29	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-452	34.5	0	MAG	MPPprobe
K17-452	35	1.61	MAG	MPPprobe
K17-452	35.5	0.56	MAG	MPPprobe
K17-452	36	0.04	MAG	MPPprobe
K17-452	36.5	4.69	MAG	MPPprobe
K17-452	37	1.14	MAG	MPPprobe
K17-452	37.5	1.26	MAG	MPPprobe
K17-452	38	0.91	MAG	MPPprobe
K17-452	38.5	0.91	MAG	MPPprobe
K17-452	39	0.39	MAG	MPPprobe
K17-452	39.5	0.08	MAG	MPPprobe
K17-452	40	0.56	MAG	MPPprobe
K17-452	40.5	0	MAG	MPPprobe
K17-453	2.5	3.14	MAG	MPPprobe
K17-453	3	0.89	MAG	MPPprobe
K17-453	3.5	2.02	MAG	MPPprobe
K17-453	4	0.6	MAG	MPPprobe
K17-453	4.5	0.39	MAG	MPPprobe
K17-453	5	0.29	MAG	MPPprobe
K17-453	5.5	0.81	MAG	MPPprobe
K17-453	6	1.05	MAG	MPPprobe
K17-453	6.5	1.76	MAG	MPPprobe
K17-453	7	0.72	MAG	MPPprobe
K17-453	7.5	0	MAG	MPPprobe
K17-453	8	0.21	MAG	MPPprobe
K17-453	8.5	1.4	MAG	MPPprobe
K17-453	9	1.07	MAG	MPPprobe
K17-453	9.5	0	MAG	MPPprobe
K17-453	10	1.57	MAG	MPPprobe
K17-453	10.5	1.57	MAG	MPPprobe
K17-453	11	3.12	MAG	MPPprobe
K17-454	5.5	1.09	MAG	MPPprobe
K17-454	6	0.12	MAG	MPPprobe
K17-454	6.5	0	MAG	MPPprobe
K17-454	7	0.02	MAG	MPPprobe
K17-454	7.5	0.6	MAG	MPPprobe
K17-454	8	0.35	MAG	MPPprobe
K17-454	8.5	0	MAG	MPPprobe
K17-454	9	0.17	MAG	MPPprobe
K17-454	9.5	0	MAG	MPPprobe
K17-454	10	0.29	MAG	MPPprobe
K17-454	10.5	0	MAG	MPPprobe
K17-454	11	0	MAG	MPPprobe
K17-455	4	0.43	MAG	MPPprobe
K17-455	4.5	0.7	MAG	MPPprobe
K17-455	5	0.47	MAG	MPPprobe
K17-455	5.5	0.37	MAG	MPPprobe
K17-455	6	0.31	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-455	6.5	0.35	MAG	MPPprobe
K17-455	7	0.76	MAG	MPPprobe
K17-455	7.5	0.45	MAG	MPPprobe
K17-455	8	0.04	MAG	MPPprobe
K17-455	8.5	0.45	MAG	MPPprobe
K17-455	9	0.31	MAG	MPPprobe
K17-455	9.5	1.01	MAG	MPPprobe
K17-455	10	0.85	MAG	MPPprobe
K17-455	10.5	0.72	MAG	MPPprobe
K17-455	11	0.37	MAG	MPPprobe
K17-455	11.5	0.91	MAG	MPPprobe
K17-455	12	0.78	MAG	MPPprobe
K17-455	12.5	0.87	MAG	MPPprobe
K17-456	4	0.47	MAG	MPPprobe
K17-456	4.5	0.33	MAG	MPPprobe
K17-456	5	3.24	MAG	MPPprobe
K17-456	5.5	0.43	MAG	MPPprobe
K17-456	6	4.79	MAG	MPPprobe
K17-456	6.5	0.41	MAG	MPPprobe
K17-456	7	1.16	MAG	MPPprobe
K17-456	7.5	1.53	MAG	MPPprobe
K17-456	8	6.09	MAG	MPPprobe
K17-456	8.5	3.47	MAG	MPPprobe
K17-456	9	3.65	MAG	MPPprobe
K17-456	9.5	3.03	MAG	MPPprobe
K17-456	10	3.03	MAG	MPPprobe
K17-456	10.5	1.3	MAG	MPPprobe
K17-456	11	4.62	MAG	MPPprobe
K17-457	5.5	0.5	MAG	MPPprobe
K17-457	6	16.2	MAG	MPPprobe
K17-457	6.5	2.85	MAG	MPPprobe
K17-457	7	13.2	MAG	MPPprobe
K17-457	7.5	5.41	MAG	MPPprobe
K17-457	8	6.87	MAG	MPPprobe
K17-457	8.5	13.7	MAG	MPPprobe
K17-457	9	0.6	MAG	MPPprobe
K17-457	9.5	2.7	MAG	MPPprobe
K17-457	10	2.15	MAG	MPPprobe
K17-457	10.5	3.63	MAG	MPPprobe
K17-457	11	6.29	MAG	MPPprobe
K17-458	3	0.62	MAG	MPPprobe
K17-458	3.5	0.33	MAG	MPPprobe
K17-458	4	0.74	MAG	MPPprobe
K17-458	4.5	2.6	MAG	MPPprobe
K17-458	5	1.44	MAG	MPPprobe
K17-458	5.5	0.56	MAG	MPPprobe
K17-458	6	0.41	MAG	MPPprobe
K17-458	6.5	1.49	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-458	7	1.09	MAG	MPPprobe
K17-458	7.5	4.66	MAG	MPPprobe
K17-458	8	1.05	MAG	MPPprobe
K17-458	8.5	0.06	MAG	MPPprobe
K17-458	9	0.87	MAG	MPPprobe
K17-458	9.5	1.22	MAG	MPPprobe
K17-458	10	0.97	MAG	MPPprobe
K17-458	10.5	2.39	MAG	MPPprobe
K17-458	11	0.64	MAG	MPPprobe
K17-458	11.5	1.01	MAG	MPPprobe
K17-458	12	6.64	MAG	MPPprobe
K17-458	12.5	2.62	MAG	MPPprobe
K17-458	13	2.48	MAG	MPPprobe
K17-458	13.5	5.71	MAG	MPPprobe
K17-458	14	3.82	MAG	MPPprobe
K17-458	14.5	6.81	MAG	MPPprobe
K17-458	15	2.12	MAG	MPPprobe
K17-458	15.5	0.39	MAG	MPPprobe
K17-458	16	1.86	MAG	MPPprobe
K17-458	16.5	1.34	MAG	MPPprobe
K17-458	17	1.69	MAG	MPPprobe
K17-458	17.5	1.28	MAG	MPPprobe
K17-458	18	0.78	MAG	MPPprobe
K17-458	18.5	1.36	MAG	MPPprobe
K17-458	19	2.7	MAG	MPPprobe
K17-458	19.5	0.06	MAG	MPPprobe
K17-458	20	1.22	MAG	MPPprobe
K17-458	20.5	2.99	MAG	MPPprobe
K17-458	21	2.58	MAG	MPPprobe
K17-458	21.5	0.91	MAG	MPPprobe
K17-458	22	0.19	MAG	MPPprobe
K17-458	22.5	1.22	MAG	MPPprobe
K17-458	23	1.03	MAG	MPPprobe
K17-458	23.5	0.85	MAG	MPPprobe
K17-458	24	1.05	MAG	MPPprobe
K17-458	24.5	1.13	MAG	MPPprobe
K17-458	25	0.7	MAG	MPPprobe
K17-458	25.5	0.52	MAG	MPPprobe
K17-458	26	1.18	MAG	MPPprobe
K17-458	26.5	0.95	MAG	MPPprobe
K17-458	27	1.77	MAG	MPPprobe
K17-458	27.5	1.46	MAG	MPPprobe
K17-458	28	4.93	MAG	MPPprobe
K17-458	28.5	1.18	MAG	MPPprobe
K17-458	29	0.72	MAG	MPPprobe
K17-458	29.5	0.41	MAG	MPPprobe
K17-458	30	0.76	MAG	MPPprobe
K17-458	30.5	0.5	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-458	31	0.21	MAG	MPPprobe
K17-458	31.5	0.58	MAG	MPPprobe
K17-458	32	0.52	MAG	MPPprobe
K17-458	32.5	2.04	MAG	MPPprobe
K17-458	33	1.05	MAG	MPPprobe
K17-458	33.5	7.63	MAG	MPPprobe
K17-458	34	4.04	MAG	MPPprobe
K17-458	34.5	4.29	MAG	MPPprobe
K17-458	35	11.4	MAG	MPPprobe
K17-458	35.5	2.41	MAG	MPPprobe
K17-458	36	3.92	MAG	MPPprobe
K17-458	36.5	4.06	MAG	MPPprobe
K17-458	37	3.01	MAG	MPPprobe
K17-458	37.5	1.32	MAG	MPPprobe
K17-458	38	3.98	MAG	MPPprobe
K17-458	38.5	7.24	MAG	MPPprobe
K17-458	39	4.25	MAG	MPPprobe
K17-458	39.5	54.1	MAG	MPPprobe
K17-458	40	3.01	MAG	MPPprobe
K17-458	40.5	3.51	MAG	MPPprobe
K17-458	41	5.26	MAG	MPPprobe
K17-459	3	2.72	MAG	MPPprobe
K17-459	3.5	1.28	MAG	MPPprobe
K17-459	4	4.58	MAG	MPPprobe
K17-459	4.5	1.13	MAG	MPPprobe
K17-459	5	3.65	MAG	MPPprobe
K17-459	5.5	3.32	MAG	MPPprobe
K17-459	6	0.1	MAG	MPPprobe
K17-459	6.5	6.33	MAG	MPPprobe
K17-459	7	1.67	MAG	MPPprobe
K17-459	7.5	3.75	MAG	MPPprobe
K17-459	8	1.65	MAG	MPPprobe
K17-459	8.5	1.13	MAG	MPPprobe
K17-459	9	3.59	MAG	MPPprobe
K17-459	9.5	6.73	MAG	MPPprobe
K17-459	10	0.72	MAG	MPPprobe
K17-459	10.5	3.05	MAG	MPPprobe
K17-459	11	6.5	MAG	MPPprobe
K17-459	11.5	9.59	MAG	MPPprobe
K17-459	12	1.51	MAG	MPPprobe
K17-459	12.5	0.35	MAG	MPPprobe
K17-459	13	1.01	MAG	MPPprobe
K17-459	13.5	0	MAG	MPPprobe
K17-459	14	0	MAG	MPPprobe
K17-459	14.5	0	MAG	MPPprobe
K17-459	15	0.56	MAG	MPPprobe
K17-459	15.5	0	MAG	MPPprobe
K17-459	16	0.31	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-459	16.5	0.76	MAG	MPPprobe
K17-459	17	0	MAG	MPPprobe
K17-459	17.5	0.35	MAG	MPPprobe
K17-459	18	0	MAG	MPPprobe
K17-459	18.5	0	MAG	MPPprobe
K17-459	19	0	MAG	MPPprobe
K17-459	19.5	0.25	MAG	MPPprobe
K17-459	20	2.1	MAG	MPPprobe
K17-459	20.5	1.26	MAG	MPPprobe
K17-459	21	2.64	MAG	MPPprobe
K17-459	21.5	1.92	MAG	MPPprobe
K17-459	22	0.6	MAG	MPPprobe
K17-459	22.5	0.89	MAG	MPPprobe
K17-459	23	0	MAG	MPPprobe
K17-459	23.5	0.19	MAG	MPPprobe
K17-459	24	1.05	MAG	MPPprobe
K17-459	24.5	3.69	MAG	MPPprobe
K17-459	25	2.93	MAG	MPPprobe
K17-459	25.5	3.71	MAG	MPPprobe
K17-459	26	0.87	MAG	MPPprobe
K17-459	26.5	6.77	MAG	MPPprobe
K17-459	27	8.44	MAG	MPPprobe
K17-459	27.5	2.37	MAG	MPPprobe
K17-459	28	11.2	MAG	MPPprobe
K17-459	28.5	5.03	MAG	MPPprobe
K17-459	29	8.52	MAG	MPPprobe
K17-459	29.5	7.36	MAG	MPPprobe
K17-459	30	11.9	MAG	MPPprobe
K17-459	30.5	9.74	MAG	MPPprobe
K17-459	31	4.08	MAG	MPPprobe
K17-459	31.5	2.39	MAG	MPPprobe
K17-459	32	6.68	MAG	MPPprobe
K17-459	32.5	5.51	MAG	MPPprobe
K17-459	33	11	MAG	MPPprobe
K17-459	33.5	22.8	MAG	MPPprobe
K17-459	34	2.29	MAG	MPPprobe
K17-459	34.5	3.32	MAG	MPPprobe
K17-459	35	19.8	MAG	MPPprobe
K17-459	35.5	1.09	MAG	MPPprobe
K17-459	36	4.56	MAG	MPPprobe
K17-459	36.5	2.48	MAG	MPPprobe
K17-459	37	5.98	MAG	MPPprobe
K17-459	37.5	4.04	MAG	MPPprobe
K17-459	38	2.12	MAG	MPPprobe
K17-459	38.5	2.35	MAG	MPPprobe
K17-459	39	8.11	MAG	MPPprobe
K17-459	39.5	5.82	MAG	MPPprobe
K17-459	40	4.13	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-459	40.5	3.34	MAG	MPPprobe
K17-459	41	1.63	MAG	MPPprobe
K17-460	3.5	1.2	MAG	MPPprobe
K17-460	4	0.83	MAG	MPPprobe
K17-460	4.5	6.66	MAG	MPPprobe
K17-460	5	2.54	MAG	MPPprobe
K17-460	5.5	1.11	MAG	MPPprobe
K17-460	6	3.57	MAG	MPPprobe
K17-460	6.5	4.79	MAG	MPPprobe
K17-460	7	0.66	MAG	MPPprobe
K17-460	7.5	2.66	MAG	MPPprobe
K17-460	8	0.31	MAG	MPPprobe
K17-460	8.5	0.21	MAG	MPPprobe
K17-460	9	0.99	MAG	MPPprobe
K17-460	9.5	0.31	MAG	MPPprobe
K17-460	10	0.5	MAG	MPPprobe
K17-460	10.5	0.68	MAG	MPPprobe
K17-460	11	0.93	MAG	MPPprobe
K17-460	11.5	1.61	MAG	MPPprobe
K17-460	12	2.89	MAG	MPPprobe
K17-460	12.5	2.54	MAG	MPPprobe
K17-460	13	1.86	MAG	MPPprobe
K17-460	13.5	1.24	MAG	MPPprobe
K17-460	14	2.23	MAG	MPPprobe
K17-460	14.5	0.78	MAG	MPPprobe
K17-460	15	1.3	MAG	MPPprobe
K17-460	15.5	1.11	MAG	MPPprobe
K17-460	16	2.72	MAG	MPPprobe
K17-460	16.5	3.11	MAG	MPPprobe
K17-460	17	1.36	MAG	MPPprobe
K17-460	17.5	1.51	MAG	MPPprobe
K17-460	18	1.44	MAG	MPPprobe
K17-460	18.5	3.05	MAG	MPPprobe
K17-460	19	6.62	MAG	MPPprobe
K17-460	19.5	0.8	MAG	MPPprobe
K17-460	20	0.31	MAG	MPPprobe
K17-460	20.5	0.04	MAG	MPPprobe
K17-460	21	0.76	MAG	MPPprobe
K17-460	21.5	1.51	MAG	MPPprobe
K17-460	22	0.74	MAG	MPPprobe
K17-460	22.5	0.93	MAG	MPPprobe
K17-460	23	0	MAG	MPPprobe
K17-460	23.5	0.5	MAG	MPPprobe
K17-460	24	0.29	MAG	MPPprobe
K17-460	24.5	1.01	MAG	MPPprobe
K17-460	25	4.39	MAG	MPPprobe
K17-460	25.5	0	MAG	MPPprobe
K17-460	26	1.77	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-460	26.5	0.29	MAG	MPPprobe
K17-460	27	0.19	MAG	MPPprobe
K17-460	27.5	1.2	MAG	MPPprobe
K17-460	28	2.31	MAG	MPPprobe
K17-460	28.5	1.11	MAG	MPPprobe
K17-460	29	1.28	MAG	MPPprobe
K17-460	29.5	4.23	MAG	MPPprobe
K17-460	30	2.68	MAG	MPPprobe
K17-460	30.5	0.43	MAG	MPPprobe
K17-460	31	0.6	MAG	MPPprobe
K17-460	31.5	0.45	MAG	MPPprobe
K17-460	32	1.86	MAG	MPPprobe
K17-460	32.5	0.39	MAG	MPPprobe
K17-460	33	6.66	MAG	MPPprobe
K17-460	33.5	3.67	MAG	MPPprobe
K17-460	34	6.97	MAG	MPPprobe
K17-460	34.5	6.68	MAG	MPPprobe
K17-460	35	3.67	MAG	MPPprobe
K17-460	35.5	0.06	MAG	MPPprobe
K17-460	36	2.93	MAG	MPPprobe
K17-460	36.5	5.07	MAG	MPPprobe
K17-460	37	1.2	MAG	MPPprobe
K17-460	37.5	10	MAG	MPPprobe
K17-460	38	6.6	MAG	MPPprobe
K17-460	38.5	2.21	MAG	MPPprobe
K17-460	39	3.94	MAG	MPPprobe
K17-460	39.5	7.4	MAG	MPPprobe
K17-460	40	3.53	MAG	MPPprobe
K17-460	40.5	4.21	MAG	MPPprobe
K17-461	5.5	2.29	MAG	MPPprobe
K17-461	6	3.24	MAG	MPPprobe
K17-461	6.5	2.29	MAG	MPPprobe
K17-461	7	1.86	MAG	MPPprobe
K17-461	7.5	1.1	MAG	MPPprobe
K17-461	8	2.73	MAG	MPPprobe
K17-461	8.5	7.73	MAG	MPPprobe
K17-461	9	0	MAG	MPPprobe
K17-461	9.5	1.72	MAG	MPPprobe
K17-461	10	1.38	MAG	MPPprobe
K17-461	10.5	2.09	MAG	MPPprobe
K17-461	11	0.87	MAG	MPPprobe
K17-461	11.5	8.76	MAG	MPPprobe
K17-461	12	0.27	MAG	MPPprobe
K17-461	12.5	0.81	MAG	MPPprobe
K17-461	13	0.85	MAG	MPPprobe
K17-461	13.5	1.38	MAG	MPPprobe
K17-461	14	0	MAG	MPPprobe
K17-461	14.5	0.56	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-461	15	0.21	MAG	MPPprobe
K17-461	15.5	0.27	MAG	MPPprobe
K17-461	16	0.31	MAG	MPPprobe
K17-461	16.5	0	MAG	MPPprobe
K17-461	17	0.66	MAG	MPPprobe
K17-461	17.5	1.49	MAG	MPPprobe
K17-461	18	0.54	MAG	MPPprobe
K17-461	18.5	0.6	MAG	MPPprobe
K17-461	19	0.56	MAG	MPPprobe
K17-461	19.5	0.35	MAG	MPPprobe
K17-461	20	1.49	MAG	MPPprobe
K17-461	20.5	1.82	MAG	MPPprobe
K17-461	21	0.35	MAG	MPPprobe
K17-461	21.5	2.05	MAG	MPPprobe
K17-461	22	0	MAG	MPPprobe
K17-461	22.5	0	MAG	MPPprobe
K17-461	23	1.76	MAG	MPPprobe
K17-461	23.5	0.89	MAG	MPPprobe
K17-461	24	0.21	MAG	MPPprobe
K17-461	24.5	0.1	MAG	MPPprobe
K17-461	25	2.58	MAG	MPPprobe
K17-461	25.5	0.76	MAG	MPPprobe
K17-461	26	1.16	MAG	MPPprobe
K17-461	26.5	1.92	MAG	MPPprobe
K17-461	27	1.57	MAG	MPPprobe
K17-461	27.5	2.07	MAG	MPPprobe
K17-461	28	1.88	MAG	MPPprobe
K17-461	28.5	0.37	MAG	MPPprobe
K17-461	29	1.9	MAG	MPPprobe
K17-461	29.5	2.05	MAG	MPPprobe
K17-461	30	4.09	MAG	MPPprobe
K17-461	30.5	3.18	MAG	MPPprobe
K17-461	31	0	MAG	MPPprobe
K17-461	31.5	0.08	MAG	MPPprobe
K17-461	32	0.17	MAG	MPPprobe
K17-461	32.5	2.77	MAG	MPPprobe
K17-461	33	1.03	MAG	MPPprobe
K17-461	33.5	0.27	MAG	MPPprobe
K17-461	34	1.36	MAG	MPPprobe
K17-461	34.5	0.43	MAG	MPPprobe
K17-461	35	0.93	MAG	MPPprobe
K17-461	35.5	0.68	MAG	MPPprobe
K17-461	36	1.53	MAG	MPPprobe
K17-461	36.5	0.04	MAG	MPPprobe
K17-461	37	1.43	MAG	MPPprobe
K17-461	37.5	2.31	MAG	MPPprobe
K17-461	38	0	MAG	MPPprobe
K17-461	38.5	1.78	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-461	39	0.95	MAG	MPPprobe
K17-461	39.5	0	MAG	MPPprobe
K17-461	40	0.45	MAG	MPPprobe
K17-461	40.5	0.66	MAG	MPPprobe
K17-461	41	1.07	MAG	MPPprobe
K17-461	41.5	0.45	MAG	MPPprobe
K17-461	42	0.58	MAG	MPPprobe
K17-461	42.5	0.27	MAG	MPPprobe
K17-462	4	1.49	MAG	MPPprobe
K17-462	4.5	0.45	MAG	MPPprobe
K17-462	5	0.76	MAG	MPPprobe
K17-462	5.5	0	MAG	MPPprobe
K17-462	6	1.51	MAG	MPPprobe
K17-462	6.5	1.36	MAG	MPPprobe
K17-462	7	2.19	MAG	MPPprobe
K17-462	7.5	1.01	MAG	MPPprobe
K17-462	8	2.58	MAG	MPPprobe
K17-462	8.5	2.01	MAG	MPPprobe
K17-462	9	3.37	MAG	MPPprobe
K17-462	9.5	1.14	MAG	MPPprobe
K17-462	10	0.02	MAG	MPPprobe
K17-462	10.5	8.85	MAG	MPPprobe
K17-462	11	0	MAG	MPPprobe
K17-462	11.5	1.34	MAG	MPPprobe
K17-462	12	0	MAG	MPPprobe
K17-462	12.5	0.31	MAG	MPPprobe
K17-462	13	4.28	MAG	MPPprobe
K17-462	13.5	1.59	MAG	MPPprobe
K17-462	14	0.54	MAG	MPPprobe
K17-462	14.5	0.41	MAG	MPPprobe
K17-462	15	2.48	MAG	MPPprobe
K17-462	15.5	3.2	MAG	MPPprobe
K17-462	16	16.9	MAG	MPPprobe
K17-462	16.5	6.99	MAG	MPPprobe
K17-462	17	0.58	MAG	MPPprobe
K17-462	17.5	0	MAG	MPPprobe
K17-462	18	0.62	MAG	MPPprobe
K17-462	18.5	0.81	MAG	MPPprobe
K17-462	19	1.8	MAG	MPPprobe
K17-462	19.5	5.35	MAG	MPPprobe
K17-462	20	2.67	MAG	MPPprobe
K17-462	20.5	3.22	MAG	MPPprobe
K17-462	21	4.61	MAG	MPPprobe
K17-462	21.5	3.76	MAG	MPPprobe
K17-462	22	0.68	MAG	MPPprobe
K17-462	22.5	0.17	MAG	MPPprobe
K17-462	23	3.62	MAG	MPPprobe
K17-462	23.5	1.49	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-462	24	0.93	MAG	MPPprobe
K17-462	24.5	1.32	MAG	MPPprobe
K17-462	25	3.74	MAG	MPPprobe
K17-462	25.5	3.91	MAG	MPPprobe
K17-462	26	1.51	MAG	MPPprobe
K17-462	26.5	4.81	MAG	MPPprobe
K17-462	27	5.27	MAG	MPPprobe
K17-462	27.5	0.76	MAG	MPPprobe
K17-462	28	6.61	MAG	MPPprobe
K17-462	28.5	3.51	MAG	MPPprobe
K17-462	29	4.48	MAG	MPPprobe
K17-462	29.5	0.81	MAG	MPPprobe
K17-462	30	0.39	MAG	MPPprobe
K17-462	30.5	0.62	MAG	MPPprobe
K17-462	31	0.54	MAG	MPPprobe
K17-462	31.5	1.78	MAG	MPPprobe
K17-462	32	2.02	MAG	MPPprobe
K17-462	32.5	2.44	MAG	MPPprobe
K17-462	33	2.21	MAG	MPPprobe
K17-462	33.5	1.9	MAG	MPPprobe
K17-462	34	1.92	MAG	MPPprobe
K17-462	34.5	1.67	MAG	MPPprobe
K17-462	35	0.58	MAG	MPPprobe
K17-462	35.5	0.23	MAG	MPPprobe
K17-462	36	1.63	MAG	MPPprobe
K17-462	36.5	0.48	MAG	MPPprobe
K17-462	37	1.96	MAG	MPPprobe
K17-462	37.5	3.22	MAG	MPPprobe
K17-462	38	6.34	MAG	MPPprobe
K17-462	38.5	2.67	MAG	MPPprobe
K17-462	39	0.1	MAG	MPPprobe
K17-462	39.5	0.19	MAG	MPPprobe
K17-462	40	0.33	MAG	MPPprobe
K17-462	40.5	0.48	MAG	MPPprobe
K17-462	41	0.23	MAG	MPPprobe
K17-462	41.5	0.54	MAG	MPPprobe
K17-462	42	0.25	MAG	MPPprobe
K17-462	42.5	0.45	MAG	MPPprobe
K17-463	9	1.28	MAG	MPPprobe
K17-463	9.5	3.19	MAG	MPPprobe
K17-463	10	1.74	MAG	MPPprobe
K17-463	10.5	5.59	MAG	MPPprobe
K17-463	11	0.68	MAG	MPPprobe
K17-463	11.5	1.18	MAG	MPPprobe
K17-463	12	2.26	MAG	MPPprobe
K17-464	5	1.28	MAG	MPPprobe
K17-464	5.5	0.35	MAG	MPPprobe
K17-464	6	0.41	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-464	6.5	0.08	MAG	MPPprobe
K17-464	7	0.17	MAG	MPPprobe
K17-464	7.5	0.1	MAG	MPPprobe
K17-464	8	0.19	MAG	MPPprobe
K17-464	8.5	0.17	MAG	MPPprobe
K17-464	9	0.6	MAG	MPPprobe
K17-464	9.5	0.27	MAG	MPPprobe
K17-464	10	0	MAG	MPPprobe
K17-464	10.5	0.5	MAG	MPPprobe
K17-464	11	0	MAG	MPPprobe
K17-464	11.5	0	MAG	MPPprobe
K17-464	12	0	MAG	MPPprobe
K17-464	12.5	0.6	MAG	MPPprobe
K17-464	13	0.25	MAG	MPPprobe
K17-464	13.5	0.33	MAG	MPPprobe
K17-464	14	0.23	MAG	MPPprobe
K17-464	14.5	4.66	MAG	MPPprobe
K17-464	15	4.16	MAG	MPPprobe
K17-464	15.5	3.11	MAG	MPPprobe
K17-464	16	0	MAG	MPPprobe
K17-464	16.5	1.53	MAG	MPPprobe
K17-464	17	0.1	MAG	MPPprobe
K17-464	17.5	1.32	MAG	MPPprobe
K17-464	18	1.01	MAG	MPPprobe
K17-464	18.5	0.19	MAG	MPPprobe
K17-464	19	2.59	MAG	MPPprobe
K17-464	19.5	3.4	MAG	MPPprobe
K17-464	20	9.17	MAG	MPPprobe
K17-464	20.5	6.23	MAG	MPPprobe
K17-464	21	2.65	MAG	MPPprobe
K17-464	21.5	3.93	MAG	MPPprobe
K17-464	22	0.6	MAG	MPPprobe
K17-464	22.5	0.19	MAG	MPPprobe
K17-464	23	0.06	MAG	MPPprobe
K17-464	23.5	0.39	MAG	MPPprobe
K17-464	24	0.35	MAG	MPPprobe
K17-464	24.5	0.08	MAG	MPPprobe
K17-464	25	0	MAG	MPPprobe
K17-464	25.5	0.7	MAG	MPPprobe
K17-464	26	0.27	MAG	MPPprobe
K17-464	26.5	0	MAG	MPPprobe
K17-464	27	0	MAG	MPPprobe
K17-464	27.5	0.83	MAG	MPPprobe
K17-464	28	0.04	MAG	MPPprobe
K17-464	28.5	0.02	MAG	MPPprobe
K17-464	29	0	MAG	MPPprobe
K17-464	29.5	0	MAG	MPPprobe
K17-464	30	0.21	MAG	MPPprobe

Hole	Depth (m)	Reading	Method	Instrument
K17-464	30.5	0.17	MAG	MPPprobe
K17-464	31	0	MAG	MPPprobe
K17-464	31.5	0	MAG	MPPprobe
K17-464	32	6.25	MAG	MPPprobe
K17-464	32.5	0.19	MAG	MPPprobe
K17-464	33	0.02	MAG	MPPprobe
K17-464	33.5	0.02	MAG	MPPprobe
K17-464	34	0	MAG	MPPprobe
K17-464	34.5	0	MAG	MPPprobe
K17-464	35	0.1	MAG	MPPprobe
K17-464	35.5	0.17	MAG	MPPprobe
K17-464	36	0.06	MAG	MPPprobe
K17-464	36.5	0	MAG	MPPprobe
K17-464	37	0.12	MAG	MPPprobe
K17-464	37.5	2.4	MAG	MPPprobe
K17-464	38	0.23	MAG	MPPprobe
K17-464	38.5	0.89	MAG	MPPprobe
K17-464	39	2.9	MAG	MPPprobe
K17-464	39.5	0.62	MAG	MPPprobe
K17-464	40	0.08	MAG	MPPprobe
K17-465	6	0	MAG	MPPprobe
K17-465	6.5	0	MAG	MPPprobe
K17-465	7	0	MAG	MPPprobe
K17-465	7.5	0.43	MAG	MPPprobe
K17-465	8	0.04	MAG	MPPprobe
K17-465	8.5	2.19	MAG	MPPprobe
K17-465	9	0.02	MAG	MPPprobe
K17-465	9.5	4.34	MAG	MPPprobe
K17-465	10	0.68	MAG	MPPprobe
K17-465	10.5	0.27	MAG	MPPprobe
K17-466	5.5	0.06	MAG	MPPprobe
K17-466	6	0	MAG	MPPprobe
K17-466	6.5	0.25	MAG	MPPprobe
K17-466	7	0.06	MAG	MPPprobe
K17-466	7.5	0	MAG	MPPprobe
K17-466	8	0.33	MAG	MPPprobe
K17-466	8.5	0	MAG	MPPprobe
K17-466	9	0.21	MAG	MPPprobe
K17-466	9.5	0.33	MAG	MPPprobe
K17-466	13	0.12	MAG	MPPprobe
K17-466	13.5	0.02	MAG	MPPprobe
K17-466	14	0.1	MAG	MPPprobe
K17-466	14.25	0.29	MAG	MPPprobe
K17-466	14.5	0.08	MAG	MPPprobe
K17-466	15	0.19	MAG	MPPprobe

Table R-4: Bulk density measurements from 2017 Drilling

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-420	12.75	12.86	0.11	959	614	2.78	
K17-420	21.23	21.35	0.12	1001	623	2.648	
K17-420	31.65	31.76	0.11	792	499	2.703	
K17-420	40.89	41	0.11	932	615	2.94	
K17-420	50.64	50.77	0.13	1036	663	2.777	
K17-420	60.86	60.96	0.1	906	582	2.796	
K17-420	71	71.15	0.15	1129	726	2.801	
K17-420	80.15	80.31	0.16	1277	821	2.8	
K17-420	89.91	90.06	0.15	1292	827	2.778	
K17-420	90.06	90.06	0	2494	1551	2.645	SG RHY Standard
K17-420	100.75	100.89	0.14	1134	726	2.779	
K17-420	109.87	110	0.13	1063	678	2.761	
K17-420	118.78	118.89	0.11	968	577	2.476	
K17-420	127.86	128	0.14	1158	744	2.797	
K17-420	137.3	137.4	0.1	865	557	2.808	
K17-420	146.85	146.95	0.1	663	430	2.845	
K17-420	156.47	156.61	0.14	1153	765	2.972	
K17-420	166.48	166.62	0.14	1154	725	2.69	
K17-420	171.5	173	1.5	4472	2842	2.744	D00004501
K17-420	173	174.5	1.5	5772	3677	2.755	D00004502
K17-420	174.5	176	1.5	3310	2109	2.756	D00004503
K17-420	176	177.4	1.4	6032	3820	2.727	D00004504
K17-420	177.4	178.8	1.4	5460	3520	2.814	D00004505
K17-420	178.8	180.2	1.4	6738	4343	2.813	D00004506
K17-420	180.2	181.6	1.4	4778	3067	2.793	D00004507
K17-420	181.6	183	1.4	6373	4113	2.82	D00004508
K17-420	183	184.3	1.3	4613	2973	2.813	D00004509
K17-420	184.3	185.57	1.27	4046	2556	2.715	D00004511
K17-420	185.57	185.57	0	1595	1251	4.637	SG Min Standard
K17-420	185.57	186.39	0.82	4524	3092	3.159	D00004512
K17-420	186.39	187.8	1.41	5144	3273	2.749	D00004513
K17-420	187.8	189.3	1.5	6483	4173	2.806	D00004514
K17-420	189.3	190.8	1.5	4557	2953	2.841	D00004515
K17-420	194.7	194.7	0	2493	1551	2.646	SG RHY Standard
K17-420	194.7	194.81	0.11	799	509	2.755	
K17-420	199.88	200	0.12	957	606	2.726	
K17-421	0	0	0	2492	1553	2.654	SG RHY Standard
K17-421	11.07	11.25	0.18	1444	898	2.645	
K17-421	20.3	20.47	0.17	964	603	2.67	
K17-421	31.51	31.65	0.14	1253	808	2.816	
K17-421	39.6	39.74	0.14	1079	675	2.671	
K17-422	10.82	10.82	0	2492	1550	2.645	SG RHY Standard
K17-422	10.82	10.97	0.15	1211	765	2.715	
K17-422	19.56	19.66	0.1	838	538	2.793	
K17-422	31.15	31.3	0.15	1126	716	2.746	
K17-422	39.91	40.03	0.12	984	643	2.886	
K17-422	50.9	51.03	0.13	906	569	2.688	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-422	60.97	61.09	0.12	903	574	2.745	
K17-422	70.27	70.4	0.13	1047	670	2.777	
K17-422	80.29	80.44	0.15	1243	798	2.793	
K17-422	92	92.14	0.14	1055	688	2.875	
K17-422	102.54	102.65	0.11	817	522	2.769	
K17-422	111.35	111.35	0	2493	1551	2.646	SG RHY Standard
K17-422	111.35	111.47	0.12	1050	671	2.77	
K17-422	120.25	120.37	0.12	939	599	2.762	
K17-422	130.79	130.93	0.14	1119	721	2.812	
K17-422	142.12	142.25	0.13	947	597	2.706	
K17-422	142.4	143.9	1.5	3776	2399	2.742	D00004516
K17-422	143.9	145.4	1.5	5079	3245	2.769	D00004517
K17-422	145.4	146.88	1.48	6161	3924	2.754	D00004518
K17-422	146.88	147.71	0.83	4456	3047	3.163	D00004519
K17-422	147.71	148.5	0.79	3802	2683	3.398	D00004522
K17-422	148.5	149.66	1.16	6675	4931	3.827	D00004523
K17-422	149.66	149.66	0	1595	1251	4.637	SG Min Standard
K17-422	149.66	150.23	0.57	3919	2764	3.393	D00004524
K17-422	150.23	151.43	1.2	4676	2983	2.762	D00004525
K17-422	151.43	152.61	1.18	4002	2559	2.773	D00004526
K17-422	152.61	154	1.39	4379	2798	2.77	D00004527
K17-422	154	155.1	1.1	3649	2331	2.769	D00004528
K17-422	155.1	156.25	1.15	4322	2790	2.821	D00004529
K17-422	156.25	157.5	1.25	5362	3539	2.941	D00004531
K17-422	157.5	158.8	1.3	4974	3258	2.899	D00004532
K17-422	158.8	160.05	1.25	4250	2850	3.036	D00004533
K17-422	160.05	161.2	1.15	4123	2773	3.054	D00004534
K17-422	161.2	162.3	1.1	4041	2758	3.15	D00004535
K17-422	162.3	163.4	1.1	6104	4118	3.074	D00004536
K17-422	163.4	164.5	1.1	4716	3191	3.092	D00004537
K17-422	164.5	165.65	1.15	5250	3548	3.085	D00004538
K17-422	165.65	166.08	0.43	1938	1244	2.793	D00004539
K17-422	166.08	167.5	1.42	5997	3849	2.792	D00004541
K17-422	167.5	168.7	1.2	4770	3052	2.776	D00004542
K17-422	168.7	170.2	1.5	6187	3991	2.817	D00004543
K17-422	171.75	171.86	0.11	922	587	2.752	
K17-422	181.73	181.87	0.14	1135	722	2.748	
K17-422	191.21	191.33	0.12	1001	642	2.788	
K17-422	200.88	200.88	0	2494	1552	2.648	SG RHY Standard
K17-422	200.88	201.05	0.17	1425	936	2.914	
K17-422	210.76	210.9	0.14	1158	735	2.738	
K17-422	220.35	220.46	0.11	984	630	2.78	
K17-423	0	0	0	2492	1550	2.645	SG RHY Standard
K17-423	9.96	10.11	0.15	1338	869	2.853	
K17-423	19.58	19.72	0.14	1314	848	2.82	
K17-423	29.95	30.06	0.11	923	587	2.747	
K17-423	39.29	39.44	0.15	1263	815	2.819	
K17-424	13.74	13.85	0.11	917	582	2.737	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-424	23.62	23.78	0.16	1299	832	2.782	
K17-424	33.5	33.63	0.13	1066	701	2.921	
K17-424	43.45	43.56	0.11	949	613	2.824	
K17-424	52.72	52.9	0.18	1478	948	2.789	
K17-424	62.03	62.15	0.12	1060	686	2.834	
K17-424	62.15	62.15	0	2492	1557	2.665	SG RHY standard
K17-424	72.61	72.79	0.18	1497	967	2.825	
K17-424	82.69	82.84	0.15	1275	822	2.815	
K17-424	91.1	91.22	0.12	935	594	2.742	
K17-424	101.98	102.1	0.12	929	587	2.716	
K17-424	110.56	110.68	0.12	987	629	2.757	
K17-424	120.37	120.49	0.12	963	608	2.713	
K17-424	128	128.17	0.17	1431	915	2.773	
K17-424	130.89	132.1	1.21	5353	3425	2.776	D00004544
K17-424	132.1	133.59	1.49	6960	4564	2.905	D00004545
K17-424	133.59	134.54	0.95	4454	2879	2.828	D00004546
K17-424	134.54	135.6	1.06	5256	3638	3.248	D00004547
K17-424	135.6	136.62	1.02	7046	5270	3.967	D00004548
K17-424	136.62	137.6	0.98	6178	4652	4.048	D00004549
K17-424	137.6	138.22	0.62	3702	2620	3.421	D00004551
K17-424	138.22	139.6	1.38	6221	4089	2.918	D00004552
K17-424	139.6	140.85	1.25	5529	3577	2.832	D00004553
K17-424	140.52	140.62	0.10	877	570	2.857	
K17-424	140.85	142.35	1.5	4657	2965	2.752	D00004554
K17-424	148.2	148.34	0.14	1186	749	2.714	
K17-424	158.14	158.27	0.13	1093	711	2.861	
K17-424	169.59	169.6	0.01	899	573	2.758	
K17-425	0	0	0	2491	1553	2.656	SG RHY Standard
K17-425	11.14	11.32	0.18	1449	910	2.688	
K17-425	20.72	20.89	0.17	1343	841	2.675	
K17-425	31.12	31.24	0.12	954	594	2.65	
K17-425	39.91	40.04	0.13	1078	691	2.786	
K17-426	0	0	0	2492	1552	2.651	SG RHY Standard
K17-426	13.85	13.99	0.14	1091	700	2.79	
K17-426	24.25	24.39	0.14	1062	682	2.795	
K17-426	28.47	28.62	0.15	1228	782	2.753	
K17-426B	0	0	0	2492	1551	2.648	SG RHY Standard
K17-426B	14.86	14.98	0.12	994	637	2.784	
K17-426B	24.64	24.76	0.12	967	621	2.795	
K17-426B	35.54	35.68	0.14	1145	724	2.72	
K17-426B	39.97	40.07	0.1	769	485	2.708	
K17-427	11.8	11.8	0	2492	1549	2.643	SG RHY Standard
K17-427	11.8	11.93	0.13	1106	723	2.888	
K17-427	21.36	21.47	0.11	873	556	2.754	
K17-427	33.04	33.15	0.11	911	578	2.736	
K17-427	42.75	42.85	0.1	819	521	2.748	
K17-427	53.54	53.66	0.12	918	581	2.724	
K17-427	63.7	63.82	0.12	940	601	2.773	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-427	71.85	71.93	0.08	713	458	2.796	
K17-427	83.68	83.79	0.11	867	556	2.788	
K17-427	93.58	93.69	0.11	871	556	2.765	
K17-427	103.32	103.46	0.14	1198	770	2.799	
K17-427	112.35	112.35	0	2494	1551	2.645	SG RHY Standard
K17-427	112.35	112.48	0.13	1106	712	2.807	
K17-427	123.12	123.23	0.11	858	547	2.759	
K17-427	132.17	132.28	0.11	871	559	2.792	
K17-427	142.85	142.95	0.1	776	496	2.771	
K17-427	151.59	151.69	0.1	801	509	2.743	
K17-428	0	0	0	2492	1550	2.645	SG RHY Standard
K17-428	10.95	11.15	0.2	1574	1008	2.781	
K17-428	19.97	20.14	0.17	1328	850	2.778	
K17-428	30.12	30.23	0.11	874	557	2.757	
K17-428	39.86	40.02	0.16	1235	802	2.852	
K17-429	0	0	0	2492	1559	2.671	SG RHY Standard
K17-429	10.91	11.05	0.14	1160	747	2.809	
K17-429	25.02	25.24	0.22	1738	1117	2.799	
K17-429	29.04	29.21	0.17	1459	940	2.811	
K17-429	35.87	36.08	0.21	1809	1129	2.66	
K17-430	18.12	18.13	0.01	2492	1595	2.778	SG RHY Standard
K17-430	18.13	18.14	0.01	1595	1251	4.637	SG Min Standard
K17-430	18.14	18.29	0.15	1034	666	2.81	
K17-430	27.97	28.13	0.16	1301	852	2.898	
K17-430	37.75	37.87	0.12	969	628	2.842	
K17-430	47	47.16	0.16	1307	825	2.712	
K17-430	57.6	57.79	0.19	1510	960	2.745	
K17-430	66.85	67.03	0.18	1752	1122	2.781	
K17-430	77.35	77.53	0.18	1332	845	2.735	
K17-430	86.68	86.86	0.18	1478	953	2.815	
K17-430	96.5	96.72	0.22	1868	1184	2.731	
K17-430	105.75	105.87	0.12	1006	645	2.787	
K17-430	109.56	110.7	1.14	1200	771	2.797	
K17-430	121.81	121.81	0	2492	1550	2.645	SG RHY Standard
K17-430	121.82	121.82	0	1594	1250	4.634	SG Min Standard
K17-430	121.83	121.96	0.13	1091	697	2.769	
K17-430	127.32	127.43	0.11	815	519	2.753	
K17-430	137.57	137.74	0.17	987	635	2.804	
K17-430	147.16	147.27	0.11	939	603	2.795	
K17-430	155.87	156.08	0.21	1731	1111	2.792	
K17-430	166.21	166.35	0.14	1044	665	2.755	
K17-430	168	169.5	1.5	4326	2777	2.793	D00004555
K17-430	169.5	171	1.5	4554	2924	2.794	D00004556
K17-430	171	172.2	1.2	3071	1960	2.764	D00004557
K17-430	172.2	173.3	1.1	2206	1401	2.74	D00004558
K17-430	173.3	174.4	1.1	4666	3003	2.806	D00004559
K17-430	174.4	175.5	1.1	2939	1889	2.799	D00004561
K17-430	175.74	175.9	0.16	1349	862	2.77	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-430	175.5	176.7	1.2	3575	2244	2.686	D00004562
K17-430	176.7	178.1	1.4	3693	2353	2.756	D00004563
K17-430	178.1	179.5	1.4	5244	3338	2.751	D00004564
K17-430	181.02	181.14	0.12	1028	659	2.786	
K17-430	181.15	181.16	0.01	2492	1551	2.648	SG RHY Standard
K17-430	181.17	181.18	0.01	1594	1250	4.634	SG Min Standard
K17-437	28.99	28.99	0	2493	1551	2.646	SG RHY Standard
K17-437	29	30.5	1.5	6386	3979	2.653	D00004565
K17-437	30.5	32	1.5	2339	1465	2.676	D00004566
K17-437	32	34.79	2.79	2685	1677	2.664	D00004567
K17-437	34.79	36	1.21	4289	3254	4.144	D00004568
K17-437	36	36	0	1595	1251	4.637	SG Min Standard
K17-437	36	37.17	1.17	3117	2265	3.658	D00004569
K17-437	37.17	38.5	1.33	5446	3577	2.914	D00004571
K17-437	38.5	39.9	1.4	4123	2724	2.947	D00004572
K17-437	39.9	41.09	1.19	5011	3316	2.956	D00004573
K17-437	41.09	41.6	0.51	2177	1476	3.106	D00004574
K17-437	41.6	43	1.4	4030	2528	2.683	D00004575
K17-437	43	44.43	1.43	4881	3055	2.673	D00004576
K17-437	44.43	45.78	1.35	4246	2655	2.669	D00004577
K17-437	49.78	49.95	0.17	1278	799	2.668	
K17-437	61.04	61.18	0.14	1086	672	2.623	
K17-437	70.7	70.84	0.14	1126	715	2.74	
K17-437	80.14	80.24	0.1	733	448	2.572	
K17-437	89.94	90.04	0.1	735	458	2.653	
K17-437	118.11	118.27	0.16	1378	906	2.919	
K17-437	128.29	128.41	0.12	1050	667	2.742	
K17-437	137.32	137.46	0.14	1209	774	2.779	
K17-437	149.03	149.03	0	2495	1552	2.646	SG RHY Standard
K17-437	149.03	149.16	0.13	1151	738	2.787	
K17-438	17.19	17.19	0	2493	1551	2.646	SG RHY Standard
K17-438	17.19	17.34	0.15	1272	817	2.796	
K17-438	27.03	27.16	0.13	901	589	2.888	
K17-438	38.35	38.49	0.14	1070	691	2.823	
K17-438	49.22	49.37	0.15	1145	733	2.779	
K17-438	62.46	62.58	0.12	1082	693	2.781	
K17-438	80.06	80.2	0.14	956	622	2.862	
K17-438	113.31	113.47	0.16	1169	745	2.757	
K17-438	118.9	119.01	0.11	922	593	2.802	
K17-438	158	158.15	0.15	1366	877	2.793	
K17-438	172.82	172.94	0.12	1000	641	2.786	
K17-438	182	182	0	2493	1552	2.649	SG RHY Standard
K17-438	182	182.09	0.09	775	502	2.839	
K17-438	188.37	188.55	0.18	1398	897	2.79	
K17-439	18.71	18.71	0	2491	1554	2.658	SG RHY Standard
K17-439	18.71	18.89	0.18	1320	839	2.744	
K17-439	29.42	29.73	0.31	2594	1646	2.736	
K17-439	39.19	39.33	0.14	1080	693	2.791	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-439	48.74	48.97	0.23	1601	1028	2.794	
K17-439	58.82	59	0.18	1151	725	2.702	
K17-439	71	71.18	0.18	1318	838	2.746	
K17-439	81.24	81.47	0.23	1976	1226	2.635	
K17-439	91.27	91.4	0.13	907	581	2.782	
K17-439	100.47	100.7	0.23	1946	1238	2.749	
K17-439	110.18	110.29	0.11	1164	768	2.939	
K17-439	110.29	110.29	0	2592	1555	2.5	SG RHY Standard
K17-439	119.78	120	0.22	1678	1078	2.797	
K17-440	0	0	0	2492	1552	2.651	SG RHY Standard
K17-440	14	14.13	0.13	1196	779	2.868	
K17-440	26.9	27.08	0.18	1431	911	2.752	
K17-440	36.23	36.44	0.21	1591	997	2.678	
K17-440	45.96	46.1	0.14	1054	672	2.759	
K17-440	56.46	56.65	0.19	1581	1032	2.88	
K17-440	67.27	67.43	0.16	1364	881	2.824	
K17-440	76.76	76.96	0.2	1498	962	2.795	
K17-440	85.58	86.69	1.11	1056	675	2.772	
K17-440	96.26	96.45	0.19	1530	976	2.762	
K17-440	105.89	106.09	0.2	1610	1035	2.8	
K17-440	106.1	106.1	0	2492	1552	2.651	SG RHY Standard
K17-440	116.37	116.53	0.16	1288	824	2.776	
K17-440	125.37	125.47	0.1	840	548	2.877	
K17-440	137.75	137.88	0.13	1069	680	2.748	
K17-440	147.06	147.19	0.13	1195	764	2.773	
K17-440	151.9	152	0.1	870	554	2.753	
K17-440	152	152	0	2493	1553	2.652	SG RHY Standard
K17-441	0	0	0	2492	1551	2.648	SG RHY Standard
K17-441	11.11	11.2	0.09	757	480	2.733	
K17-441	19.82	19.92	0.1	822	531	2.825	
K17-441	29.86	30	0.14	1146	732	2.768	
K17-441	39.18	39.3	0.12	996	637	2.774	
K17-442	0	0	0	2492	1551	2.648	SG RHY Standard
K17-442	12.83	12.98	0.15	1183	758	2.784	
K17-442	21.18	21.3	0.12	994	636	2.777	
K17-442	30.17	30.31	0.14	1169	748	2.777	
K17-442	39.74	39.92	0.18	1433	912	2.75	
K17-443	0	0	0	2492	1552	2.651	SG RHY Standard
K17-443	10	10.1	0.1	828	527	2.751	
K17-443	19.19	19.29	0.1	888	583	2.911	
K17-443	30.4	30.5	0.1	838	545	2.86	
K17-443	37.98	38.16	0.18	1463	949	2.846	
K17-444	0	0	0	2492	1551	2.648	SG RHY Standard
K17-444	15.37	15.47	0.1	763	491	2.805	
K17-444	24.64	24.78	0.14	1171	760	2.849	
K17-444	34.65	34.79	0.14	1090	700	2.795	
K17-444	43.4	43.55	0.15	1240	798	2.805	
K17-445	0	0	0	2492	1550	2.645	SG RHY Standard

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-445	12.89	12.99	0.1	820	524	2.77	
K17-445	22	22.18	0.18	1558	994	2.762	
K17-445	29.01	29.12	0.11	851	531	2.659	
K17-445	39.49	39.62	0.13	1026	657	2.78	
K17-446	0	0	0	2492	1551	2.648	SG RHY Standard
K17-446	10	10.16	0.16	1329	845	2.746	
K17-446	21.01	21.11	0.1	826	533	2.819	
K17-446	30.15	30.25	0.1	934	611	2.892	
K17-446	39.51	39.66	0.15	1275	822	2.815	
K17-447	15.75	15.75	0	2491	1550	2.647	SG RHY Standard
K17-447	15.75	15.96	0.21	1722	1115	2.837	
K17-447	26.73	26.88	0.15	1265	817	2.824	
K17-447	36.93	37.13	0.2	1595	1032	2.833	
K17-447	44.73	44.9	0.17	1460	952	2.874	
K17-447	48.62	50.12	1.5	6985	4566	2.888	D00004579
K17-447	50.12	51.29	1.17	6134	4211	3.19	D00004581
K17-447	51.29	52.79	1.5	6236	4041	2.841	D00004582
K17-447	58.74	58.92	0.18	1420	920	2.84	
K17-447	68.39	68.54	0.15	1252	815	2.865	
K17-447	78.47	78.59	0.12	1058	688	2.859	
K17-447	78.59	78.59	0	2492	1551	2.648	SG RHY Standard
K17-447	87.08	87.28	0.2	1182	759	2.794	
K17-447	96.8	96.96	0.16	1458	961	2.934	
K17-447	106.8	107	0.2	1573	1006	2.774	
K17-447	118.86	119	0.14	1184	754	2.753	
K17-447	126.8	127	0.2	1761	1129	2.786	
K17-447	135.8	135.94	0.14	984	626	2.749	
K17-447	146.97	147.11	0.14	1186	755	2.752	
K17-447	155.82	156.01	0.19	1522	974	2.777	
K17-447	166.75	166.91	0.16	1392	891	2.778	
K17-447	174.61	174.73	0.12	1067	675	2.722	
K17-447	174.73	174.73	0	2493	1550	2.644	SG RHY Standard
K17-447	185.65	185.8	0.15	1250	799	2.772	
K17-447	195.51	195.66	0.15	1155	746	2.824	
K17-447	205.73	205.85	0.12	961	620	2.818	
K17-447	215.31	215.5	0.19	1566	1004	2.786	
K17-447	224.76	224.95	0.19	1564	1010	2.823	
K17-447	234.59	234.8	0.21	1632	1046	2.785	
K17-447	246.17	246.37	0.2	1603	1026	2.778	
K17-447	255.45	255.57	0.12	945	603	2.763	
K17-447	266.31	266.41	0.1	829	527	2.745	
K17-447	276.63	276.75	0.12	954	615	2.814	
K17-447	276.75	276.75	0	2492	1550	2.645	SG RHY Standard
K17-447	286.89	287	0.11	760	479	2.705	
K17-447	296.07	296.17	0.1	791	508	2.795	
K17-447	304.74	304.92	0.18	1391	892	2.788	
K17-447	314	314.11	0.11	852	536	2.696	
K17-447	326.05	326.15	0.1	825	527	2.768	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-447	334.27	334.42	0.15	1223	783	2.78	
K17-447	343.5	343.67	0.17	1458	929	2.756	
K17-447	352.87	352.98	0.11	896	572	2.765	
K17-447	364.58	364.69	0.11	921	589	2.774	
K17-447	374.77	374.89	0.12	961	613	2.761	
K17-447	374.89	374.89	0	2492	1567	2.694	SG RHY Standard
K17-447	384.75	384.88	0.13	1032	652	2.716	
K17-447	393.17	393.31	0.14	1101	698	2.732	
K17-447	403.89	404	0.11	947	612	2.827	
K17-447	412.86	413	0.14	1028	658	2.778	
K17-447	421.85	422.29	0.44	2237	1438	2.8	D00004583
K17-447	424.84	424.96	0.12	1028	662	2.809	
K17-447	434.21	434.32	0.11	885	574	2.846	
K17-447	443.12	443.28	0.16	1307	848	2.847	
K17-447	451.85	452	0.15	1316	867	2.931	
K17-448	0	0	0	2492	1549	2.643	SG RHY Standard
K17-448	16.33	16.47	0.14	1149	739	2.802	
K17-448	25.85	26	0.15	1274	828	2.857	
K17-448	35	35.1	0.1	778	499	2.789	
K17-448	45.62	45.72	0.1	854	549	2.8	
K17-448	55.9	56	0.1	755	487	2.817	
K17-448	69.62	69.62	0	2492	1549	2.643	SG RHY Standard
K17-448	69.62	69.72	0.1	876	561	2.781	
K17-448	77.58	77.74	0.16	1352	853	2.709	
K17-448	90.17	90.3	0.13	1113	711	2.769	
K17-448	99.46	99.61	0.15	1134	711	2.681	
K17-448	107.85	108	0.15	1327	869	2.897	
K17-448	117.67	117.79	0.12	1028	662	2.809	
K17-448	127.64	127.8	0.16	1296	836	2.817	
K17-448	138.16	138.16	0	2492	1548	2.64	SG RHY Standard
K17-448	138.16	138.27	0.11	884	574	2.852	
K17-448	146.6	146.76	0.16	1385	889	2.792	
K17-448	158.73	158.91	0.18	1532	992	2.837	
K17-448	167.33	167.47	0.14	1151	739	2.794	
K17-448	177.11	177.28	0.17	1306	817	2.671	
K17-448	187.68	187.79	0.11	913	585	2.784	
K17-448	197	197.17	0.17	1281	807	2.703	
K17-448	207.6	207.72	0.12	967	608	2.694	
K17-448	217.65	217.75	0.1	805	510	2.729	
K17-448	228.29	228.29	0	2492	1549	2.643	SG RHY Standard
K17-448	228.29	228.4	0.11	851	537	2.71	
K17-448	236.98	237.09	0.11	942	598	2.738	
K17-448	247.91	248	0.09	749	481	2.795	
K17-448	257.37	257.57	0.2	796	512	2.803	
K17-448	267.13	267.28	0.15	1150	742	2.819	
K17-448	277.56	277.66	0.1	814	515	2.722	
K17-448	287.89	287.99	0.1	836	531	2.741	
K17-448	298.07	298.17	0.1	865	565	2.883	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-448	307.73	307.83	0.1	795	504	2.732	
K17-448	317.74	317.74	0	1087	706	2.853	SG RHY Standard
K17-448	317.74	317.87	0.13	1087	706	2.853	
K17-448	329.06	329.18	0.12	977	616	2.706	
K17-448	336.99	337.12	0.13	1117	732	2.901	
K17-448	348.85	348.94	0.09	732	478	2.882	
K17-448	357.68	357.78	0.1	700	437	2.662	
K17-448	368.45	368.59	0.14	1056	665	2.701	
K17-448	377.24	377.37	0.13	994	627	2.708	
K17-448	389	389.1	0.1	887	571	2.807	
K17-448	397.52	397.66	0.14	1142	725	2.739	
K17-448	407.28	407.39	0.11	806	515	2.77	
K17-448	407.39	407.39	0	2492	1550	2.645	SG RHY Standard
K17-448	417.39	417.51	0.12	919	594	2.828	
K17-448	425.25	425.35	0.1	917	570	2.643	
K17-448	435.61	435.74	0.13	1090	692	2.739	
K17-448	445.88	445.98	0.1	959	622	2.846	
K17-448	457.74	457.88	0.14	1035	650	2.688	
K17-448	466.82	466.96	0.14	1075	684	2.749	
K17-448	476.01	476.14	0.13	1024	644	2.695	
K17-448	482.6	482.6	0	2491	1550	2.647	SG RHY Standard
K17-448	482.6	482.71	0.11	937	586	2.67	
K17-448	492.49	492.71	0.22	989	610	2.609	
K17-448	501.64	501.73	0.09	672	421	2.677	
K17-448	512.96	513.1	0.14	1098	697	2.738	
K17-448	521.9	522.1	0.2	1567	989	2.711	
K17-448	533.21	533.35	0.14	1020	640	2.684	
K17-448	561.39	561.51	0.12	927	584	2.703	
K17-448	571.53	571.66	0.13	1094	715	2.887	
K17-448	571.66	571.66	0	2491	1550	2.647	SG RHY Standard
K17-448	581.53	581.65	0.12	929	588	2.724	
K17-448	592.13	592.28	0.15	1249	787	2.703	
K17-448	601.4	601.54	0.14	1063	671	2.712	
K17-448	613.26	613.4	0.14	1136	725	2.764	
K17-448	634	634.14	0.14	1108	720	2.856	
K17-448	642.39	642.5	0.11	952	612	2.8	
K17-448	653	653.12	0.12	897	567	2.718	
K17-448	665	665.26	0.26	2104	1335	2.736	
K17-448	674	674.14	0.14	1086	687	2.722	
K17-448	682.28	682.4	0.12	1027	666	2.845	
K17-448	682.4	682.4	0	2492	1550	2.645	SG RHY Standard
K17-448	694	694.14	0.14	1492	967	2.842	
K17-448	703.32	703.5	0.18	1150	727	2.719	
K17-448	713.71	713.71	0	2492	1550	2.645	SG RHY Standard
K17-448	713.71	713.84	0.13	1104	698	2.719	
K17-448	725.65	725.76	0.11	933	607	2.862	
K17-448	734.28	734.38	0.1	734	474	2.823	
K17-448	743.82	743.96	0.14	1035	655	2.724	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-448	754.44	754.57	0.13	1091	713	2.886	
K17-448	764.25	764.37	0.12	908	598	2.929	
K17-448	773	773.13	0.13	1084	709	2.891	
K17-448	783.52	783.63	0.11	975	653	3.028	
K17-448	795.1	795.21	0.11	772	485	2.69	
K17-448	803.35	803.5	0.15	1107	697	2.7	
K17-448	814.9	814.9	0	2493	1551	2.646	SG RHY Standard
K17-448	814.9	815	0.1	834	546	2.896	
K17-448	823.79	823.92	0.13	1154	758	2.914	
K17-448	830	830	0	2491	1551	2.65	SG RHY Standard
K17-448	830	830.11	0.11	923	598	2.84	
K17-448	839.89	840.05	0.16	1335	875	2.902	
K17-448	848.83	848.99	0.16	1300	848	2.876	
K17-448	859.86	860	0.14	1108	727	2.908	
K17-448	870.98	871.15	0.17	1371	897	2.892	
K17-448	879.51	879.66	0.15	1285	849	2.947	
K17-448	888.22	888.3	0.08	714	447	2.674	
K17-448	899.01	899.08	0.07	637	423	2.977	
K17-448	911	911.13	0.13	1011	640	2.725	
K17-448	920	920.13	0.13	1138	751	2.941	
K17-448	927.1	927.1	0	2492	1551	2.648	SG RHY Standard
K17-448	927.1	927.22	0.12	947	598	2.713	
K17-448	937.3	937.45	0.15	1215	782	2.806	
K17-448	949.03	949.03	0	2491	1553	2.656	SG RHY Standard
K17-448	949.03	949.14	0.11	900	569	2.719	
K17-448	959.09	959.18	0.09	831	528	2.743	
K17-448	970.02	970.16	0.14	1133	723	2.763	
K17-448	978.77	978.92	0.15	1019	655	2.799	
K17-448	988.91	989	0.09	740	479	2.835	
K17-448	997.76	997.92	0.16	1503	976	2.852	
K17-448	1007.74	1007.84	0.1	875	576	2.926	
K17-449	0	0	0	2491	1548	2.642	SG RHY Standard
K17-449	8.32	8.45	0.13	1056	684	2.839	
K17-449	18.72	18.85	0.13	1068	666	2.657	
K17-449	32.43	32.55	0.12	937	582	2.639	
K17-449	40.13	40.27	0.14	1141	724	2.736	
K17-449	52.87	53	0.13	1078	687	2.757	
K17-449	61.86	62	0.14	1167	751	2.805	
K17-449	71	71.13	0.13	1052	669	2.747	
K17-449	81.95	82.18	0.23	1000	639	2.77	
K17-449	91.79	91.92	0.13	1147	737	2.798	
K17-449	101	101.17	0.17	1446	923	2.765	
K17-449	101.17	101.17	0	2492	1550	2.645	SG RHY standard
K17-449	112.78	112.89	0.11	942	606	2.804	
K17-449	122.79	122.95	0.16	1326	849	2.78	
K17-449	131.09	131.24	0.15	1266	811	2.782	
K17-449	141.33	141.47	0.14	1218	793	2.866	
K17-449	152.57	152.7	0.13	1129	719	2.754	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-449	162.64	162.76	0.12	1036	651	2.691	
K17-449	171.24	171.36	0.12	1004	641	2.766	
K17-449	181.06	181.22	0.16	1142	732	2.785	
K17-449	191.13	191.27	0.14	1157	743	2.795	
K17-449	201.17	201.34	0.17	1495	971	2.853	
K17-449	201.34	201.34	0	2492	1550	2.645	SG RHY Standard
K17-449	211.21	211.38	0.17	1359	873	2.796	
K17-449	221	221.14	0.14	1263	792	2.682	
K17-449	231.05	231.24	0.19	1570	1016	2.834	
K17-449	242	242.14	0.14	1206	751	2.651	
K17-449	251	251.12	0.12	966	622	2.808	
K17-449	261.31	261.47	0.16	1194	753	2.707	
K17-449	270.91	271.02	0.11	873	554	2.737	
K17-449	282.42	282.53	0.11	919	595	2.836	
K17-449	290	290.12	0.12	933	589	2.712	
K17-449	301.9	302	0.1	829	532	2.791	
K17-449	311.52	311.64	0.12	1036	672	2.846	
K17-449	320.99	321.12	0.13	1281	833	2.859	
K17-449	332.08	332.2	0.12	938	597	2.751	
K17-449	340.66	340.77	0.11	871	548	2.697	
K17-449	349.66	349.76	0.1	803	512	2.759	
K17-449	349.76	349.76	0	2492	1551	2.648	SG RHY Standard
K17-449	362.16	362.28	0.12	959	620	2.829	
K17-449	369.5	369.6	0.1	785	501	2.764	
K17-449	381.8	381.9	0.1	814	531	2.876	
K17-449	389.32	389.42	0.1	910	590	2.844	
K17-449	400.88	401	0.12	927	600	2.835	
K17-449	410.68	410.84	0.16	1353	849	2.685	
K17-449	420.65	420.75	0.1	758	493	2.86	
K17-449	430.84	430.94	0.1	805	524	2.865	
K17-449	439.43	439.56	0.13	1086	701	2.821	
K17-449	439.56	439.56	0	2493	1551	2.646	SG RHY Standard
K17-449	449.51	449.66	0.15	1169	742	2.738	
K17-449	461	461.14	0.14	1103	703	2.758	
K17-449	467.89	468.15	0.26	2258	1462	2.837	
K17-449	477.95	478.13	0.18	1517	1003	2.951	
K17-449	487.72	489	1.28	2441	1594	2.882	
K17-449	497.77	498.06	0.29	2426	1587	2.892	
K17-449	507.03	507.2	0.17	1502	969	2.818	
K17-449	516.99	517.16	0.17	1342	846	2.706	
K17-449	527.8	528.04	0.24	1926	1212	2.697	
K17-449	536.86	537.08	0.22	1875	1217	2.85	
K17-449	537.08	537.08	0	2492	1551	2.648	SG RHY standard
K17-449	546.85	547.09	0.24	2037	1352	2.974	
K17-449	557	557.2	0.2	1636	1051	2.797	
K17-449	566.91	567.09	0.18	1466	976	2.992	
K17-449	576.98	577.17	0.19	1468	929	2.724	
K17-449	585.95	586.17	0.22	1634	1030	2.705	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-449	596.05	596.27	0.22	1923	1253	2.87	
K17-449	608.82	609.09	0.27	2147	1349	2.69	
K17-449	615.74	616.05	0.31	2385	1512	2.732	
K17-449	624.75	624.94	0.19	1508	968	2.793	
K17-449	635.13	635.47	0.34	2722	1770	2.859	
K17-449	635.47	635.47	0	2492	1551	2.648	SG RHY Standard
K17-449	644.92	645.11	0.19	1547	983	2.743	
K17-449	654.8	655	0.2	1054	668	2.731	
K17-449	663.82	664.03	0.21	1713	1074	2.681	
K17-449	674	674.21	0.21	1643	1022	2.646	
K17-449	683.18	683.35	0.17	1296	812	2.678	
K17-449	683.35	683.35	0	2491	1549	2.644	SG RHY Standard
K17-449	691.95	692.12	0.17	1423	914	2.796	
K17-449	702.9	703.06	0.16	1326	875	2.94	
K17-449	711.87	712.19	0.32	2723	1768	2.851	
K17-449	722.06	722.27	0.21	1627	1042	2.781	
K17-449	732	732.2	0.2	1735	1135	2.892	
K17-449	741.67	741.84	0.17	1271	805	2.727	
K17-449	749.83	750.03	0.2	1497	933	2.654	
K17-449	760.86	761	0.14	1248	820	2.916	
K17-449	770.2	770.42	0.22	1720	1114	2.838	
K17-449	780.9	781.13	0.23	2005	1311	2.889	
K17-449	781.13	781.13	0	2493	1551	2.646	SG RHY Standard
K17-449	790.38	790.54	0.16	1276	822	2.811	800 m E.O.H.
K17-450	9.8	10	0.2	1883	1190	2.717	
K17-450	19.9	20.1	0.2	1736	1116	2.8	
K17-450	29.9	30.1	0.2	2038	1286	2.71	
K17-450	40	40.2	0.2	1839	1179	2.786	
K17-450	50.1	50.3	0.2	1681	1095	2.869	
K17-450	59.8	60	0.2	1883	1204	2.773	
K17-450	69.9	70.1	0.2	1445	929	2.8	
K17-450	79.9	80.1	0.2	1846	1199	2.853	
K17-450	89.8	90	0.2	2240	1425	2.748	
K17-450	99.8	100	0.2	1806	1154	2.77	
K17-450	109.8	110	0.2	2007	1295	2.819	
K17-450	119.8	120	0.2	1582	1011	2.771	
K17-450	129.9	130.1	0.2	2256	1428	2.725	
K17-450	139	139.2	0.2	1671	1051	2.695	
K17-450	144.6	144.6	0	2491	1550	2.647	SG RHY Standard
K17-450	144.6	145.15	0.55	2331	1513	2.85	B00267889
K17-450	145.15	146.08	0.93	3897	2517	2.824	B00267891
K17-450	146.08	147.17	1.09	4959	3313	3.013	B00267892
K17-450	147.17	147.77	0.6	2574	1858	3.595	B00267893
K17-450	147.77	147.77	0	1594	1250	4.634	SG Min Standard
K17-450	147.77	148.34	0.57	2882	2003	3.279	B00267894
K17-450	148.34	149	0.66	4472	3474	4.481	B00267895
K17-450	149	150	1	6195	4775	4.363	B00267896
K17-450	150	151.04	1.04	6859	5306	4.417	B00267897

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-450	151.04	152	0.96	6017	4653	4.411	B00267898
K17-450	152	153	1	6987	5428	4.482	B00267899
K17-450	153	154	1	6634	5168	4.525	B00267902
K17-450	154	155	1	6286	4906	4.555	B00267903
K17-450	155	156	1	6763	5243	4.449	B00267904
K17-450	156	156.85	0.85	5742	4474	4.528	B00267905
K17-450	156.85	156.85	0	1594	1250	4.634	SG Min Standard
K17-450	156.85	157.6	0.75	4006	2873	3.536	B00267906
K17-450	157.6	158.36	0.76	4328	3217	3.896	B00267907
K17-450	158.36	159.02	0.66	4354	3376	4.452	B00267908
K17-450	159.02	160	0.98	6032	4656	4.384	B00267909
K17-450	160	161	1	7043	5427	4.358	B00267911
K17-450	161	162	1	6506	4998	4.314	B00267912
K17-450	162	162.87	0.87	5005	3772	4.059	B00267913
K17-450	162.87	163.8	0.93	5989	4608	4.337	B00267914
K17-450	163.8	164.78	0.98	6322	4910	4.477	B00267915
K17-450	164.78	164.78	0	1594	1249	4.62	SG Min Standard
K17-450	164.78	165.64	0.86	3628	2581	3.465	B00267916
K17-450	165.64	166.56	0.92	4089	2658	2.857	B00267917
K17-450	166.56	166.56	0	2491	1550	2.647	SG RHY Standard
K17-450	166.56	167.38	0.82	3383	2194	2.845	B00267918
K17-450	167.38	168.38	1	4235	2761	2.873	B00267919
K17-450	168.38	169.24	0.86	3816	2451	2.796	B00267921
K17-450	169.24	170.2	0.96	3472	2238	2.814	B00267922
K17-450	170.2	171.14	0.94	3720	2402	2.822	B00267923
K17-450	171.14	171.14	0	2591	1550	2.489	SG RHY Standard
K17-450	179.8	180	0.2	2653	1753	2.948	
K17-451	0	0	0	2492	1550	2.645	SG RHY Standard
K17-451	7.17	7.3	0.13	1019	641	2.696	
K17-452	0	0	0	2492	1550	2.645	SG RHY Standard
K17-452	8.01	8.12	0.11	832	519	2.658	
K17-452	17.57	17.75	0.18	1561	997	2.768	
K17-452	25.93	26.05	0.12	992	630	2.74	
K17-452	36.21	36.33	0.12	1060	691	2.873	
K17-453	0	0	0	2492	1550	2.645	SG RHY Standard
K17-453	2.98	3.17	0.19	1503	963	2.783	
K17-454	0	0	0	2492	1550	2.645	SG RHY Standard
K17-454	6	6.16	0.16	1197	761	2.745	
K17-455	0	0	0	2492	1550	2.645	SG RHY Standard
K17-455	9.23	9.49	0.26	1986	1289	2.849	
K17-456	0	0	0	2491	1549	2.644	SG RHY Standard
K17-456	6.47	6.58	0.11	972	642	2.945	
K17-457	0	0	0	2491	1549	2.644	SG RHY Standard
K17-457	6.16	6.25	0.09	763	506	2.969	
K17-458	0	0	0	2492	1550	2.645	SG RHY Standard
K17-458	3.1	3.21	0.11	962	624	2.846	
K17-458	12.6	12.71	0.11	899	576	2.783	
K17-458	22.77	23	0.23	1638	1056	2.814	

Hole	From (m)	To (m)	Length (m)	Dry Weight (g)	Wet Weight (g)	Bulk Density	Comments
K17-458	32.3	32.44	0.14	1131	739	2.885	
K17-459	0	0	0	2492	1550	2.645	SG RHY Standard
K17-459	3.11	3.23	0.12	985	638	2.839	
K17-459	12.82	13.13	0.31	2681	1736	2.837	
K17-459	23.37	23.46	0.09	918	586	2.765	
K17-459	33.8	33.96	0.16	1405	907	2.821	
K17-460	0	0	0	2492	1550	2.645	SG RHY Standard
K17-460	3.8	4.08	0.28	2237	1430	2.772	
K17-460	13.55	13.66	0.11	911	585	2.794	
K17-460	22.32	22.54	0.22	1753	1173	3.022	
K17-460	32.97	33.16	0.19	1843	1176	2.763	
K17-461	0	0	0	2493	1551	2.646	SG RHY Standard
K17-461	5.08	5.3	0.22	1820	1206	2.964	
K17-461	15.03	15.18	0.15	1347	867	2.806	
K17-461	24.88	25.08	0.2	1731	1118	2.824	
K17-461	33.66	33.8	0.14	1100	698	2.736	
K17-462	0	0	0	742	482	2.854	SG RHY Standard
K17-462	6.81	6.89	0.08	742	482	2.854	
K17-462	14.99	15.26	0.27	2312	1477	2.769	
K17-462	23.87	24	0.13	1137	745	2.901	
K17-462	33.51	33.71	0.2	1719	1110	2.823	
K17-463	0	0	0	2491	1549	2.644	SG RHY Standard
K17-463	9.24	9.42	0.18	1446	940	2.858	
K17-464	0	0	0	2492	1550	2.645	SG RHY Standard
K17-464	4.89	5.09	0.2	1520	961	2.719	
K17-464	14.66	14.78	0.12	1044	667	2.769	
K17-464	25.99	26.13	0.14	1126	719	2.767	
K17-464	34.13	34.27	0.14	1122	703	2.678	
K17-465	0	0	0	2491	1549	2.644	SG RHY Standard
K17-465	6.16	6.26	0.1	816	506	2.632	
K17-466	0	0	0	2492	1550	2.645	SG RHY Standard
K17-466	7.55	7.66	0.11	1030	644	2.668	
K17-466	13.95	14.08	0.13	947	602	2.745	

Appendix S: Drill Core Certificates of Analysis

This appendix contains all of the certificates of analysis (COA) pertaining to geotechnical, hydrogeological, and exploration drilling at the KZK Project during 2017. Elements analyzed for all DDHs include Ag, Au, Cu, Fe, Pb, Zn, S, As, Ba, Bi, Hg, Sb and Se. COAs are listed in alphanumeric order, with the first page of each COA indicated in the Page Number column in Table S-1 below.

Table S-1: Table of contents for COAs in this appendix

Certificate	Elements Assayed	Drill holes	Target	Samples (#)	Page Number
VC172527	Au, Ba, Cu, Fe, Pb, S, Zn, As, Sb, Bi, Hg, Se, Ag	K17-420	ABM	15	1
VC172528	Au, Ba, Cu, Fe, Pb, S, Zn, As, Sb, Bi, Hg, Se, Ag	K17-422	ABM	28	4
VC172529	Au, Ba, Cu, Fe, Pb, S, Zn, As, Sb, Bi, Hg, Se, Ag	K17-424	ABM	11	7
VC172530	Au, Ba, Cu, Fe, Pb, S, Zn, As, Sb, Bi, Hg, Se, Ag	K17-430	ABM	10	10
VC172531	Au, Ba, Cu, Fe, Pb, S, Zn, As, Sb, Bi, Hg, Se, Ag	K17-437	Krakatoa	13	13
VC172531R	Au, Ba, Cu, Fe, Pb, S, Zn, As, Sb, Bi, Hg, Se, Ag	K17-437	Krakatoa	3	16
VC172817	Au, Ba, Cu, Fe, Pb, S, Zn, As, Sb, Bi, Hg, Se, Ag	K17-442	Exploration	1	18
VC173045	Au, Ba, Cu, Fe, Pb, S, Zn, As, Sb, Bi, Hg, Se, Ag	K17-447	Exploration	5	21
VC173475	Au, Ba, Cu, Fe, Pb, S, Zn, As, Sb, Bi, Hg, Se, Ag	K17-448	Exploration	73	24
VC174016	Au, Ba, Cu, Fe, Pb, S, Zn, As, Sb, Bi, Hg, Se, Ag	K17-449, K17-450	Exploration, ABM	94	31
VC174016R	Au	K17-449, K17-450	Exploration, ABM	8	43

Certificate of Analysis
Work Order : VC172527
[Report File No.: 0000024645]

Date: September 14, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01001
Project No.: KZK
Samples: 15
Received: Aug 16, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
15	G_LOG02	Pre-preparation processing, sorting, logging, boxing
15	G_WGH79	Weighing of samples and reporting of weights
15	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
1	G_SCR34	Wet Screening 75µm, Evaluation of Prep
15	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
15	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
15	GE_IC14A	Aqua Regia digestion/ICP-AES finish
15	GE_IC14M	Aqua Regia digestion/ICP-MS finish
15	GE_AAS12E	@ Ag by AAS after Aqua Regia digest, 2g Vol 50

Storage: Pulp & Reject

PULP STORAGE	:	STORE FOR 90 DAYS
REJECT STORAGE	:	STORE FOR 30 DAYS

Comments:

S and Ba data is informational only.

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Final : VC172527 Order: PO# BMC17-01001

Report File No.: 0000024645

Element	WtKg	M75um	@Au	Ba	@Cu	Fe	@Pb	S
Method	G_WGH79	G_SCR34	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	0.01	5	0.01	0.01	0.05	0.01	0.1
Units	kg	%	ppb	%	%	%	%	%
D00004501	4.560	90.6	<5	0.09	<0.01	1.91	<0.01	1.0
D00004502	6.075	N.A.	<5	0.14	<0.01	2.17	0.03	1.1
D00004503	3.330	N.A.	<5	0.14	<0.01	2.24	<0.01	0.5
D00004504	6.005	N.A.	<5	0.05	0.02	5.32	0.03	0.9
D00004505	5.475	N.A.	12	0.02	0.33	8.87	0.30	2.0
D00004506	6.810	N.A.	31	0.08	0.37	6.10	0.19	2.7
D00004507	4.845	N.A.	8	0.06	0.07	7.52	0.14	1.2
D00004508	6.415	N.A.	21	0.13	0.25	8.97	0.27	2.6
D00004509	4.675	N.A.	6	0.13	0.11	9.86	0.17	1.7
D00004510	3.335	N.A.	<5	<0.01	<0.01	0.17	<0.01	0.2
D00004511	4.190	N.A.	7	0.09	0.10	7.85	0.10	1.0
D00004512	4.550	N.A.	198	0.06	1.84	22.3	0.48	17.9
D00004513	5.200	N.A.	8	0.42	0.04	2.26	<0.01	0.2
D00004514	6.640	N.A.	<5	0.56	<0.01	2.19	<0.01	0.2
D00004515	4.580	N.A.	<5	0.38	0.02	4.09	0.02	0.4
*Rep D00004501			<5					
*Std OREAS222			1170					
*Blk BLANK			<5					
*Std AMIS0474			166					
*Rep D00004502				0.14	<0.01	2.22	0.03	1.1
*Std OREAS131B				0.08	0.02	5.73	1.82	4.8
*Std RM183-89				3.17	<0.01	34.7	0.03	0.8
*Blk BLANK				<0.01	<0.01	<0.05	<0.01	<0.1

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Final : VC172527 Order: PO# BMC17-01001

Report File No.: 0000024645

Element	@Zn	As	Sb	@Bi	@Hg	@Se	@Ag
Method	GO_ICP90Q	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E
Det.Lim.	0.01	3	5	0.02	0.01	1	0.3
Units	%	ppm	ppm	ppm	ppm	ppm	g/t
D00004501	0.04	4	<5	0.53	0.04	1	0.3
D00004502	0.07	6	<5	1.22	0.12	4	1.0
D00004503	0.04	71	<5	0.38	0.06	5	<0.3
D00004504	1.04	77	<5	1.63	0.53	22	0.6
D00004505	0.80	144	<5	19.8	0.36	52	14.1
D00004506	2.56	343	8	33.2	1.21	67	17.5
D00004507	1.15	94	<5	21.1	0.53	45	9.9
D00004508	2.64	8	<5	40.8	1.42	75	19.8
D00004509	0.77	17	<5	16.8	0.58	27	8.3
D00004510	0.03	<3	<5	0.47	<0.01	<1	<0.3
D00004511	0.41	6	<5	22.1	0.25	20	8.6
D00004512	2.06	181	73	159	3.46	226	79.8
D00004513	0.03	3	<5	1.42	0.21	2	0.9
D00004514	0.01	<3	<5	0.89	0.13	2	<0.3
D00004515	0.06	3	<5	4.84	0.19	11	2.3
*Rep D00004502		6	<5	1.24	0.14	4	
*Std OREAS601		327	20	21.4	N.A.	15	
*Std DS-1		6840	N.A.	N.A.	77.1	N.A.	
*Blk BLANK		<3	<5	<0.02	<0.01	<1	
*Rep D00004513							0.9
*Std OREAS621							69.3
*Blk BLANK							<0.3
*Rep D00004502	0.07						
*Std OREAS131B	2.96						
*Std RM183-89	<0.01						
*Blk BLANK	<0.01						

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Certificate of Analysis
Work Order : VC172528
[Report File No.: 0000024646]

Date: September 14, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01002
Project No.: KZK
Samples: 28
Received: Aug 16, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
28	G_LOG02	Pre-preparation processing, sorting, logging, boxing
28	G_WGH79	Weighing of samples and reporting of weights
25	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
28	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
28	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
28	GE_IC14A	Aqua Regia digestion/ICP-AES finish
28	GE_IC14M	Aqua Regia digestion/ICP-MS finish
28	GE_AAS12E	@ Ag by AAS after Aqua Regia digest, 2g Vol 50

Storage: Pulp & Reject

PULP STORAGE	:	STORE FOR 90 DAYS
REJECT STORAGE	:	STORE FOR 30 DAYS

Comments:

S and Ba data is informational only.
Se over limits were done by dilution and are informational only.

Certified By :

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	@Au	Ba	@Cu	Fe	@Pb	S	@Zn
Method	G_WGH79	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	5	0.01	0.01	0.05	0.01	0.1	0.01
Units	kg	ppb	%	%	%	%	%	%
D00004516	4.360	<5	0.08	0.02	1.93	0.06	0.9	0.21
D00004517	5.100	6	0.10	<0.01	2.80	0.03	0.3	0.09
D00004518	6.175	<5	0.11	0.02	2.76	0.01	0.3	0.08
D00004519	4.470	351	0.02	2.76	23.4	0.11	7.9	0.26
D00004520	0.145	306	<0.01	13.9	27.7	0.03	29.2	0.40
D00004521	0.155	823	0.05	0.47	19.9	0.31	17.9	1.13
D00004522	3.815	743	0.04	6.35	28.3	0.16	14.1	0.42
D00004523	6.685	2210	<0.01	17.4	33.9	0.06	27.3	1.48
D00004524	3.930	538	0.04	5.59	28.5	0.34	16.7	0.80
D00004525	4.720	5	0.20	0.03	3.18	0.02	0.6	0.28
D00004526	4.075	11	0.18	0.07	3.84	0.09	1.5	0.56
D00004527	4.415	39	0.17	0.03	4.79	0.26	1.9	1.08
D00004528	3.655	6	0.19	0.05	3.26	0.08	0.7	0.21
D00004529	4.375	26	0.23	0.43	5.12	0.04	2.0	0.05
D00004530	2.910	<5	<0.01	<0.01	0.08	<0.01	0.2	<0.01
D00004531	5.640	56	0.04	0.74	16.2	0.04	2.5	0.12
D00004532	5.140	55	0.03	0.46	15.4	0.08	2.3	0.12
D00004533	4.540	343	<0.01	1.93	20.4	0.20	4.6	0.49
D00004534	4.175	975	0.02	4.79	16.8	0.38	8.2	0.85
D00004535	4.070	368	0.06	1.59	23.4	0.42	8.2	0.64
D00004536	6.125	47	0.09	0.45	19.0	0.72	5.7	2.19
D00004537	4.735	46	0.08	0.68	18.7	0.43	6.6	2.68
D00004538	5.270	102	0.05	1.79	18.7	0.23	4.6	0.60
D00004539	1.955	<5	0.17	<0.01	3.50	<0.01	0.2	<0.01
D00004540	0.135	839	0.04	0.46	19.7	0.31	18.5	1.12
D00004541	6.010	10	0.03	0.17	7.41	0.02	0.8	0.38
D00004542	4.785	28	0.03	0.41	7.00	0.02	1.4	0.13
D00004543	6.220	12	0.03	0.16	9.34	<0.01	0.6	0.17
*Rep D00004528		7						
*Std OXN117		7590						
*Std OREAS222		1250						
*Blk BLANK		<5						
*Rep D00004532			0.03	0.45	15.2	0.08	2.3	0.13

Element	Ba	@Cu	Fe	@Pb	S	@Zn
Method	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	0.01	0.05	0.01	0.1	0.01
Units	%	%	%	%	%	%
*Std OREAS134A	0.14	0.13	11.9	12.9	19.6	17.1
*Std RM183-89	3.11	0.01	35.7	0.03	0.8	<0.01
*Blk BLANK	<0.01	<0.01	<0.05	<0.01	<0.1	<0.01

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Final : VC172528 Order: PO# BMC17-01002

Report File No.: 0000024646

Element	As	Sb	@Bi	@Hg	@Se	@Ag
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E
Det.Lim.	3	5	0.02	0.01	1	0.3
Units	ppm	ppm	ppm	ppm	ppm	g/t
D00004516	30	<5	1.89	0.15	15	2.2
D00004517	28	<5	4.02	0.03	26	1.8
D00004518	<3	<5	2.96	0.05	11	1.1
D00004519	19	<5	241	0.24	281	39.6
D00004520	217	<5	6.21	0.95	221	21.4
D00004521	1340	92	21.6	8.51	116	43.2
D00004522	51	<5	308	0.67	576	83.7
D00004523	11	<5	219	2.27	1220	202
D00004524	5	<5	503	0.81	806	98.6
D00004525	<3	<5	6.35	0.12	18	2.0
D00004526	<3	<5	10.9	0.21	65	4.4
D00004527	500	<5	42.2	0.48	188	17.2
D00004528	<3	<5	11.3	0.11	50	4.7
D00004529	<3	<5	22.3	0.05	46	8.8
D00004530	5	<5	0.03	<0.01	<1	<0.3
D00004531	3	<5	40.6	0.15	83	15.5
D00004532	4	<5	69.7	0.15	113	20.8
D00004533	7	<5	189	0.78	232	64.0
D00004534	10	<5	284	1.64	310	157
D00004535	8	<5	170	0.92	329	67.9
D00004536	4	<5	77.5	1.67	151	36.5
D00004537	4	<5	79.0	1.93	97	33.4
D00004538	6	<5	60.4	0.66	156	34.4
D00004539	<3	<5	1.14	<0.01	1	0.3
D00004540	1350	94	22.1	8.52	123	44.4
D00004541	10	<5	8.03	0.15	15	3.5
D00004542	4	<5	18.7	0.06	23	6.5
D00004543	7	<5	21.7	0.05	8	1.4
*Rep D00004523	7	<5	223	2.36	1260	
*Std OREAS601	291	18	19.9	N.A.	12	
*Std OREAS621	67	107	3.82	3.85	5	
*Blk BLANK	<3	<5	<0.02	<0.01	<1	
*Rep D00004528						4.6
*Std OREAS621						68.7
*Blk BLANK						<0.3

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Certificate of Analysis
Work Order : VC172529
[Report File No.: 0000024647]

Date: September 14, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01003
Project No.: KZK
Samples: 11
Received: Aug 16, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
11	G_LOG02	Pre-preparation processing, sorting, logging, boxing
11	G_WGH79	Weighing of samples and reporting of weights
11	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
11	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
11	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
11	GE_IC14A	Aqua Regia digestion/ICP-AES finish
11	GE_IC14M	Aqua Regia digestion/ICP-MS finish
11	GE_AAS12E	@ Ag by AAS after Aqua Regia digest, 2g Vol 50

Storage: Pulp & Reject

PULP STORAGE	:	STORE FOR 90 DAYS
REJECT STORAGE	:	STORE FOR 30 DAYS

Comments:

S and Ba data is informational only.

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Final : VC172529 Order: PO# BMC17-01003

Report File No.: 0000024647

Element	WtKg	@Au	Ba	@Cu	Fe	@Pb	S	@Zn
Method	G_WGH79	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	5	0.01	0.01	0.05	0.01	0.1	0.01
Units	kg	ppb	%	%	%	%	%	%
D00004544	5.380	<5	0.14	0.10	2.53	0.07	0.8	0.36
D00004545	6.985	17	0.15	0.84	7.10	0.02	3.8	1.97
D00004546	4.475	6	0.10	0.15	9.78	0.02	4.7	0.19
D00004547	5.275	203	0.03	1.74	17.2	0.34	16.1	10.4
D00004548	7.060	136	0.03	0.73	35.8	0.02	26.0	7.16
D00004549	6.195	411	0.02	2.51	41.3	0.03	27.2	0.52
D00004550	2.015	<5	<0.01	<0.01	0.16	<0.01	0.3	<0.01
D00004551	3.715	296	0.11	1.93	27.6	0.05	14.4	0.25
D00004552	6.245	<5	0.15	0.03	8.83	<0.01	0.9	0.14
D00004553	4.680	9	0.23	0.02	3.97	<0.01	1.4	0.01
D00004554	5.545	9	0.24	<0.01	1.51	0.01	0.4	<0.01
*Rep D00004545		18						
*Std OREAS222		1170						
*Blk BLANK		<5						
*Std AMIS0474		166						
*Rep D00004546			0.10	0.15	9.86	0.04	4.8	0.19
*Std OREAS131B			0.08	0.02	5.73	1.82	4.8	2.96
*Std RM183-89			3.17	<0.01	34.7	0.03	0.8	<0.01
*Blk BLANK			<0.01	<0.01	<0.05	<0.01	<0.1	<0.01

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Final : VC172529 Order: PO# BMC17-01003

Report File No.: 0000024647

Element	As	Sb	@Bi	@Hg	@Se	@Ag
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E
Det.Lim.	3	5	0.02	0.01	1	0.3
Units	ppm	ppm	ppm	ppm	ppm	g/t
D00004544	<3	<5	1.26	0.15	16	2.2
D00004545	<3	<5	9.82	0.58	103	14.3
D00004546	<3	<5	10.8	0.02	93	4.2
D00004547	3	<5	125	2.76	502	53.1
D00004548	57	<5	32.3	3.14	466	8.7
D00004549	56	<5	66.8	0.60	531	22.4
D00004550	5	<5	0.09	0.02	1	<0.3
D00004551	10	<5	50.7	0.26	245	19.8
D00004552	261	<5	4.18	0.04	13	1.1
D00004553	488	<5	14.7	0.08	12	1.5
D00004554	23	<5	5.59	0.02	4	1.1
*Rep D00004548	56	<5	32.2	3.07	474	
*Std OREAS601	327	20	21.4	N.A.	15	
*Std DS-1	6840	N.A.	N.A.	77.1	N.A.	
*Blk BLANK	<3	<5	<0.02	0.01	<1	
*Rep D00004552						1.1
*Std OREAS621						69.3
*Blk BLANK						<0.3

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Certificate of Analysis
Work Order : VC172530
[Report File No.: 0000024648]

Date: September 14, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01004
Project No.: KZK
Samples: 10
Received: Aug 16, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
10	G_LOG02	Pre-preparation processing, sorting, logging, boxing
10	G_WGH79	Weighing of samples and reporting of weights
9	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
1	G_SCR34	Wet Screening 75µm, Evaluation of Prep
10	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
10	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
10	GE_IC14A	Aqua Regia digestion/ICP-AES finish
10	GE_IC14M	Aqua Regia digestion/ICP-MS finish
10	GE_AAS12E	@ Ag by AAS after Aqua Regia digest, 2g Vol 50

Storage: Pulp & Reject

PULP STORAGE	:	STORE FOR 90 DAYS
REJECT STORAGE	:	STORE FOR 30 DAYS

Comments:

S and Ba data is informational only.

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Final : VC172530 Order: PO# BMC17-01004

Report File No.: 0000024648

Element	WtKg	M75um	@Au	Ba	@Cu	Fe	@Pb	S
Method	G_WGH79	G_SCR34	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	0.01	5	0.01	0.01	0.05	0.01	0.1
Units	kg	%	ppb	%	%	%	%	%
D00004555	4.845	N.A.	<5	0.16	<0.01	3.87	<0.01	1.2
D00004556	4.655	N.A.	<5	0.14	<0.01	3.96	<0.01	1.2
D00004557	3.405	N.A.	<5	0.14	<0.01	3.09	0.01	0.4
D00004558	2.235	N.A.	31	0.14	0.08	3.64	<0.01	0.6
D00004559	4.680	N.A.	43	0.13	0.22	9.81	<0.01	2.0
D00004560	0.135	N.A.	773	0.05	0.45	20.4	0.31	17.7
D00004561	2.960	N.A.	33	0.16	0.20	4.25	0.02	1.1
D00004562	3.875	N.A.	8	0.10	0.07	3.08	0.01	0.7
D00004563	3.740	N.A.	<5	0.10	<0.01	2.18	<0.01	0.7
D00004564	5.530	94.2	<5	0.11	<0.01	2.88	<0.01	1.5
*Rep D00004557			<5					
*Std OREAS222			1170					
*Blk BLANK			<5					
*Std AMIS0474			166					
*Rep D00004559				0.13	0.21	9.78	<0.01	2.0
*Std OREAS131B				0.08	0.02	5.73	1.82	4.8
*Std RM183-89				3.17	<0.01	34.7	0.03	0.8
*Blk BLANK				<0.01	<0.01	<0.05	<0.01	<0.1

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Final : VC172530 Order: PO# BMC17-01004

Report File No.: 0000024648

Element	@Zn	As	Sb	@Bi	@Hg	@Se	@Ag
Method	GO_ICP90Q	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E
Det.Lim.	0.01	3	5	0.02	0.01	1	0.3
Units	%	ppm	ppm	ppm	ppm	ppm	g/t
D00004555	0.05	<3	<5	0.38	0.04	<1	<0.3
D00004556	0.04	<3	<5	0.36	<0.01	1	<0.3
D00004557	0.03	33	<5	1.38	0.02	2	<0.3
D00004558	0.09	17	<5	4.38	0.03	7	2.5
D00004559	0.08	35	<5	7.22	0.10	17	2.6
D00004560	1.12	1340	90	24.5	8.89	125	44.3
D00004561	0.04	11	<5	9.06	0.08	11	5.2
D00004562	0.01	<3	<5	2.47	0.02	5	1.7
D00004563	<0.01	<3	<5	1.13	<0.01	3	0.6
D00004564	<0.01	<3	<5	0.76	0.01	3	0.8
*Rep D00004557		32	<5	1.31	0.03	2	
*Std OREAS601		327	20	21.4	N.A.	15	
*Std DS-1		6840	N.A.	N.A.	77.1	N.A.	
*Blk BLANK		<3	<5	<0.02	<0.01	<1	
*Rep D00004564							0.5
*Std OREAS621							69.3
*Blk BLANK							<0.3
*Rep D00004559	0.08						
*Std OREAS131B	2.96						
*Std RM183-89	<0.01						
*Blk BLANK	<0.01						

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Certificate of Analysis
Work Order : VC172531
[Report File No.: 0000024627]

Date: September 13, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01005
Project No.: KZK
Samples: 13
Received: Aug 16, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
13	G_LOG02	Pre-preparation processing, sorting, logging, boxing
13	G_WGH79	Weighing of samples and reporting of weights
13	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
13	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
13	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
13	GE_IC14A	Aqua Regia digestion/ICP-AES finish
13	GE_IC14M	Aqua Regia digestion/ICP-MS finish
13	GE_AAS12E	@ Ag by AAS after Aqua Regia digest, 2g Vol 50
1	GO_FAG313	Ag FAS, Gravimetric, 30g
1	GO_XRF77B	Pyrosulphate fusion, XRF Base Metal package (0.2g)

Storage: Pulp & Reject

PULP STORAGE	:	STORE FOR 90 DAYS
REJECT STORAGE	:	STORE FOR 30 DAYS

Comments:

S and Ba data is informational only.
Lower limit for GO_FAG313 may be elevated due to reduced assay fraction size.

Certified By : _____

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Final : VC172531 Order: PO# BMC17-01005

Report File No.: 0000024627

Element	WtKg	@Au	Ba	@Cu	Fe	@Pb	S	@Zn
Method	G_WGH79	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	5	0.01	0.01	0.05	0.01	0.1	0.01
Units	kg	ppb	%	%	%	%	%	%
D00004565	6.445	24	0.35	<0.01	2.22	0.20	2.0	0.29
D00004566	2.370	7	0.26	<0.01	1.77	0.06	0.6	0.03
D00004567	2.710	13	0.38	<0.01	1.71	0.02	0.9	<0.01
D00004568	4.330	1350	0.02	0.49	29.1	4.45	37.5	10.4
D00004569	3.150	826	0.03	0.28	27.1	2.05	28.6	6.86
D00004570	2.870	15	<0.01	<0.01	0.41	0.08	0.6	0.14
D00004571	5.565	18	0.08	<0.01	7.75	0.05	0.4	0.10
D00004572	4.175	<5	0.23	<0.01	7.46	<0.01	0.2	<0.01
D00004573	5.030	32	0.62	<0.01	7.32	0.05	0.3	<0.01
D00004574	2.195	1590	>4.00	0.25	10.0	1.44	13.3	2.19
D00004575	4.185	13	0.85	<0.01	1.33	0.02	0.3	0.01
D00004576	4.840	<5	0.25	<0.01	2.18	<0.01	0.5	<0.01
D00004577	4.295	<5	0.29	<0.01	1.39	0.02	0.2	<0.01
*Rep D00004569		886						
*Std OREAS222		1170						
*Blk BLANK		<5						
*Std AMIS0474		166						
*Rep D00004568			0.02	0.49	28.9	4.44	37.1	10.3
*Std OREAS134A			0.14	0.13	11.9	12.9	19.6	17.1
*Std RM183-89			3.11	0.01	35.7	0.03	0.8	<0.01
*Blk BLANK			<0.01	<0.01	<0.05	<0.01	<0.1	<0.01

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Final : VC172531 Order: PO# BMC17-01005

Report File No.: 0000024627

Element	As	Sb	@Bi	@Hg	@Se	@Ag	Ag	Ba
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E	GO_FAG313	GO_XRF77B
Det.Lim.	3	5	0.02	0.01	1	0.3	10	0.2
Units	ppm	ppm	ppm	ppm	ppm	g/t	g/t	%
D00004565	23	9	0.72	0.98	2	9.12	N.A.	N.A.
D00004566	11	<5	0.18	0.09	<1	1.87	N.A.	N.A.
D00004567	15	<5	0.38	0.07	<1	0.87	N.A.	N.A.
D00004568	1780	223	31.4	26.1	180	260	269	N.A.
D00004569	2210	144	53.6	12.1	343	123	N.A.	N.A.
D00004570	38	7	0.59	0.49	3	3.81	N.A.	N.A.
D00004571	131	<5	1.03	0.19	3	3.14	N.A.	N.A.
D00004572	265	<5	0.06	0.02	<1	<0.30	N.A.	N.A.
D00004573	88	<5	0.21	0.17	2	2.93	N.A.	N.A.
D00004574	477	1130	3.51	12.8	32	220	N.A.	6.3
D00004575	17	<5	0.70	0.16	<1	1.77	N.A.	N.A.
D00004576	585	<5	0.26	0.03	<1	<0.30	N.A.	N.A.
D00004577	7	<5	1.04	0.05	<1	0.54	N.A.	N.A.
*Rep D00004567	14	<5	0.40	0.06	<1			
*Std OREAS601	291	18	19.9	N.A.	12			
*Std OREAS621	67	107	3.82	3.85	5			
*Blk BLANK	<3	<5	<0.02	0.01	<1			
*Std ME-1302							428	
*Blk BLANK							<10	
*Std CRM3594-86								10.3
*Blk BLANK								<0.2
*Rep D00004574								6.5
*Rep D00004568						261		
*Std OREAS621						68.7		
*Blk BLANK						<0.30		

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Certificate of Analysis
Work Order : VC172531R
[Report File No.: 0000024923]

Date: September 26, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01005
Project No.: KZK
Samples: 13
Received: Sep 15, 2017
Pages: Page 1 to 2
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
3	G_PUL45	Pulverize 250g, Cr Steel, 85% passing 75 microns
3	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
3	GE_AAS12E	@ Ag by AAS after Aqua Regia digest, 2g Vol 50
1	GO_FAG313	Ag FAS, Gravimetric, 30g

Storage: Pulp & Reject

PULP STORAGE : STORE FOR 90 DAYS
REJECT STORAGE : STORE FOR 30 DAYS

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Final : VC172531R Order: PO# BMC17-01005

Report File No.: 0000024923

Element	Ba	@Cu	Fe	@Pb	S	@Zn	@Ag	Ag
Method	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GE_AAS12E	GO_FAG313
Det.Lim.	0.01	0.01	0.05	0.01	0.1	0.01	0.3	10
Units	%	%	%	%	%	%	g/t	g/t
D00004565	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
D00004566	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
D00004567	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
D00004568	0.02	0.45	29.8	4.52	38.1	10.9	258	258
D00004569	0.03	0.26	27.4	2.16	28.0	6.92	120	N.A.
D00004570	<0.01	<0.01	0.06	<0.01	0.2	<0.01	<0.3	N.A.
D00004571	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
D00004572	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
D00004573	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
D00004574	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
D00004575	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
D00004576	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
D00004577	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std AMIS0268							194	
*Std ME-1302								426
*Blk BLANK								<10
*Std OREAS134A	0.14	0.13	11.9	12.9	19.6	17.6		
*Blk BLANK	<0.01	<0.01	<0.05	<0.01	<0.1	<0.01		
*Rep D00004570	<0.01	<0.01	0.06	<0.01	0.2	<0.01		
*Rep D00004568							251	
*Blk BLANK							<0.3	
*Rep D00004568								263

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Certificate of Analysis
Work Order : VC172817
[Report File No.: 0000024829]

Date: September 21, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01009
Project No.: KZK
Samples: 1
Received: Aug 28, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
1	G_LOG02	Pre-preparation processing, sorting, logging, boxing
1	G_WGH79	Weighing of samples and reporting of weights
1	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
1	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
1	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
1	GE_IC14A	Aqua Regia digestion/ICP-AES finish
1	GE_IC14M	Aqua Regia digestion/ICP-MS finish
1	GE_AAS12E	@ Ag by AAS after Aqua Regia digest, 2g Vol 50

Storage: Pulp & Reject

PULP STORAGE	:	STORE FOR 90 DAYS
REJECT STORAGE	:	STORE FOR 30 DAYS

Comments:

S and Ba data is informational only.

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Final : VC172817 Order: PO# BMC17-01009

Report File No.: 0000024829

Element	WtKg	@Au	Ba	@Cu	Fe	@Pb	S	@Zn
Method	G_WGH79	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	5	0.01	0.01	0.05	0.01	0.1	0.01
Units	kg	ppb	%	%	%	%	%	%
D00004578	2.025	<5	0.08	<0.01	8.32	<0.01	0.4	0.09
*Rep D00004578		<5						
*Std OXN117		7640						
*Blk BLANK		<5						
*Rep D00004578			0.08	<0.01	8.44	<0.01	0.4	0.10
*Std OREAS131B			0.08	0.02	5.89	1.87	4.7	3.04
*Blk BLANK			<0.01	<0.01	<0.05	<0.01	<0.1	<0.01

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Final : VC172817 Order: PO# BMC17-01009

Report File No.: 0000024829

Element	As	Sb	@Bi	@Hg	@Se	@Ag
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E
Det.Lim.	3	5	0.02	0.01	1	0.3
Units	ppm	ppm	ppm	ppm	ppm	g/t
D00004578	26	<5	0.10	0.06	<1	<0.30
*Rep D00004578						<0.30
*Std OREAS524						3.56
*Blk BLANK						<0.30
*Rep D00004578	24	<5	0.09	0.03	<1	
*Std OREAS621	80	113	4.06	3.95	7	
*Std OREAS934	N.A.	N.A.	564	N.A.	76	
*Blk BLANK	<3	<5	<0.02	<0.01	<1	

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Certificate of Analysis
Work Order : VC173045
[Report File No.: 0000024922]

Date: September 26, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01018
Project No.: KZK
Samples: 5
Received: Sep 12, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
5	G_LOG02	Pre-preparation processing, sorting, logging, boxing
5	G_WGH79	Weighing of samples and reporting of weights
4	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
5	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
5	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
5	GE_IC14A	Aqua Regia digestion/ICP-AES finish
5	GE_IC14M	Aqua Regia digestion/ICP-MS finish
5	GE_AAS12E	@ Ag by AAS after Aqua Regia digest, 2g Vol 50

Storage: Pulp & Reject

PULP STORAGE	:	STORE FOR 90 DAYS
REJECT STORAGE	:	STORE FOR 30 DAYS

Comments:

S and Ba data is informational only.

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Final : VC173045 Order: PO# BMC17-01018

Report File No.: 0000024922

Element	WtKg	@Au	Ba	@Cu	Fe	@Pb	S	@Zn
Method	G_WGH79	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	5	0.01	0.01	0.05	0.01	0.1	0.01
Units	kg	ppb	%	%	%	%	%	%
D00004579	7.010	<5	0.26	<0.01	11.2	<0.01	0.5	0.04
D00004580	0.155	794	0.05	0.47	19.8	0.31	17.9	1.14
D00004581	6.175	13	<0.01	0.24	24.5	0.02	14.5	0.30
D00004582	6.285	<5	0.26	0.02	8.38	<0.01	1.5	0.04
D00004583	2.285	<5	0.19	0.04	5.42	0.02	1.9	0.12
*Rep D00004579			0.26	<0.01	11.1	<0.01	0.5	0.04
*Std OREAS131B			0.08	0.02	5.90	1.86	4.9	3.03
*Std RM183-89			3.16	<0.01	35.7	0.03	0.9	<0.01
*Blk BLANK			<0.01	<0.01	<0.05	<0.01	<0.1	<0.01
*Rep D00004579		<5						
*Std OXN117		7570						
*Blk BLANK		<5						

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Final : VC173045 Order: PO# BMC17-01018

Report File No.: 0000024922

Element	As	Sb	@Bi	@Hg	@Se	@Ag
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E
Det.Lim.	3	5	0.02	0.01	1	0.3
Units	ppm	ppm	ppm	ppm	ppm	g/t
D00004579	28	<5	0.17	<0.01	1	<0.3
D00004580	1390	97	22.6	8.77	107	42.8
D00004581	9	<5	6.54	0.05	47	4.3
D00004582	15	<5	0.54	<0.01	3	0.4
D00004583	4	<5	3.21	<0.01	7	2.4
*Rep D00004581						3.9
*Std OREAS621						70.2
*Blk BLANK						<0.3
*Rep D00004582	13	<5	0.49	<0.01	3	
*Std OREAS621	80	113	4.06	3.95	7	
*Std OREAS934	N.A.	N.A.	564	N.A.	76	
*Blk BLANK	<3	<5	<0.02	<0.01	<1	

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Certificate of Analysis
Work Order : VC173475
[Report File No.: 0000025755]

Date: November 06, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01019
Project No.: KZK
Samples: 73
Received: Oct 2, 2017
Pages: Page 1 to 7
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
73	G_LOG02	Pre-preparation processing, sorting, logging, boxing
73	G_WGH79	Weighing of samples and reporting of weights
70	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
2	G_SCR34	Wet Screening 75µm, Evaluation of Prep
73	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
73	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
73	GE_IC14A	Aqua Regia digestion/ICP-AES finish
73	GE_IC14M	Aqua Regia digestion/ICP-MS finish
73	GE_AAS12E	@ Ag by AAS after Aqua Regia digest, 2g Vol 50

Storage: Pulp & Reject

PULP STORAGE	:	STORE FOR 90 DAYS
REJECT STORAGE	:	STORE FOR 30 DAYS

Comments:

S and Ba data is informational only.

Certified By : _____
John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	M75um	@Au	Ba	@Cu	Fe	@Pb	S
Method	G_WGH79	G_SCR34	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	0.01	5	0.01	0.01	0.05	0.01	0.1
Units	kg	%	ppb	%	%	%	%	%
D00004584	4.745	N.A.	11	0.07	0.02	2.91	<0.01	0.7
D00004585	3.980	97.6	27	0.03	0.02	9.06	<0.01	1.5
D00004586	4.710	N.A.	63	0.01	<0.01	9.46	<0.01	0.7
D00004587	4.560	N.A.	29	0.08	0.02	1.85	<0.01	0.5
D00004588	4.310	N.A.	<5	0.14	0.08	8.49	<0.01	3.1
D00004589	2.355	N.A.	6	0.06	0.03	4.87	<0.01	1.2
D00004590	0.900	N.A.	6	<0.01	<0.01	0.05	<0.01	0.1
D00004591	2.930	N.A.	6	0.06	0.04	9.71	<0.01	2.7
D00004592	4.595	N.A.	5	0.07	0.07	4.30	<0.01	1.2
D00004593	2.885	N.A.	<5	0.29	0.05	7.96	<0.01	3.2
D00004594	3.325	N.A.	9	0.19	0.04	6.83	<0.01	2.6
D00004595	4.555	N.A.	6	0.28	0.02	6.00	<0.01	1.5
D00004596	4.725	N.A.	<5	0.25	0.01	7.17	<0.01	2.1
D00004597	4.910	N.A.	7	0.24	0.02	9.31	<0.01	2.8
D00004598	5.605	N.A.	6	0.17	0.02	9.69	0.01	2.4
D00004599	6.585	N.A.	5	<0.01	<0.01	2.34	<0.01	0.6
D00004600	0.135	N.A.	873	0.05	0.46	19.5	0.30	17.5
B00267801	3.335	N.A.	7	0.12	0.02	7.91	<0.01	0.9
B00267802	3.380	N.A.	5	0.16	0.02	3.64	<0.01	0.7
B00267803	4.100	N.A.	6	0.14	<0.01	6.95	<0.01	0.2
B00267804	4.255	N.A.	5	0.17	<0.01	6.04	<0.01	0.1
B00267805	4.455	N.A.	6	0.18	0.03	7.40	<0.01	0.5
B00267806	3.400	N.A.	<5	0.06	0.04	10.6	<0.01	0.8
B00267807	4.100	N.A.	<5	0.19	<0.01	8.48	<0.01	<0.1
B00267808	3.365	N.A.	64	0.02	0.11	16.3	<0.01	3.3
B00267809	2.810	N.A.	73	0.04	0.17	18.9	<0.01	6.0
B00267810	0.950	N.A.	9	<0.01	<0.01	0.09	<0.01	<0.1
B00267811	4.930	N.A.	15	0.27	0.03	4.69	<0.01	1.0
B00267812	3.975	N.A.	24	0.27	0.02	5.09	<0.01	0.9
B00267813	4.215	N.A.	6	0.22	0.05	7.83	<0.01	0.4
B00267814	3.755	N.A.	11	0.24	<0.01	4.73	<0.01	0.1
B00267815	3.780	N.A.	<5	0.29	0.02	5.17	<0.01	0.4
B00267816	3.800	N.A.	8	0.14	0.02	6.33	<0.01	2.2
B00267817	2.765	N.A.	11	0.11	0.02	6.47	<0.01	2.8
B00267818	2.600	N.A.	<5	0.17	0.03	6.27	<0.01	1.8
B00267819	2.400	N.A.	7	0.18	0.02	10.5	<0.01	2.2
B00267820	0.130	N.A.	811	0.05	0.46	19.5	0.30	16.9
B00267821	2.800	N.A.	<5	<0.01	<0.01	3.02	0.05	1.3
B00267822	3.535	N.A.	<5	<0.01	<0.01	1.53	0.23	0.1
B00267823	4.770	N.A.	9	0.20	<0.01	8.36	<0.01	2.7

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Element	WtKg	M75um	@Au	Ba	@Cu	Fe	@Pb	S
Method	G_WGH79	G_SCR34	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	0.01	5	0.01	0.01	0.05	0.01	0.1
Units	kg	%	ppb	%	%	%	%	%
*Dup B00267823	N.A.	N.A.	<5	0.20	<0.01	8.12	<0.01	2.6
B00267824	2.885	N.A.	<5	0.10	0.01	2.87	<0.01	0.9
B00267825	4.655	N.A.	7	0.21	0.03	5.79	<0.01	2.4
B00267826	2.250	N.A.	9	0.18	0.01	3.86	<0.01	1.4
B00267827	5.490	N.A.	<5	0.14	0.02	7.67	<0.01	3.2
B00267828	2.320	N.A.	<5	0.20	0.07	7.35	<0.01	3.8
B00267829	2.990	N.A.	6	0.17	0.03	7.96	<0.01	4.0
B00267830	0.905	N.A.	7	<0.01	<0.01	0.05	<0.01	0.1
B00267831	2.920	N.A.	10	0.18	0.07	7.46	<0.01	3.9
B00267832	2.465	N.A.	9	0.18	0.04	4.68	<0.01	2.0
B00267833	4.135	98.0	10	0.08	0.04	5.58	0.01	2.6
B00267834	2.625	N.A.	5	0.21	0.04	8.36	<0.01	4.4
B00267835	4.205	N.A.	7	0.12	0.01	2.51	<0.01	0.7
B00267836	3.875	N.A.	6	0.11	0.02	2.68	<0.01	0.9
B00267837	3.915	N.A.	<5	0.21	0.07	7.63	<0.01	3.9
B00267838	4.590	N.A.	<5	0.12	0.02	6.16	<0.01	1.5
B00267839	3.395	N.A.	7	0.06	0.02	6.77	<0.01	0.9
B00267840	0.140	N.A.	871	0.05	0.45	19.2	0.30	16.1
B00267841	2.755	N.A.	25	0.15	0.02	2.92	<0.01	0.8
B00267842	3.470	N.A.	68	0.09	0.03	1.88	<0.01	1.0
B00267843	4.260	N.A.	69	0.12	0.04	7.33	<0.01	3.7
B00267844	3.760	N.A.	7	0.47	0.01	7.22	<0.01	0.9
B00267845	3.135	N.A.	<5	0.74	0.02	7.15	<0.01	1.2
B00267846	2.960	N.A.	5	0.43	0.03	4.97	<0.01	1.1
B00267847	3.580	N.A.	16	0.53	0.02	3.12	0.01	1.2
B00267848	4.390	N.A.	6	0.17	0.01	8.45	<0.01	<0.1
B00267849	3.710	N.A.	<5	0.15	0.03	9.24	<0.01	0.2
B00267850	0.820	N.A.	7	<0.01	<0.01	0.05	<0.01	0.2
B00267851	3.385	N.A.	7	0.16	0.02	2.62	<0.01	1.5
B00267852	3.110	N.A.	22	0.15	0.01	2.77	<0.01	1.6
B00267853	2.370	N.A.	12	0.14	0.02	3.24	<0.01	1.8
B00267854	2.940	N.A.	<5	0.11	0.02	8.53	<0.01	4.2
B00267855	3.040	N.A.	6	0.01	<0.01	8.73	<0.01	0.6
B00267856	2.830	N.A.	<5	0.11	0.03	8.20	<0.01	4.2

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Final : VC173475 Order: PO# BMC17-01019

Report File No.: 0000025755

Element	@Au	Ba	@Cu	Fe	@Pb	S
Method	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	5	0.01	0.01	0.05	0.01	0.1
Units	ppb	%	%	%	%	%
*Rep D00004598	6					
*Rep B00267839	5					
*Std OXN117	7710					
*Std OREAS222	1270					
*Std OREAS151B	64					
*Blk BLANK	6					
*Rep B00267802		0.16	0.02	3.65	<0.01	0.7
*Rep B00267815		0.27	0.02	5.18	<0.01	0.4
*Rep B00267852		0.15	0.01	2.77	<0.01	1.6
*Std OREAS134A		0.15	0.13	11.8	12.8	19.4
*Std ME-19		0.17	0.47	3.92	0.97	1.5
*Std RM183-89		3.08	<0.01	35.6	0.03	0.7
*Std OREAS131B		0.08	0.02	5.65	1.84	4.7
*Blk BLANK		<0.01	<0.01	<0.05	<0.01	<0.1

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Element	@Zn	As	Sb	@Bi	@Hg	@Se	@Ag
Method	GO_ICP90Q	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E
Det.Lim.	0.01	3	5	0.02	0.01	1	0.3
Units	%	ppm	ppm	ppm	ppm	ppm	g/t
D00004584	0.02	3	<5	0.10	<0.01	9	0.4
D00004585	0.03	26	<5	0.05	<0.01	12	0.6
D00004586	0.03	8	<5	<0.02	<0.01	5	<0.3
D00004587	<0.01	<3	<5	0.12	<0.01	7	0.4
D00004588	0.04	<3	<5	0.12	<0.01	35	1.5
D00004589	0.02	<3	<5	0.16	<0.01	15	0.4
D00004590	<0.01	4	<5	<0.02	<0.01	<1	<0.3
D00004591	0.02	12	<5	0.09	<0.01	20	0.7
D00004592	0.02	6	<5	0.22	<0.01	16	0.6
D00004593	0.02	<3	<5	0.33	<0.01	19	0.7
D00004594	0.02	5	<5	0.57	<0.01	13	0.5
D00004595	<0.01	<3	<5	0.30	<0.01	2	<0.3
D00004596	<0.01	4	<5	0.43	<0.01	2	0.4
D00004597	<0.01	4	<5	1.77	<0.01	2	1.1
D00004598	<0.01	<3	<5	4.54	<0.01	2	1.5
D00004599	<0.01	<3	<5	0.04	<0.01	<1	<0.3
D00004600	1.09	1430	101	23.0	8.63	107	42.6
B00267801	0.02	3	<5	0.22	<0.01	2	<0.3
B00267802	0.16	<3	<5	0.26	0.01	2	<0.3
B00267803	<0.01	19	<5	0.46	<0.01	1	<0.3
B00267804	<0.01	10	<5	0.15	<0.01	<1	<0.3
B00267805	0.01	10	<5	0.15	<0.01	2	<0.3
B00267806	0.01	<3	<5	0.19	<0.01	3	<0.3
B00267807	0.01	19	<5	0.24	<0.01	<1	<0.3
B00267808	0.02	5	<5	5.50	<0.01	13	<0.3
B00267809	0.02	<3	<5	6.17	<0.01	23	0.3
B00267810	<0.01	5	<5	0.31	<0.01	<1	<0.3
B00267811	0.01	<3	<5	1.08	<0.01	4	0.4
B00267812	0.02	<3	<5	2.24	<0.01	2	<0.3
B00267813	0.02	4	<5	0.38	<0.01	1	0.5
B00267814	0.01	4	<5	0.28	<0.01	<1	<0.3
B00267815	<0.01	<3	<5	0.41	<0.01	2	<0.3
B00267816	0.02	7	<5	0.51	<0.01	2	<0.3
B00267817	0.13	8	<5	1.38	0.02	2	<0.3
B00267818	0.02	9	<5	0.63	<0.01	2	0.4
B00267819	0.02	10	<5	<0.02	<0.01	4	<0.3
B00267820	1.09	1400	98	23.2	9.09	111	43.0
B00267821	0.03	<3	<5	3.60	<0.01	13	1.2
B00267822	0.02	<3	<5	10.2	<0.01	11	8.9
B00267823	0.02	34	<5	0.11	<0.01	9	0.3

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Element	@Zn	As	Sb	@Bi	@Hg	@Se	@Ag
Method	GO_ICP90Q	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E
Det.Lim.	0.01	3	5	0.02	0.01	1	0.3
Units	%	ppm	ppm	ppm	ppm	ppm	g/t
*Dup B00267823	0.02	30	<5	0.05	<0.01	9	<0.3
B00267824	<0.01	<3	<5	0.11	<0.01	4	<0.3
B00267825	0.02	<3	<5	0.16	<0.01	9	0.5
B00267826	0.01	3	<5	0.17	<0.01	5	<0.3
B00267827	0.02	3	<5	0.11	<0.01	7	0.8
B00267828	0.02	<3	<5	<0.02	<0.01	17	1.6
B00267829	0.02	7	<5	<0.02	<0.01	10	1.4
B00267830	<0.01	<3	<5	<0.02	<0.01	<1	<0.3
B00267831	<0.01	<3	<5	<0.02	<0.01	19	1.6
B00267832	0.02	<3	<5	<0.02	<0.01	11	0.5
B00267833	0.05	3	<5	0.94	<0.01	12	1.1
B00267834	0.03	<3	<5	0.24	<0.01	10	2.4
B00267835	0.02	4	<5	0.04	<0.01	6	0.4
B00267836	0.02	<3	<5	0.05	<0.01	6	0.4
B00267837	0.02	<3	<5	<0.02	<0.01	27	2.0
B00267838	0.02	17	<5	0.08	<0.01	7	0.3
B00267839	0.02	19	<5	0.05	<0.01	3	<0.3
B00267840	1.08	1380	93	22.9	8.21	101	44.0
B00267841	0.01	44	27	0.04	0.03	3	0.4
B00267842	0.01	59	20	0.10	0.03	3	1.4
B00267843	0.01	51	14	0.22	0.03	9	1.1
B00267844	0.23	<3	<5	0.23	0.01	2	<0.3
B00267845	0.02	3	<5	0.24	<0.01	3	<0.3
B00267846	0.01	9	<5	0.66	<0.01	5	<0.3
B00267847	0.05	3	<5	0.86	<0.01	5	<0.3
B00267848	<0.01	6	<5	0.04	<0.01	<1	<0.3
B00267849	<0.01	7	<5	0.10	<0.01	<1	0.4
B00267850	<0.01	<3	<5	<0.02	<0.01	<1	<0.3
B00267851	0.01	<3	<5	0.05	<0.01	5	<0.3
B00267852	<0.01	<3	<5	<0.02	<0.01	5	<0.3
B00267853	<0.01	9	<5	0.05	<0.01	6	0.3
B00267854	0.02	7	<5	<0.02	<0.01	9	1.6
B00267855	0.02	75	<5	<0.02	<0.01	1	<0.3
B00267856	0.02	58	<5	<0.02	<0.01	14	1.5
*Rep D00004592							0.7
*Rep B00267827							0.9
*Rep B00267844							0.3
*Std OREAS524							3.6
*Std OREAS621							66.8
*Std OREAS524							3.7

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Final : VC173475 Order: PO# BMC17-01019

Report File No.: 0000025755

Element	@Zn	As	Sb	@Bi	@Hg	@Se	@Ag
Method	GO_ICP90Q	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E
Det.Lim.	0.01	3	5	0.02	0.01	1	0.3
Units	%	ppm	ppm	ppm	ppm	ppm	g/t
*Blk BLANK							<0.3
*Blk BLANK							<0.3
*Rep D00004595		3	<5	0.31	<0.01	1	
*Rep B00267848		4	<5	0.04	<0.01	<1	
*Std OREAS601		323	18	20.8	N.A.	13	
*Std OREAS621		74	107	3.96	3.98	5	
*Std DS-1		6700	N.A.	N.A.	80.6	N.A.	
*Std OREAS601		298	20	20.7	N.A.	12	
*Std OREAS621		70	105	3.95	3.75	5	
*Blk BLANK		<3	<5	<0.02	<0.01	<1	
*Rep B00267802	0.16						
*Rep B00267815	<0.01						
*Rep B00267852	<0.01						
*Std OREAS134A	17.5						
*Std ME-19	0.75						
*Std RM183-89	<0.01						
*Std OREAS131B	3.08						
*Blk BLANK	<0.01						

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Certificate of Analysis
Work Order : VC174016
[Report File No.: 0000026224]

Date: November 24, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01021
Project No.: KZK
Samples: 94
Received: Oct 23, 2017
Pages: Page 1 to 12
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
94	G_LOG02	Pre-preparation processing, sorting, logging, boxing
94	G_WGH79	Weighing of samples and reporting of weights
11	G_WSH78	Barren wash between each sample - pulverizing stage
88	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
2	G_SCR34	Wet Screening 75µm, Evaluation of Prep
94	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)
94	GO_ICP90Q	Sodium Peroxide fusion/ICP-AES, single element
94	GE_IC14A	Aqua Regia digestion/ICP-AES finish
94	GE_IC14M	Aqua Regia digestion/ICP-MS finish
94	GE_AAS12E	@ Ag by AAS after Aqua Regia digest, 2g Vol 50
2	GO_FAG313	Ag FAS, Gravimetric, 30g
4	GO_XRF77B	Pyrosulphate fusion, XRF Base Metal package (0.2g)

Storage: Pulp & Reject

PULP STORAGE	:	STORE FOR 90 DAYS
REJECT STORAGE	:	STORE FOR 30 DAYS

Comments:

S and Ba data is informational only.

Certified By : _____

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Element	WtKg	M75um	@Au	Ba	@Cu	Fe	@Pb	S
Method	G_WGH79	G_SCR34	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	0.01	5	0.01	0.01	0.05	0.01	0.1
Units	kg	%	ppb	%	%	%	%	%
B00267857	5.000	N.A.	18	0.25	0.02	5.49	<0.01	2.2
B00267858	4.360	N.A.	8	0.09	<0.01	5.42	<0.01	2.3
B00267859	3.145	N.A.	11	0.16	<0.01	3.79	<0.01	1.6
B00267860	0.115	N.A.	809	0.05	0.46	20.0	0.31	18.0
B00267861	4.470	N.A.	14	0.18	0.01	6.35	<0.01	2.0
B00267862	3.325	N.A.	10	0.17	0.02	5.60	<0.01	2.1
B00267863	4.390	N.A.	11	0.15	0.02	5.74	<0.01	3.0
B00267864	4.430	N.A.	10	0.13	0.02	7.22	<0.01	2.3
B00267865	3.550	N.A.	11	0.17	0.03	5.94	<0.01	2.9
B00267866	3.570	N.A.	12	0.15	0.02	4.60	<0.01	2.3
B00267867	3.560	N.A.	6	0.03	<0.01	1.82	<0.01	0.6
B00267868	3.695	N.A.	7	0.14	<0.01	4.16	<0.01	0.5
B00267869	4.275	N.A.	<5	0.05	<0.01	8.63	<0.01	1.2
B00267870	0.715	N.A.	7	<0.01	<0.01	0.08	<0.01	0.3
B00267871	4.405	N.A.	<5	0.06	<0.01	9.50	<0.01	1.2
B00267872	3.950	N.A.	11	0.16	<0.01	7.12	<0.01	1.3
B00267873	4.835	N.A.	10	0.37	0.03	9.76	<0.01	3.4
B00267874	3.020	N.A.	17	0.04	0.01	3.71	<0.01	1.4
B00267875	4.515	N.A.	<5	<0.01	<0.01	2.74	<0.01	1.2
B00267876	4.405	N.A.	11	0.30	<0.01	9.16	<0.01	2.1
B00267877	3.660	N.A.	8	0.18	0.02	5.28	<0.01	1.4
B00267878	4.160	N.A.	14	0.22	0.03	7.02	<0.01	2.0
B00267879	3.470	N.A.	16	0.20	0.02	5.73	<0.01	1.4
B00267880	0.115	N.A.	854	0.05	0.46	19.8	0.30	17.9
B00267881	4.200	N.A.	6	0.23	0.01	4.38	<0.01	0.9
B00267882	3.470	N.A.	6	0.12	<0.01	1.88	<0.01	0.6
B00267883	4.115	N.A.	7	0.25	<0.01	1.77	<0.01	0.4
B00267884	4.230	N.A.	6	0.26	<0.01	2.25	<0.01	0.7
B00267885	3.465	N.A.	6	0.39	<0.01	2.26	<0.01	0.9
B00267886	4.195	N.A.	6	1.30	0.01	3.02	0.07	1.3
B00267887	3.985	N.A.	6	0.41	<0.01	2.53	0.02	0.9
B00267888	4.025	N.A.	5	0.27	<0.01	2.43	<0.01	0.7
B00267889	2.370	N.A.	100	0.24	0.22	6.07	0.12	3.8
B00267890	0.780	N.A.	9	<0.01	<0.01	<0.05	<0.01	0.3
B00267891	3.935	N.A.	28	0.38	0.09	7.08	0.02	1.5
B00267892	4.990	N.A.	668	0.15	2.34	14.9	0.12	6.7
B00267893	2.625	N.A.	4690	0.04	11.0	28.9	0.31	20.0
B00267894	2.920	N.A.	4170	0.15	6.68	21.9	0.62	14.9
B00267895	4.505	N.A.	534	<0.01	0.63	36.6	0.57	41.1
B00267896	6.220	N.A.	627	<0.01	0.04	31.4	0.97	40.1

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Element	WtKg	M75um	@Au	Ba	@Cu	Fe	@Pb	S
Method	G_WGH79	G_SCR34	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	0.01	5	0.01	0.01	0.05	0.01	0.1
Units	kg	%	ppb	%	%	%	%	%
B00267897	6.895	N.A.	658	2.05	0.02	28.6	4.01	38.7
*Dup B00267897	N.A.	N.A.	691	1.96	0.02	28.4	3.87	38.4
B00267898	6.045	N.A.	1790	0.72	0.42	28.5	5.04	37.9
B00267899	7.015	N.A.	1870	2.45	0.27	32.7	3.04	41.3
B00267900	0.130	N.A.	1240	0.26	0.36	3.82	1.32	4.6
B00267901	0.130	N.A.	812	0.14	1.74	13.6	0.25	9.3
B00267902	6.680	N.A.	1260	>4.00	0.20	34.4	1.69	43.9
B00267903	6.320	N.A.	1420	1.44	0.28	37.1	1.44	45.8
B00267904	6.795	N.A.	2230	>4.00	0.49	30.4	1.73	39.1
B00267905	5.770	N.A.	1210	1.72	0.41	35.8	1.34	43.9
B00267906	4.045	94.0	2060	1.37	5.76	26.1	0.34	14.9
B00267907	4.365	N.A.	4340	1.04	6.08	31.0	0.83	25.6
B00267908	4.390	N.A.	1040	0.16	0.53	36.7	1.61	43.8
B00267909	6.065	N.A.	649	0.31	0.24	35.1	1.63	43.4
B00267910	0.795	N.A.	10	<0.01	<0.01	0.09	<0.01	0.3
B00267911	7.075	N.A.	692	1.28	0.22	32.7	1.95	41.0
B00267912	6.535	N.A.	1700	>4.00	0.59	27.5	3.78	36.3
B00267913	5.045	N.A.	946	>4.00	0.27	26.8	1.30	32.3
B00267914	6.020	N.A.	543	0.26	0.20	35.0	1.97	37.6
B00267915	6.360	N.A.	573	0.08	0.68	40.9	0.98	41.0
B00267916	3.670	N.A.	268	0.61	0.26	19.0	1.25	20.0
B00267917	4.125	N.A.	287	0.75	0.42	7.57	0.07	2.4
B00267918	3.420	N.A.	52	0.67	0.10	5.75	0.06	0.9
B00267919	4.275	N.A.	83	0.35	0.25	9.29	0.04	1.5
B00267920	0.065	N.A.	705	0.05	0.46	19.9	0.31	17.6
B00267921	3.850	N.A.	30	0.39	0.04	4.92	0.03	0.9
B00267922	3.510	N.A.	14	0.42	<0.01	5.46	0.01	0.8
B00267923	3.760	N.A.	30	0.36	0.07	5.80	0.05	1.1
B00267924	2.710	N.A.	15	0.25	<0.01	1.95	0.08	1.3
B00267925	2.910	N.A.	13	0.17	0.01	3.52	0.01	1.4
B00267926	4.510	N.A.	14	0.16	0.01	4.05	<0.01	1.5
B00267927	3.600	N.A.	15	0.16	0.01	3.66	<0.01	1.2
B00267928	4.815	N.A.	9	0.32	0.02	9.00	<0.01	0.5
B00267929	4.500	N.A.	8	0.02	0.04	10.3	<0.01	0.4
B00267930	0.700	N.A.	10	<0.01	<0.01	0.09	<0.01	0.3
B00267931	3.165	N.A.	8	0.03	0.05	10.6	<0.01	0.9
B00267932	3.035	N.A.	8	0.08	<0.01	7.55	<0.01	0.2
B00267933	3.920	N.A.	<5	0.03	<0.01	8.24	<0.01	0.7
B00267934	4.390	N.A.	<5	0.09	0.01	9.63	<0.01	1.1
B00267935	4.830	N.A.	<5	0.18	0.02	9.71	<0.01	1.8

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Element	WtKg	M75um	@Au	Ba	@Cu	Fe	@Pb	S
Method	G_WGH79	G_SCR34	GE_FAA313	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q	GO_ICP90Q
Det.Lim.	0.01	0.01	5	0.01	0.01	0.05	0.01	0.1
Units	kg	%	ppb	%	%	%	%	%
B00267936	4.485	N.A.	<5	0.03	<0.01	7.73	<0.01	0.5
B00267937	3.530	N.A.	<5	0.02	<0.01	3.10	<0.01	0.8
B00267938	4.075	N.A.	<5	0.09	<0.01	3.18	<0.01	0.5
B00267939	3.360	N.A.	<5	0.11	0.03	2.94	<0.01	1.4
B00267940	0.065	N.A.	890	0.05	0.46	19.8	0.31	18.2
B00267941	4.125	N.A.	<5	0.08	<0.01	3.35	<0.01	0.4
B00267942	3.090	N.A.	<5	0.17	<0.01	1.19	<0.01	0.4
B00267943	3.585	N.A.	<5	0.08	<0.01	1.32	<0.01	0.6
B00267944	4.345	N.A.	<5	0.13	0.01	3.84	<0.01	1.6
B00267945	3.775	N.A.	<5	0.15	<0.01	1.73	<0.01	0.7
B00267946	4.025	N.A.	<5	0.19	<0.01	1.93	<0.01	0.6
B00267947	3.765	N.A.	6	0.12	<0.01	7.48	<0.01	2.8
B00267948	4.235	N.A.	6	0.12	0.01	2.19	<0.01	1.4
B00267949	3.025	91.3	<5	0.08	0.01	1.90	<0.01	1.1
B00267950	0.865	N.A.	6	<0.01	<0.01	0.07	<0.01	0.2
*Rep B00267863			10					
*Rep B00267923			48					
*Std OXN117			7750					
*Std OREAS222			1220					
*Std AMIS0474			166					
*Std OXN117			7500					
*Blk BLANK			8					
*Blk BLANK			<5					
*Rep B00267879				0.20	0.02	5.70	<0.01	1.4
*Rep B00267901				0.14	1.71	13.5	0.26	9.2
*Rep B00267921				0.39	0.05	4.98	0.04	0.8
*Rep B00267948				0.12	0.01	2.18	<0.01	1.4
*Std CCU1D				<0.01	24.9	30.0	0.28	32.5
*Std OREAS131B				0.08	0.02	5.85	1.82	4.8
*Std RM183-89				3.12	0.01	35.2	0.03	0.9
*Std OREAS134A				0.14	0.13	11.9	12.6	19.2
*Blk BLANK				<0.01	<0.01	<0.05	<0.01	<0.1
*Blk BLANK				<0.01	<0.01	<0.05	<0.01	<0.1

Element	@Au
Method	GE_FAA313
Det.Lim.	5
Units	ppb
*Rep B00267941	<5

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Element	@Zn	As	Sb	@Bi	@Hg	@Se	@Ag	Ag
Method	GO_ICP90Q	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E	GO_FAG313
Det.Lim.	0.01	3	5	0.02	0.01	1	0.3	10
Units	%	ppm	ppm	ppm	ppm	ppm	g/t	g/t
B00267857	0.01	<3	<5	0.15	0.02	6	0.7	N.A.
B00267858	0.01	8	<5	0.18	0.02	7	<0.3	N.A.
B00267859	0.01	<3	<5	0.22	0.01	3	0.3	N.A.
B00267860	1.14	1320	95	25.1	8.97	107	43.3	N.A.
B00267861	0.02	<3	<5	0.37	0.03	5	0.7	N.A.
B00267862	0.02	<3	<5	0.48	0.02	5	0.5	N.A.
B00267863	<0.01	<3	<5	0.18	0.01	7	0.6	N.A.
B00267864	0.02	<3	<5	0.04	<0.01	5	0.5	N.A.
B00267865	0.01	<3	<5	0.76	<0.01	11	0.6	N.A.
B00267866	0.01	<3	<5	1.06	0.01	9	0.7	N.A.
B00267867	<0.01	<3	<5	<0.02	<0.01	1	<0.3	N.A.
B00267868	0.01	<3	<5	<0.02	<0.01	<1	<0.3	N.A.
B00267869	0.02	<3	<5	0.05	<0.01	2	<0.3	N.A.
B00267870	<0.01	5	<5	<0.02	<0.01	<1	<0.3	N.A.
B00267871	0.03	<3	<5	0.04	0.01	2	<0.3	N.A.
B00267872	0.02	3	<5	0.09	<0.01	3	<0.3	N.A.
B00267873	0.03	<3	<5	0.16	<0.01	5	0.7	N.A.
B00267874	0.01	<3	<5	0.10	<0.01	2	<0.3	N.A.
B00267875	<0.01	<3	<5	0.03	<0.01	2	<0.3	N.A.
B00267876	0.02	5	<5	0.05	<0.01	2	<0.3	N.A.
B00267877	0.02	<3	<5	1.04	<0.01	3	0.5	N.A.
B00267878	0.03	<3	<5	0.93	<0.01	5	0.5	N.A.
B00267879	0.02	3	<5	0.21	<0.01	3	<0.3	N.A.
B00267880	1.13	1320	93	25.7	8.66	107	43.9	N.A.
B00267881	0.01	3	<5	0.19	<0.01	<1	<0.3	N.A.
B00267882	<0.01	<3	<5	1.36	<0.01	<1	0.5	N.A.
B00267883	<0.01	<3	<5	0.95	<0.01	<1	0.4	N.A.
B00267884	<0.01	<3	<5	0.08	<0.01	<1	<0.3	N.A.
B00267885	<0.01	<3	<5	0.02	<0.01	<1	<0.3	N.A.
B00267886	0.12	<3	<5	2.31	<0.01	2	1.5	N.A.
B00267887	0.04	15	<5	0.11	0.15	<1	<0.3	N.A.
B00267888	<0.01	<3	<5	0.06	<0.01	<1	<0.3	N.A.
B00267889	0.44	135	<5	8.16	0.42	51	12.3	N.A.
B00267890	<0.01	7	<5	<0.02	<0.01	<1	<0.3	N.A.
B00267891	0.05	17	<5	7.69	0.08	22	4.9	N.A.
B00267892	0.22	123	<5	57.1	0.49	168	88.7	N.A.
B00267893	1.04	98	<5	127	2.76	860	>300	372
B00267894	1.52	118	9	119	2.00	573	248	N.A.
B00267895	13.8	2870	47	64.5	5.50	430	52.2	N.A.
B00267896	16.8	4370	80	65.6	6.01	304	56.4	N.A.

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Element	@Zn	As	Sb	@Bi	@Hg	@Se	@Ag	Ag
Method	GO_ICP90Q	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E	GO_FAG313
Det.Lim.	0.01	3	5	0.02	0.01	1	0.3	10
Units	%	ppm	ppm	ppm	ppm	ppm	g/t	g/t
B00267897	16.3	3490	212	28.9	13.2	172	138	N.A.
*Dup B00267897	15.8	3340	209	28.2	13.2	164	132	N.A.
B00267898	15.1	2940	675	9.15	31.9	128	249	N.A.
B00267899	11.2	1500	190	17.7	27.6	129	119	N.A.
B00267900	5.34	74	106	4.05	4.03	6	67.9	N.A.
B00267901	1.08	77	15	17.1	0.74	17	20.0	N.A.
B00267902	8.14	1260	82	33.7	19.7	127	79.1	N.A.
B00267903	7.94	1080	106	39.0	20.6	178	79.0	N.A.
B00267904	7.35	2630	319	22.3	17.6	45	124	N.A.
B00267905	8.46	1430	314	57.3	18.4	140	133	N.A.
B00267906	1.21	1340	17	121	7.23	371	250	N.A.
B00267907	4.58	1000	35	93.3	18.5	702	273	274
B00267908	6.27	1050	183	85.2	20.1	726	156	N.A.
B00267909	8.14	623	126	49.2	29.4	374	82.8	N.A.
B00267910	0.02	4	<5	0.08	0.12	1	<0.3	N.A.
B00267911	8.96	894	162	46.1	20.4	201	83.6	N.A.
B00267912	10.0	2460	333	11.9	33.2	138	153	N.A.
B00267913	6.22	2850	413	9.53	19.6	275	102	N.A.
B00267914	12.2	4670	46	33.7	13.2	418	52.8	N.A.
B00267915	6.36	728	17	49.4	10.2	809	63.6	N.A.
B00267916	4.51	565	58	29.6	12.3	229	73.1	N.A.
B00267917	0.12	607	7	70.7	0.55	51	35.6	N.A.
B00267918	0.11	20	<5	8.85	0.37	36	7.1	N.A.
B00267919	0.13	119	<5	4.95	0.38	28	6.6	N.A.
B00267920	1.16	1380	98	21.0	9.03	101	44.1	N.A.
B00267921	0.07	295	<5	5.26	0.27	18	3.1	N.A.
B00267922	0.04	50	<5	2.28	0.08	10	1.1	N.A.
B00267923	0.36	23	<5	6.82	1.04	27	4.7	N.A.
B00267924	1.52	28	<5	0.10	0.15	3	1.1	N.A.
B00267925	0.02	<3	<5	0.84	0.01	2	0.3	N.A.
B00267926	0.01	<3	<5	0.55	0.01	2	<0.3	N.A.
B00267927	0.01	<3	<5	0.63	<0.01	2	<0.3	N.A.
B00267928	0.02	25	<5	0.03	<0.01	<1	<0.3	N.A.
B00267929	0.01	3	<5	0.09	<0.01	1	<0.3	N.A.
B00267930	<0.01	5	<5	<0.02	<0.01	<1	<0.3	N.A.
B00267931	0.01	5	<5	0.14	<0.01	3	<0.3	N.A.
B00267932	0.01	55	<5	0.06	<0.01	<1	<0.3	N.A.
B00267933	0.03	10	<5	0.11	<0.01	2	<0.3	N.A.
B00267934	0.02	8	<5	0.19	<0.01	6	<0.3	N.A.
B00267935	0.02	<3	<5	0.33	<0.01	9	<0.3	N.A.

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Element	@Zn	As	Sb	@Bi	@Hg	@Se	@Ag	Ag
Method	GO_ICP90Q	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E	GO_FAG313
Det.Lim.	0.01	3	5	0.02	0.01	1	0.3	10
Units	%	ppm	ppm	ppm	ppm	ppm	g/t	g/t
B00267936	0.01	4	<5	0.10	<0.01	1	<0.3	N.A.
B00267937	<0.01	<3	<5	0.03	<0.01	3	<0.3	N.A.
B00267938	0.01	<3	<5	0.03	<0.01	2	<0.3	N.A.
B00267939	<0.01	<3	<5	0.23	<0.01	7	0.4	N.A.
B00267940	1.12	1380	91	21.1	8.42	106	43.4	N.A.
B00267941	<0.01	<3	<5	0.05	0.03	2	<0.3	N.A.
B00267942	<0.01	<3	<5	1.22	0.01	<1	0.8	N.A.
B00267943	<0.01	<3	<5	1.58	0.01	1	0.8	N.A.
B00267944	<0.01	<3	<5	0.26	<0.01	5	0.3	N.A.
B00267945	<0.01	<3	<5	0.08	<0.01	1	<0.3	N.A.
B00267946	<0.01	<3	<5	0.03	<0.01	1	<0.3	N.A.
B00267947	0.03	4	<5	0.05	0.02	3	<0.3	N.A.
B00267948	0.01	<3	<5	0.05	<0.01	2	<0.3	N.A.
B00267949	<0.01	<3	<5	0.05	<0.01	2	<0.3	N.A.
B00267950	<0.01	4	<5	<0.02	<0.01	<1	<0.3	N.A.
*Std ME-1302								428
*Blk BLANK								<10
*Rep B00267879	0.02							
*Rep B00267901	1.08							
*Rep B00267921	0.07							
*Rep B00267948	<0.01							
*Std CCU1D	2.68							
*Std OREAS131B	3.07							
*Std RM183-89	<0.01							
*Std OREAS134A	17.4							
*Blk BLANK	<0.01							
*Blk BLANK	<0.01							
*Rep B00267868							<0.3	
*Rep B00267885							<0.3	
*Rep B00267915							63.1	
*Rep B00267944							0.3	
*Std AMIS0268							197	

Element	As	Sb	@Bi	@Hg	@Se	@Ag
Method	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_ICM14B	GE_AAS12E
Det.Lim.	3	5	0.02	0.01	1	0.3
Units	ppm	ppm	ppm	ppm	ppm	g/t
*Std OREAS621						68.6
*Std OREAS621						67.8
*Std OREAS524						3.8
*Blk BLANK						<0.3
*Blk BLANK						<0.3
*Rep B00267871	<3	<5	0.04	<0.01	2	
*Rep B00267929	<3	<5	0.10	<0.01	1	

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Final : VC174016 Order: PO# BMC17-01021

Report File No.: 0000026224

	As GE_ICM14B 3 ppm	Sb GE_ICM14B 5 ppm	@Bi GE_ICM14B 0.02 ppm	@Hg GE_ICM14B 0.01 ppm	@Se GE_ICM14B 1 ppm	@Ag GE_AAS12E 0.3 g/t
*Std OREAS601	313	20	21.4	N.A.	11	
*Std OREAS621	74	108	4.16	3.97	6	
*Std OREAS934	N.A.	N.A.	484	N.A.	81	
*Std OREAS601	307	17	20.5	N.A.	11	
*Std OREAS621	70	108	3.76	3.91	6	
*Std OREAS934	N.A.	N.A.	512	N.A.	79	
*Std DS-1	6800	N.A.	N.A.	79.7	N.A.	
*Blk BLANK	<3	<5	<0.02	0.01	<1	

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Element	Ba
Method	GO_XRF77B
Det.Lim.	0.2
Units	%
B00267857	N.A.
B00267858	N.A.
B00267859	N.A.
B00267860	N.A.
B00267861	N.A.
B00267862	N.A.
B00267863	N.A.
B00267864	N.A.
B00267865	N.A.
B00267866	N.A.
B00267867	N.A.
B00267868	N.A.
B00267869	N.A.
B00267870	N.A.
B00267871	N.A.
B00267872	N.A.
B00267873	N.A.
B00267874	N.A.
B00267875	N.A.
B00267876	N.A.
B00267877	N.A.
B00267878	N.A.
B00267879	N.A.
B00267880	N.A.
B00267881	N.A.
B00267882	N.A.
B00267883	N.A.
B00267884	N.A.
B00267885	N.A.
B00267886	N.A.
B00267887	N.A.
B00267888	N.A.
B00267889	N.A.
B00267890	N.A.
B00267891	N.A.
B00267892	N.A.
B00267893	N.A.
B00267894	N.A.
B00267895	N.A.
B00267896	N.A.

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Element	Ba
Method	GO_XRF77B
Det.Lim.	0.2
Units	%
B00267897	N.A.
*Dup B00267897	N.A.
B00267898	N.A.
B00267899	N.A.
B00267900	N.A.
B00267901	N.A.
B00267902	4.7
B00267903	N.A.
B00267904	8.0
B00267905	N.A.
B00267906	N.A.
B00267907	N.A.
B00267908	N.A.
B00267909	N.A.
B00267910	N.A.
B00267911	N.A.
B00267912	5.7
B00267913	5.2
B00267914	N.A.
B00267915	N.A.
B00267916	N.A.
B00267917	N.A.
B00267918	N.A.
B00267919	N.A.
B00267920	N.A.
B00267921	N.A.
B00267922	N.A.
B00267923	N.A.
B00267924	N.A.
B00267925	N.A.
B00267926	N.A.
B00267927	N.A.
B00267928	N.A.
B00267929	N.A.
B00267930	N.A.
B00267931	N.A.
B00267932	N.A.
B00267933	N.A.
B00267934	N.A.
B00267935	N.A.

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Element	Ba
Method	GO_XRF77B
Det.Lim.	0.2
Units	%
B00267936	N.A.
B00267937	N.A.
B00267938	N.A.
B00267939	N.A.
B00267940	N.A.
B00267941	N.A.
B00267942	N.A.
B00267943	N.A.
B00267944	N.A.
B00267945	N.A.
B00267946	N.A.
B00267947	N.A.
B00267948	N.A.
B00267949	N.A.
B00267950	N.A.

Element	Ba
Method	GO_XRF77B
Det.Lim.	0.2
Units	%
*Blk BLANK	<0.2
*Rep B00267904	7.7
*Std CRM3594-86	10.5

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Certificate of Analysis
Work Order : VC174016R
[Report File No.: 0000026716]

Date: December 19, 2017

To: **ROBIN BLACK**
BMC MINERALS (NO 1) LTD
530-1130 WEST PENDER ST
VANCOUVER BC V6E 4A4

P.O. No.: PO# BMC17-01021
Project No.: KZK
Samples: 94
Received: Nov 29, 2017
Pages: Page 1 to 4
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
8	GE_FAA313	@Au, FAS, AAS, 30g-5ml(Final Mode)

Storage: Pulp & Reject

PULP STORAGE : STORE FOR 90 DAYS
REJECT STORAGE : STORE FOR 30 DAYS

Certified By :

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Final : VC174016R Order: PO# BMC17-01021

Report File No.: 0000026716

Element	@Au
Method	GE_FAA313
Det.Lim.	5
Units	ppb
B00267857	N.A.
B00267858	N.A.
B00267859	N.A.
B00267860	N.A.
B00267861	N.A.
B00267862	N.A.
B00267863	N.A.
B00267864	N.A.
B00267865	N.A.
B00267866	N.A.
B00267867	N.A.
B00267868	N.A.
B00267869	N.A.
B00267870	N.A.
B00267871	N.A.
B00267872	N.A.
B00267873	N.A.
B00267874	N.A.
B00267875	N.A.
B00267876	N.A.
B00267877	N.A.
B00267878	N.A.
B00267879	N.A.
B00267880	N.A.
B00267881	N.A.
B00267882	N.A.
B00267883	N.A.
B00267884	N.A.
B00267885	N.A.
B00267886	N.A.
B00267887	N.A.
B00267888	N.A.
B00267889	N.A.
B00267890	N.A.
B00267891	N.A.
B00267892	N.A.
B00267893	N.A.
B00267894	N.A.
B00267895	N.A.
B00267896	N.A.

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Final : VC174016R Order: PO# BMC17-01021

Report File No.: 0000026716

Element	@Au
Method	GE_FAA313
Det.Lim.	5
Units	ppb
B00267897	N.A.
B00267898	N.A.
B00267899	N.A.
B00267900	N.A.
B00267901	N.A.
B00267902	N.A.
B00267903	N.A.
B00267904	N.A.
B00267905	N.A.
B00267906	N.A.
B00267907	N.A.
B00267908	N.A.
B00267909	N.A.
B00267910	N.A.
B00267911	798
B00267912	1610
B00267913	894
B00267914	608
B00267915	639
B00267916	244
B00267917	232
B00267918	N.A.
B00267919	N.A.
B00267920	882
B00267921	N.A.
B00267922	N.A.
B00267923	N.A.
B00267924	N.A.
B00267925	N.A.
B00267926	N.A.
B00267927	N.A.
B00267928	N.A.
B00267929	N.A.
B00267930	N.A.
B00267931	N.A.
B00267932	N.A.
B00267933	N.A.
B00267934	N.A.
B00267935	N.A.
B00267936	N.A.

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Final : VC174016R Order: PO# BMC17-01021

Report File No.: 0000026716

Element	@Au
Method	GE_FAA313
Det.Lim.	5
Units	ppb
B00267937	N.A.
B00267938	N.A.
B00267939	N.A.
B00267940	N.A.
B00267941	N.A.
B00267942	N.A.
B00267943	N.A.
B00267944	N.A.
B00267945	N.A.
B00267946	N.A.
B00267947	N.A.
B00267948	N.A.
B00267949	N.A.
B00267950	N.A.
*Std OREAS222	1200
*Blk BLANK	<5
*Rep B00267914	632

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Appendix T: Drill Core QA/QC Report

EQUITY | EXPLORATION CONSULTANTS LTD.

QA/QC REPORT

DATE: 05 February 2018

PROJECT: **Kudz Ze Kayah**

CLIENT: **BMC Minerals No. 1**

PERIOD OF WORK: 17 June -17 November 2017

SUMMARY

This report summarizes and discusses the results of the field-based quality assurance / quality control (QA/QC) program for the 2017 drill campaign at Kudz Ze Kayah (KZK), and applies to the following work orders:

- VC172527
- VC172528
- VC172529
- VC172530
- VC172531
- VC172531R
- VC172817
- VC173045
- VC173475
- VC174016
- VC174016R

During the 2017 assay program there was one instance of significant blank contamination and one instance of assay accuracy failure for gold. In both instances, the affected sampled were re-assayed, resulting in a pass.

1510-250 Howe St | Vancouver BC V6C 3R8
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INTRODUCTION

This report discusses the results of the field-based quality assurance / quality control (QA/QC) program for the 2017 drill campaign at the Kudz Ze Kayah (KZK) Project. The QA/QC program includes insertion of certified standard and blank material into the sample stream to monitor accuracy and contamination, and analysis of field and preparation duplicates to monitor precision of the sampling and analytical process. In total, 15% of all samples submitted to the lab are for QAQC purposes (1 standard, 1 blank, 1 duplicate in every batch of 20 samples), consistent with best practise recommendations (Abzalov, 2008; Sketchley, 1998). Sample failures and corrective measures are summarized in Table 1 at the end of this report.

PROCEDURES

Samples were shipped in rice sacks sealed with individually numbered security straps to SGS Mineral Services Geochemistry Vancouver in Burnaby, BC ("SGS Vancouver" or "SGS") for geochemical analysis of base (Cu, Pb, Zn) and precious (Ag, Au) metals for use in the resource calculation, as well as Fe and several other major and trace elements (As, Ba, Bi, Hg, S, Sb, Se). SGS Vancouver is an ISO 9001:2008 certified laboratory (accredited laboratory No. 744) that also conforms with the requirements of CAN-P-1579, CAN-P-1578 and CAN-P-4E (ISO/IEC 17025-2005) for the analytical methods used on the 2016 KZK Project. Accreditation details were provided in the 2015 QA/QC review (Voordouw, 2016a).

Prior to analysis, samples were weighed, dried and crushed to 75% passing 2 mm, with a 250 g split pulverized to 85% passing 75 microns. Gold was analysed by 30 g fire assay with an AAS finish and silver analysed by ICP with an AAS finish on a two-gram 2-acid digest aliquot (Table 1). Gold and silver over limits were triggered at Au >5 g/t and Ag >250 g/t respectively, resulting in re-analysis using a 30 g fire assay with gravimetric finish. Copper, lead, zinc and iron assays were done with Na_2O_2 fusion and ICP-AES analysis. This fusion results in complete digestion of the sample and so provides a near total chemical analysis. Arsenic, Bi, Hg, S, Sb and Se were analysed by ICP-MS on a two-acid aqua regia digest of 3:1 HCl:HNO_3. A smaller aliquot was used for samples with relatively high Ba and S, in order to prevent the precipitation of Pb along with $BaSO_4$. Samples with >4% Ba and low base metals were fused with pyrosulphate and analysed by XRF.

Table 1: Overview of analytical methods used by SGS for analysis of the 2017 samples

Element	SGS		
	Code	*Range*	*Method*
Ag <250 ppm	GE_AAS12E	0.3–300 ppm	2-acid digest, AAS
Ag >250 ppm	GO_FAG313	10–3000 ppm	FA, GRAV
Au <5 ppm	GE_FAA313	0.005–10 ppm	FA, AAS
Au >5 ppm	GO_FAG303	1.0–3000 ppm	FA, GRAV
Cu	GO_ICP90Q	0.01–30%	Na_2O_2 fusion, ICP-AES
Fe	GO_ICP90Q	0.05–50%	Na_2O_2 fusion, ICP-AES
Pb	GO_ICP90Q	0.01–30%	Na_2O_2 fusion, ICP-AES
Zn	GO_ICP90Q	0.01–30%	Na_2O_2 fusion, ICP-AES
As	GE_ICM14B	1–10000 ppm	AR digest, ICP-AES, -MS
Ba <4%	GO_ICP90Q	0.01–4%	Na_2O_2 fusion, ICP-AES
Ba >4%	GO_XRF77B	0.2–100%?	S_2O_7 fusion, XRF
Bi	GE_ICM14B	0.02–10000 ppm	AR digest, ICP-AES, -MS
Hg	GE_ICM14B	0.01–10000 ppm	AR digest, ICP-AES, -MS
S	GO_ICP90Q	0.01–30%?	Na_2O_2 fusion, ICP-AES
Sb	GE_ICM14B	0.05–10000 ppm	AR digest, ICP-AES, -MS
Se	GE_ICM14B	1–1000 ppm	AR digest, ICP-AES, -MS

RESULTS

Certified standard materials (CSMs)

Certified standard materials (CSM or “standards”) were inserted into the sample stream at a rate of 5% or one for every 20 samples. Analytical results are plotted on a Shewhart Control Chart that illustrates the relation of each CSM to the certified assay values provided by the manufacturer. The difference between assayed and certified values is quantified as a Z-score, which indicates the number of standard deviations (σ) that each certified standard assay plots above (+ve values) or below (-ve values) the certified mean. Z-score values of ±2 are referred to as the “warning limits” whereas ±3 is the control limit that may trigger follow-up action.

There was one 3σ CSM failure for Au (B00267920) during the 2017 drilling program, which resulted in a re-assay for the affected sample set. On re-assay, the failed sample returned below 2σ error for Au. There were no 2σ CSM failures during the 2017 drilling program.

Table 2: Certified means and standard deviations (SD) for CRMs used in 2015 KZK Project

CRM Name	Ag (ppm)		Au (ppm)		Cu (%)		Fe (%)		Pb (%)		Zn (%)	
	Mean	*SD*	*Mean*	*SD*	*Mean*	*SD*	*Mean*	*SD*	*Mean*	*SD*	*Mean*	*SD*
CDN-ME-1311	44.9	1.1	0.839	0.033	0.468	0.011			0.303	0.006	1.12	0.02
OREAS 621	69.0	6.7	1.250	0.042	0.368	0.017	3.71	0.11	1.33	0.06	5.22	0.22
OREAS 623	22.7	3.5	0.827	0.039	1.73	0.09	13.45	0.38	0.247	0.010	1.03	0.04
OREAS 113					13.3	0.5	28.0	2.1	0.025	0.001	0.4158	0.0196

Notes: blank cells = not certified;

Blanks

Field blanks consist of landscaping stone acquired from Premier Horticulture Ltd. and were inserted at a rate of 5% or one for every 20 samples. Ten of these blank samples were calibrated in 2015 (Voordouw, 2016b) and are considered acceptable for use as field blank material for ore grade assay. Analyses of blank material are plotted, together with all core samples, in order that they were analysed so as to best visualize any links between contamination and batches with high-grade samples. Control limits are commonly set at 5x the detection limit, although higher limits can be used based on the actual concentration of said element in the blank and the abundance that constitutes ore grade.

With the exception of one, all blanks returned below 5x detection limit for Au, Ag, Cu, Pb, Fe, and Zn for the 2017 drilling program. One sample (D00004570) returned over 5x detection limit for Fe and Pb and over 10x detection limit for Ag and Zn, indicating significant contamination. Based on this result, the affected sample set was re-assayed. The re-assayed blank material returned below 5x detection limit valued for Au, Ag, Cu, Pb, Fe, and Zn.

Table 3: Detection and mineralized limits for selected precious and base metals

Statistic	Ag	Au	Cu	Fe	Pb	Zn
Detection limit	0.3 ppm	0.005 ppm	0.01%	0.05%	0.01%	0.01%
Mean (N = 13)	<dl	0.006	<dl	0.10%	<dl	0.02
N.o. samples <*dl*	12	3	13	1	12	10
% of samples <*dl*	92.3%	23.1%	100.0%	7.7%	92.3%	76.9%
N.o. samples >10 x *dl*	1	0	0	0	0	1
% of samples >10 x *dl*	7.7%	0.0%	0.0%	0.0%	0.0%	7.7%
Maximum assay	3.8	0.01	<dl	0.41%	0.08%	0.14%
Maximum assay/*dl*	2.0	1.4	N/A	8.2	8.0	14.0

Table 1: 2017 KZK geochemistry QA/QC failures

Sample	Certificate	Hole ID	Problem	Corrective Action
B00267920	VC174016	K17-450	3σ CSM failure	Re-assay B00267911-B00267917, B00267920
D00004570	VC172531	K17-437	Multi-element blank failure (contamination)	Re-assay D00004568-D00004570

DEFINITIONS

Z- or standard score

The Z-score is a measure of the difference between the actual assay value of a certified standard material (CSM) and the certified assay value of that CSM, expressed as:

$$Z\ score = \frac{CSM\ assay\ value\ (X) - Mean\ certfied\ assay\ value\ (\mu)}{Certified\ standard\ deviation\ (\sigma)}$$

Plotting of Z-scores on Shewhart Control Charts, rather than absolute difference, allows comparison of several CSMs on the same chart.

The following criteria are used to trigger further investigation:

- One CSM plotting outside the control limits
- 2 of 3 consecutive CSM samples plotting beyond the warning limits
- 7 or more consecutive CSM samples plotting above or below the mean
- 5 or more consecutive CSM samples increasing or decreasing, indicating a trend

REFERENCES

Abzalov, M., 2008, Quality control data: A review of procedures for measuring and monitoring precision and accuracy: Exploration and Mining Geology, v. 17, p. 131-144.

Sketchley, D. A., 1998, Gold deposits: Establishing sampling protocols and monitoring quality control: Exploration and Mining Geology, v. 7, p. 129-138.

Stanley, C. R., and Lawie, D., 2007, Average relative error in geochemical determinations: Clarification, calculation, and a plea for consistency: Exploration and Mining Geology, v. 16, p. 267-275.

Voordouw, R., 2016a, Review of QA/QC results for the 2015 KZK Project, p. 58.

Voordouw, R., 2016b, Review of QA/QC results for the 2015 KZK Project, Unpublished Technical Document for BMC Minerals (No. 1) Ltd, p. 58.

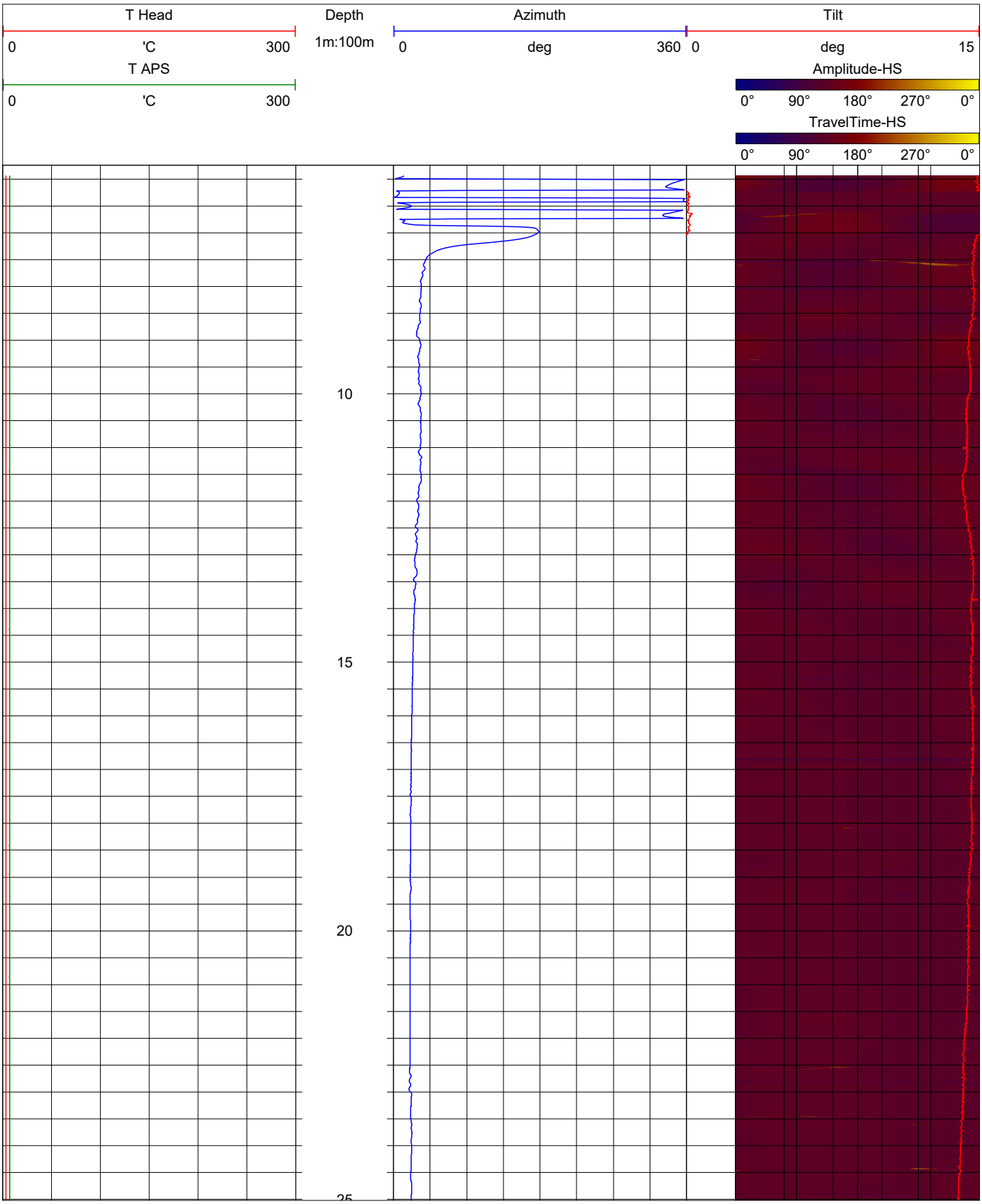
Appendix U: Televiewer Logs

This appendix contains all of the unprocessed televiewer logs for ‘in-pit’ geotechnical drilling at the KZK Project during 2017.

Table U-1: Table of contents for Televiewer logs in this appendix

Drill Hole	Televiewer Survey Type	Page Number
K17-420	Optical televiewer	2
K17-420	Acoustic televiewer	11
K17-422	Optical and Acoustic televiewer	55
K17-424	Optical and Acoustic televiewer	102
K17-427	Optical and Acoustic televiewer	139
K17-430	Optical and Acoustic televiewer	174
K17-438	Optical and Acoustic televiewer	213
K17-439	Optical and Acoustic televiewer	243

K17-420 Acoustic Televiewer Survey



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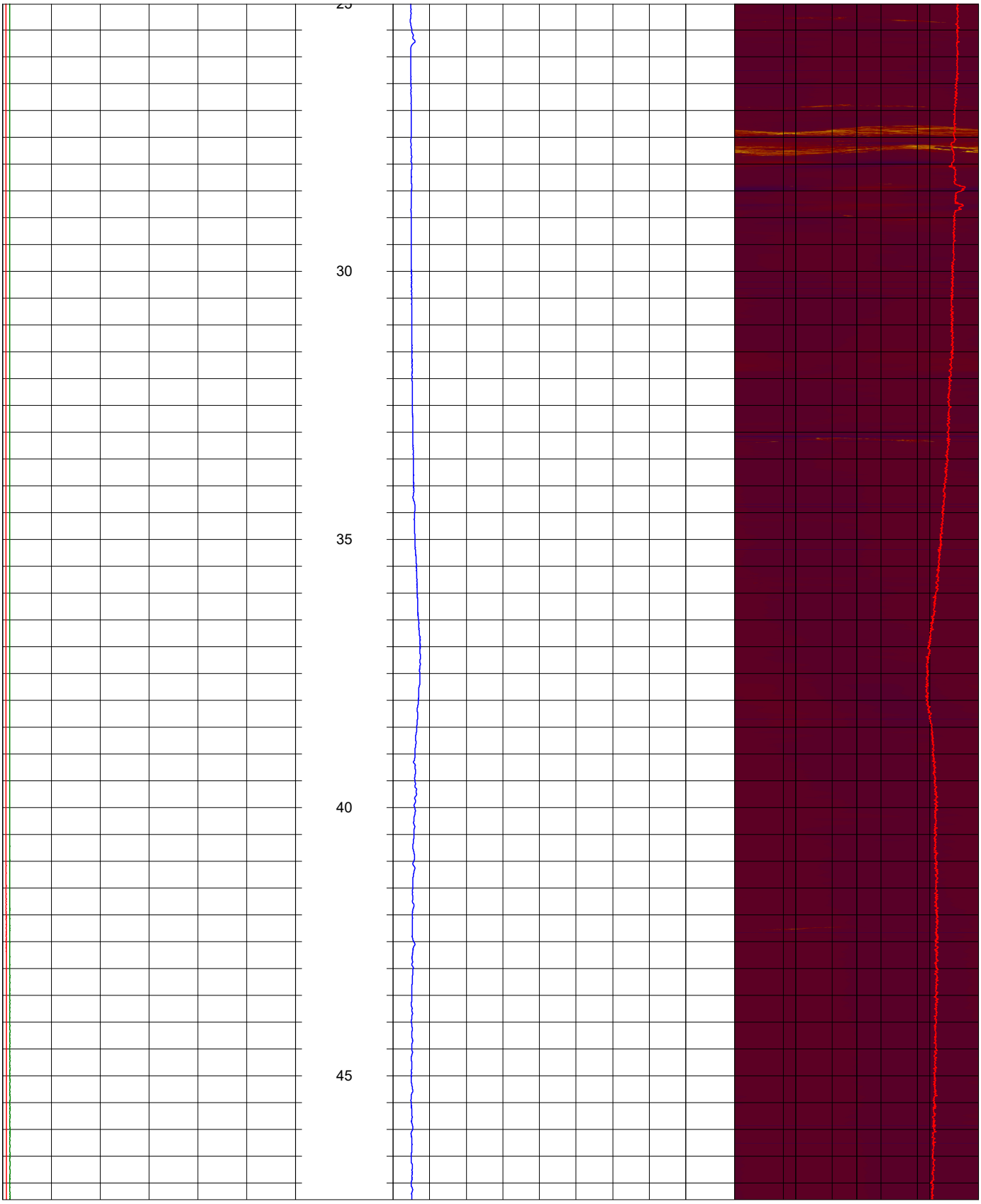

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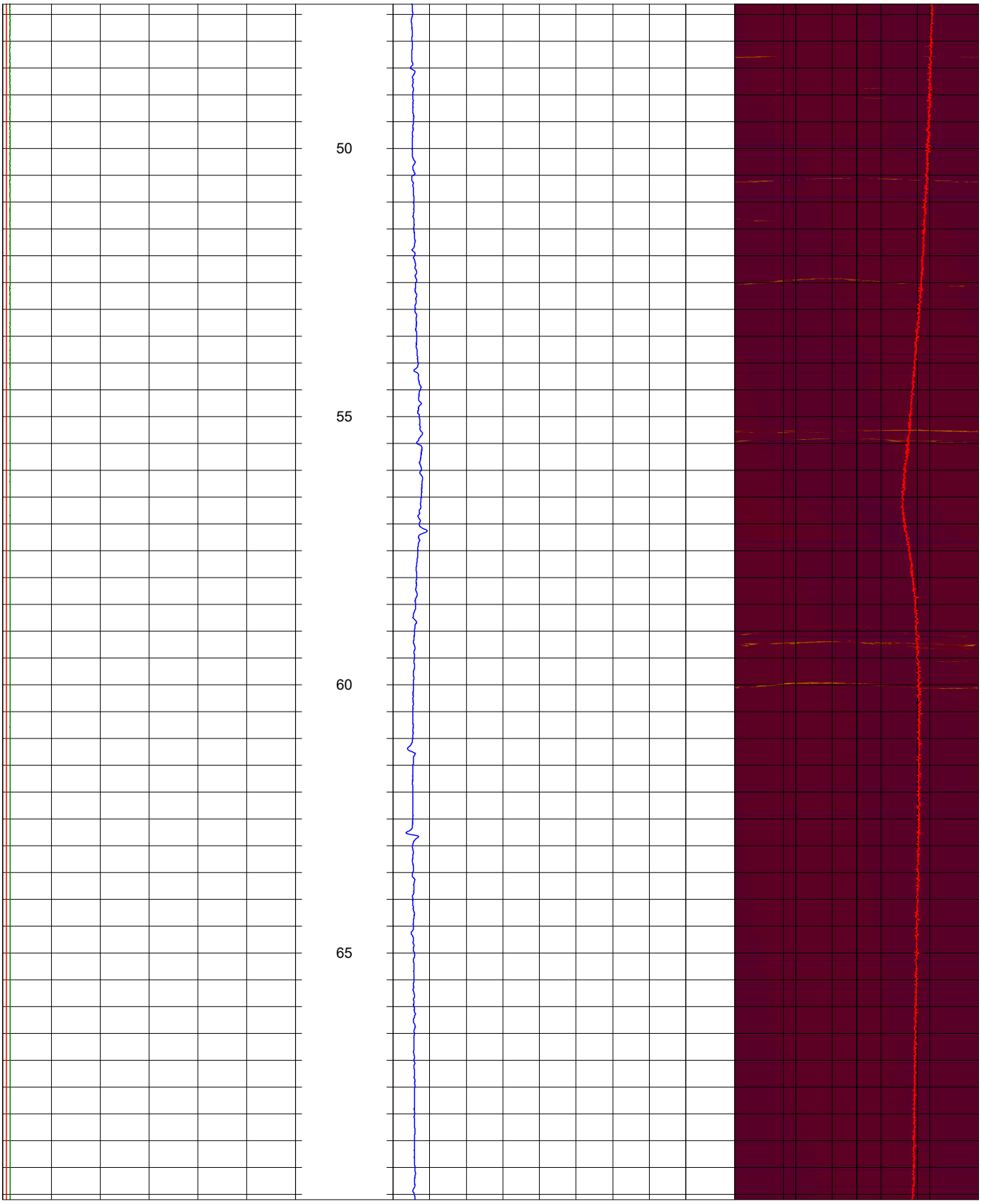

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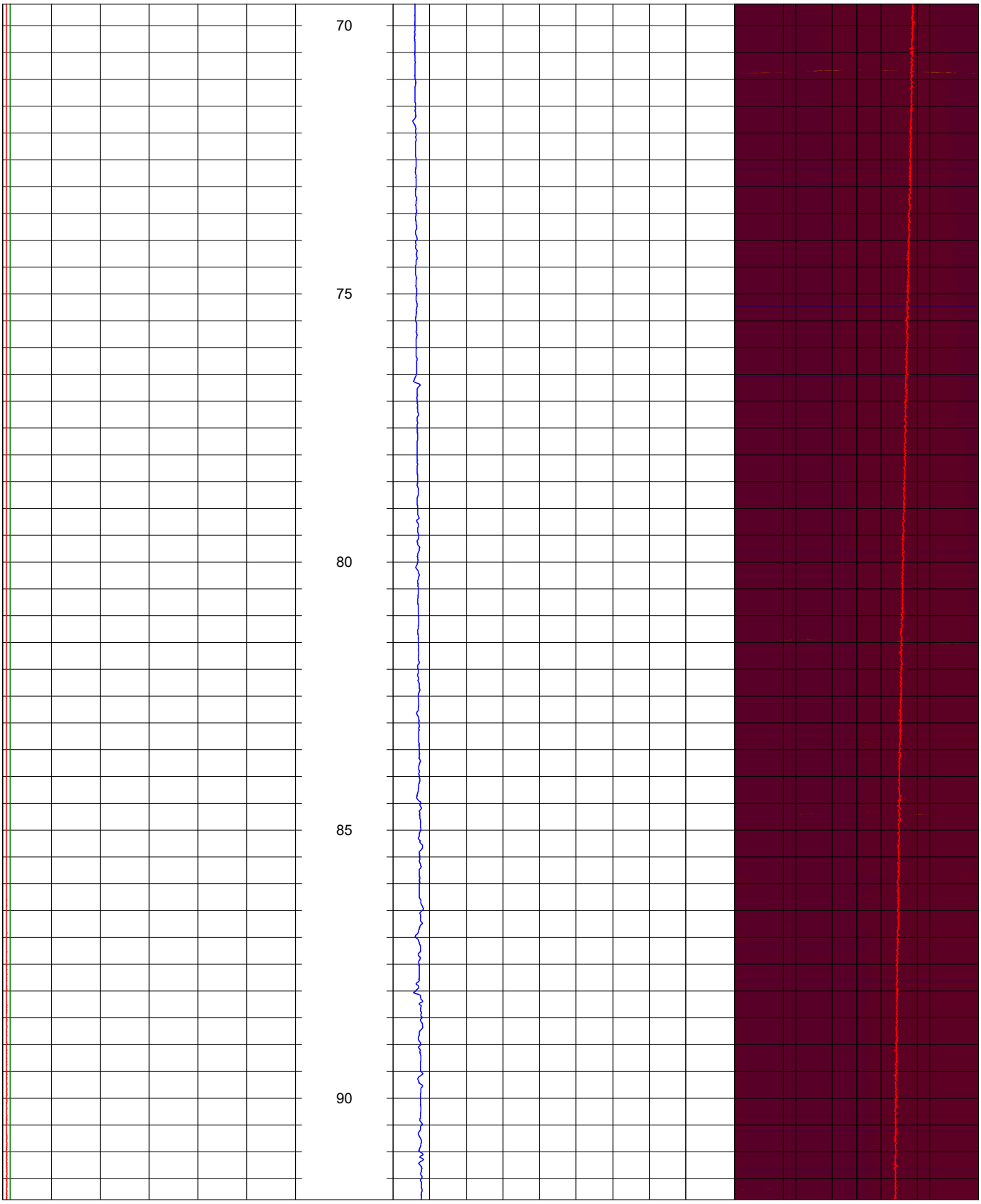

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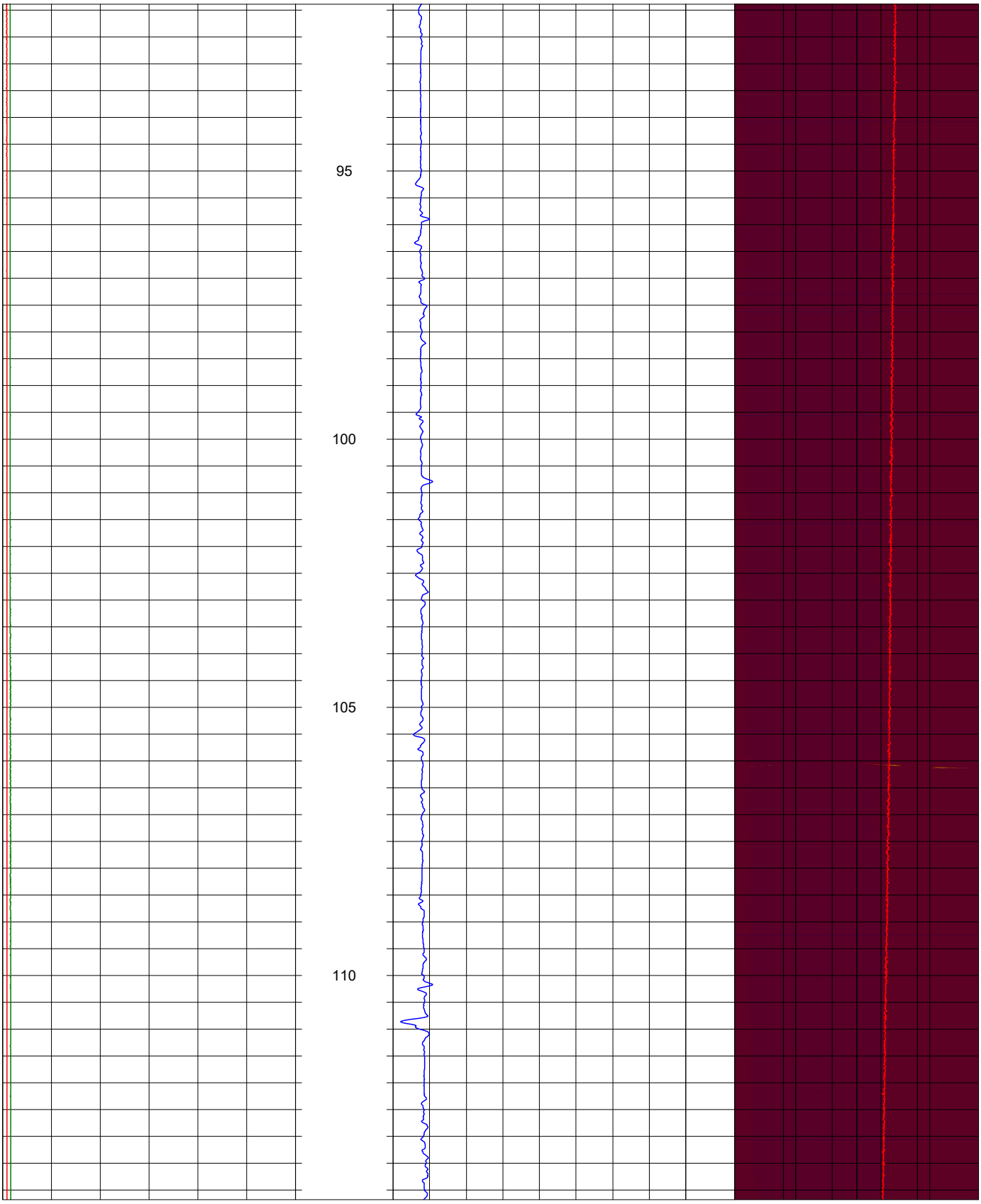

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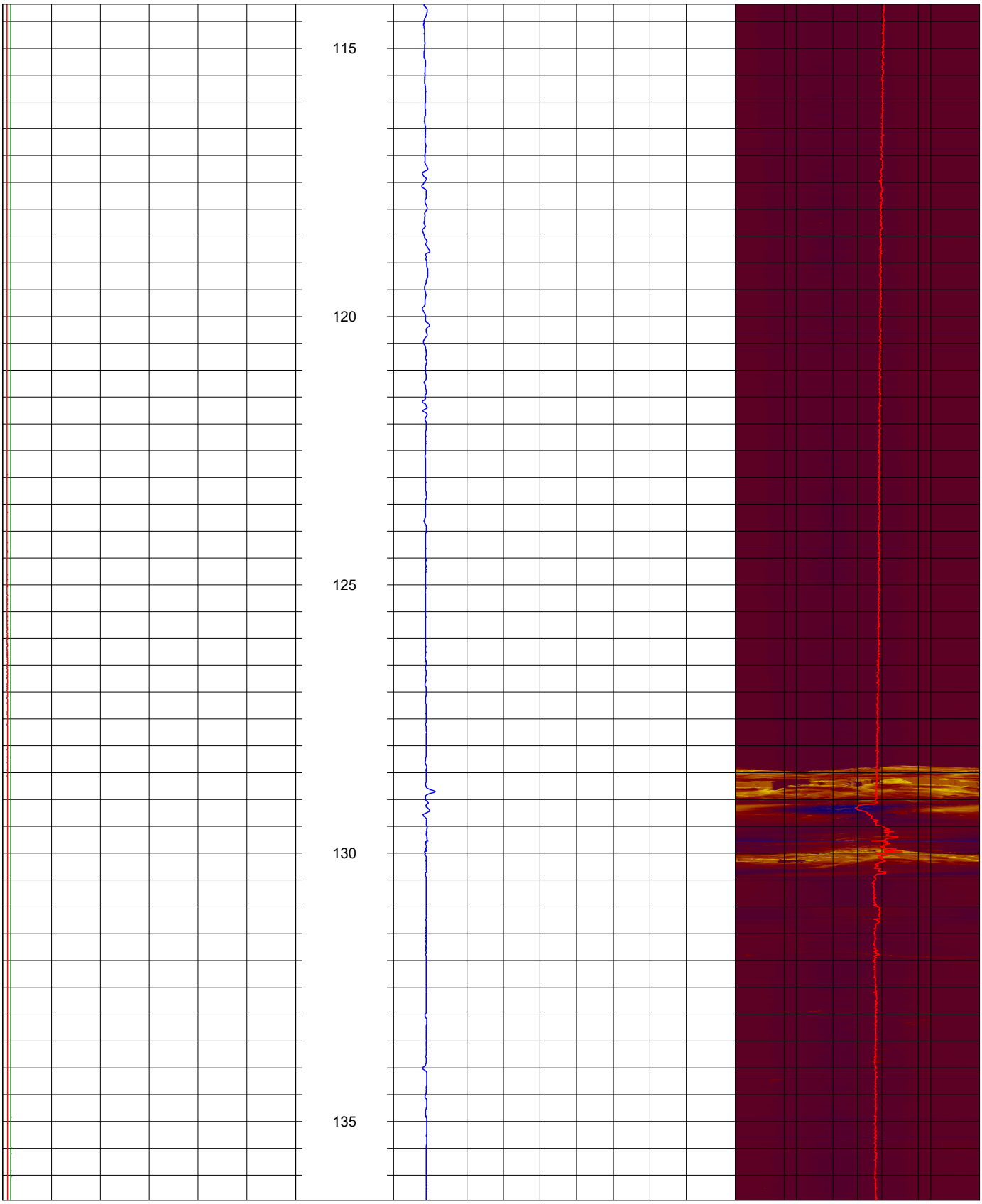

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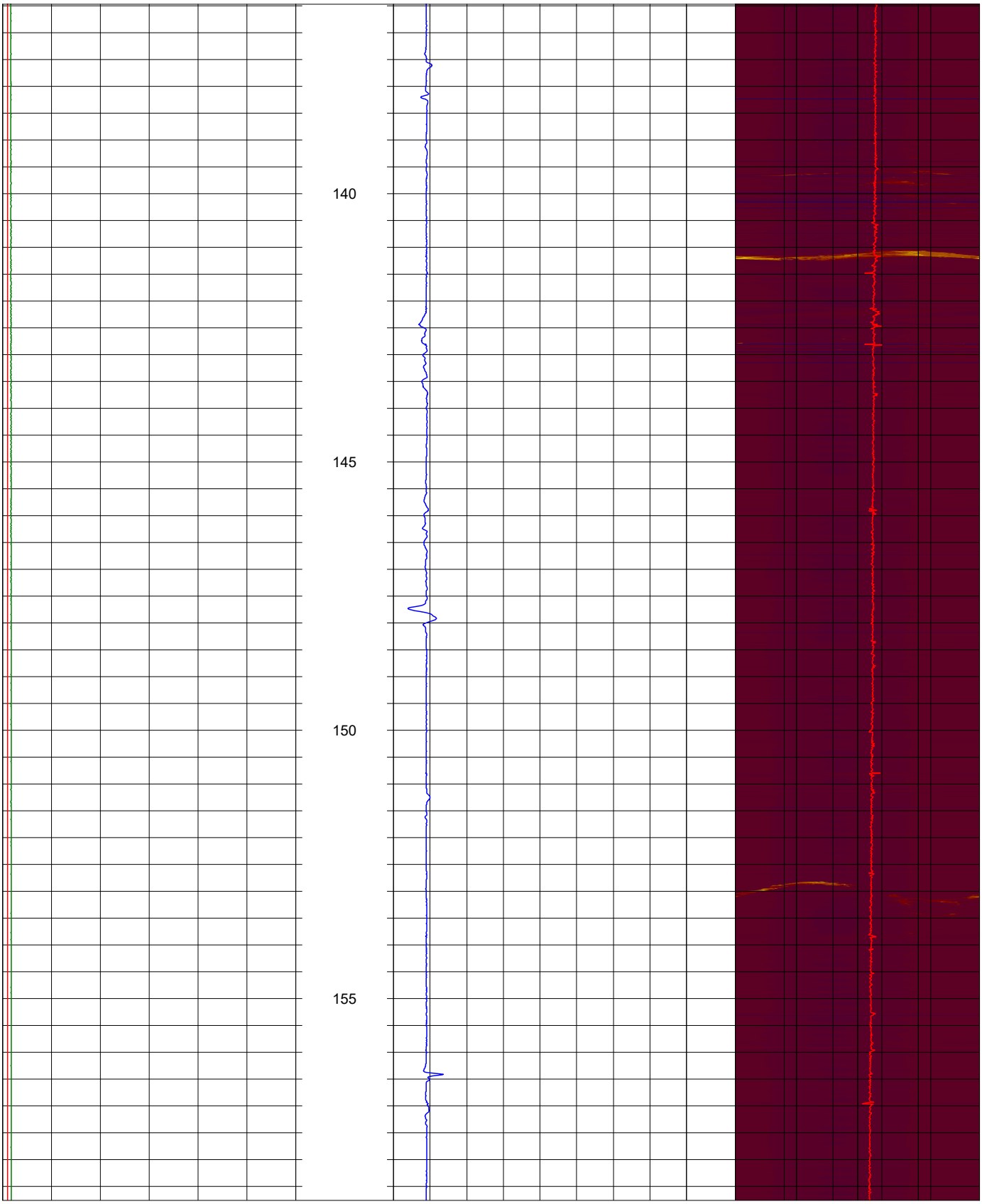

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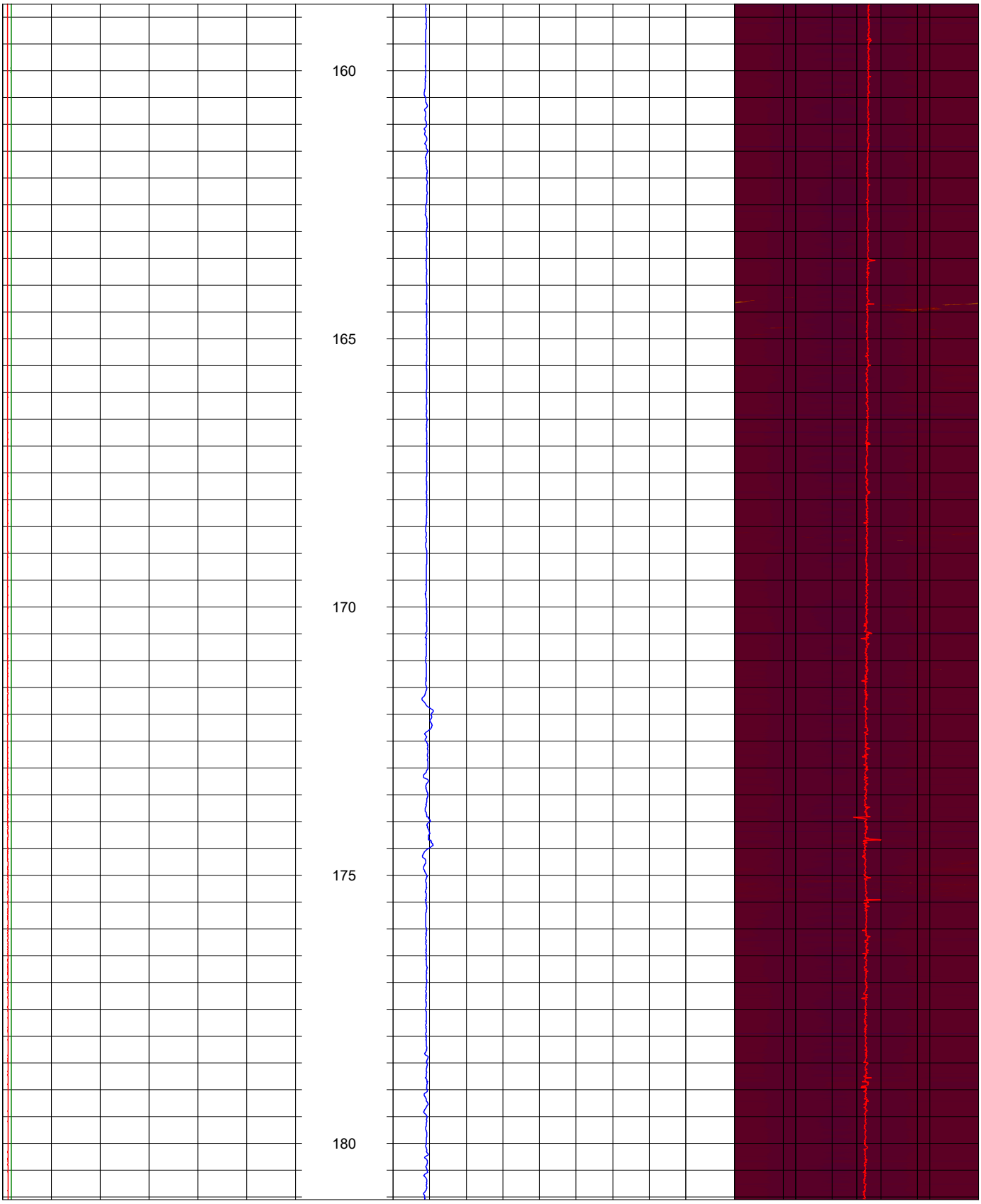

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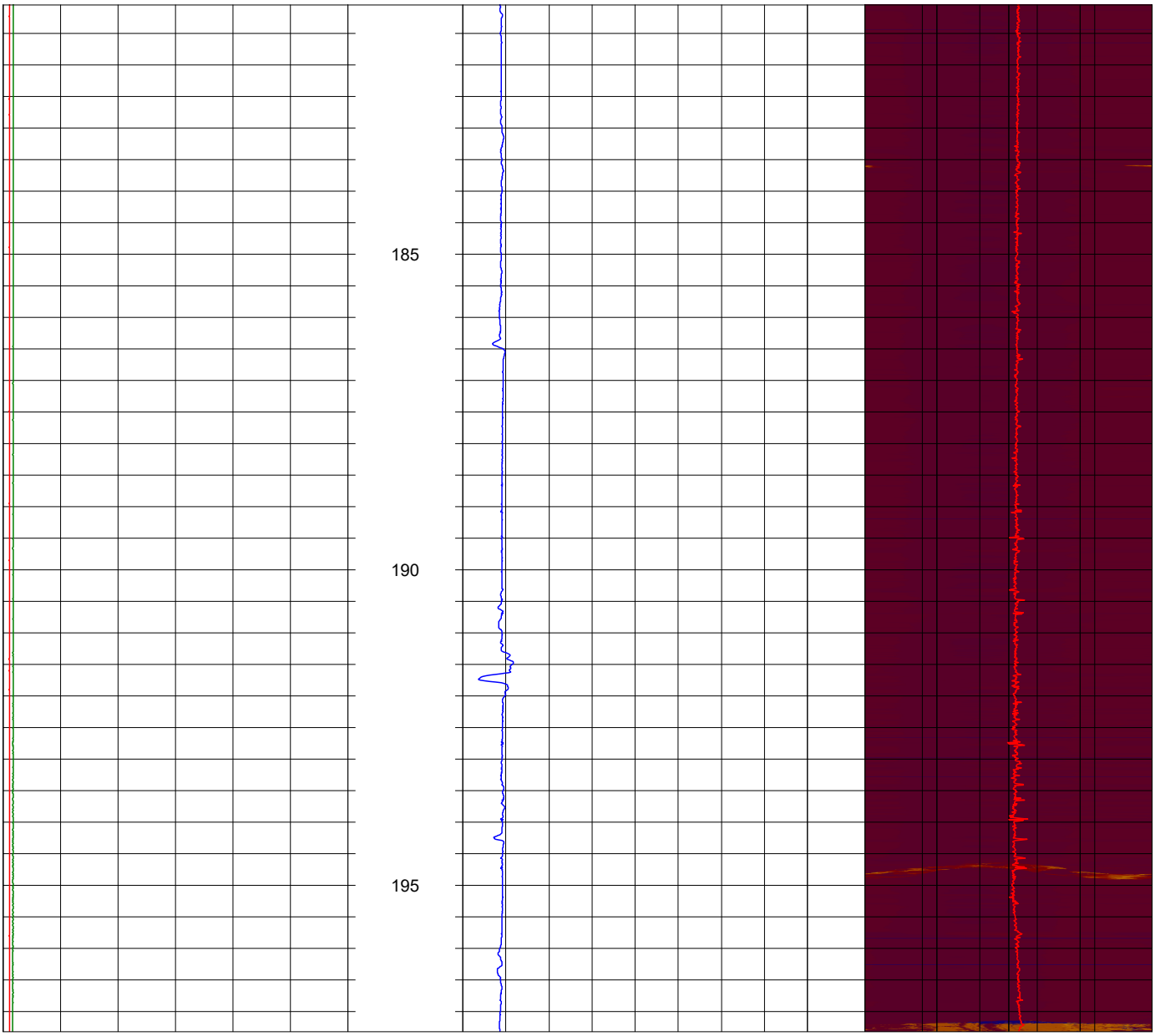

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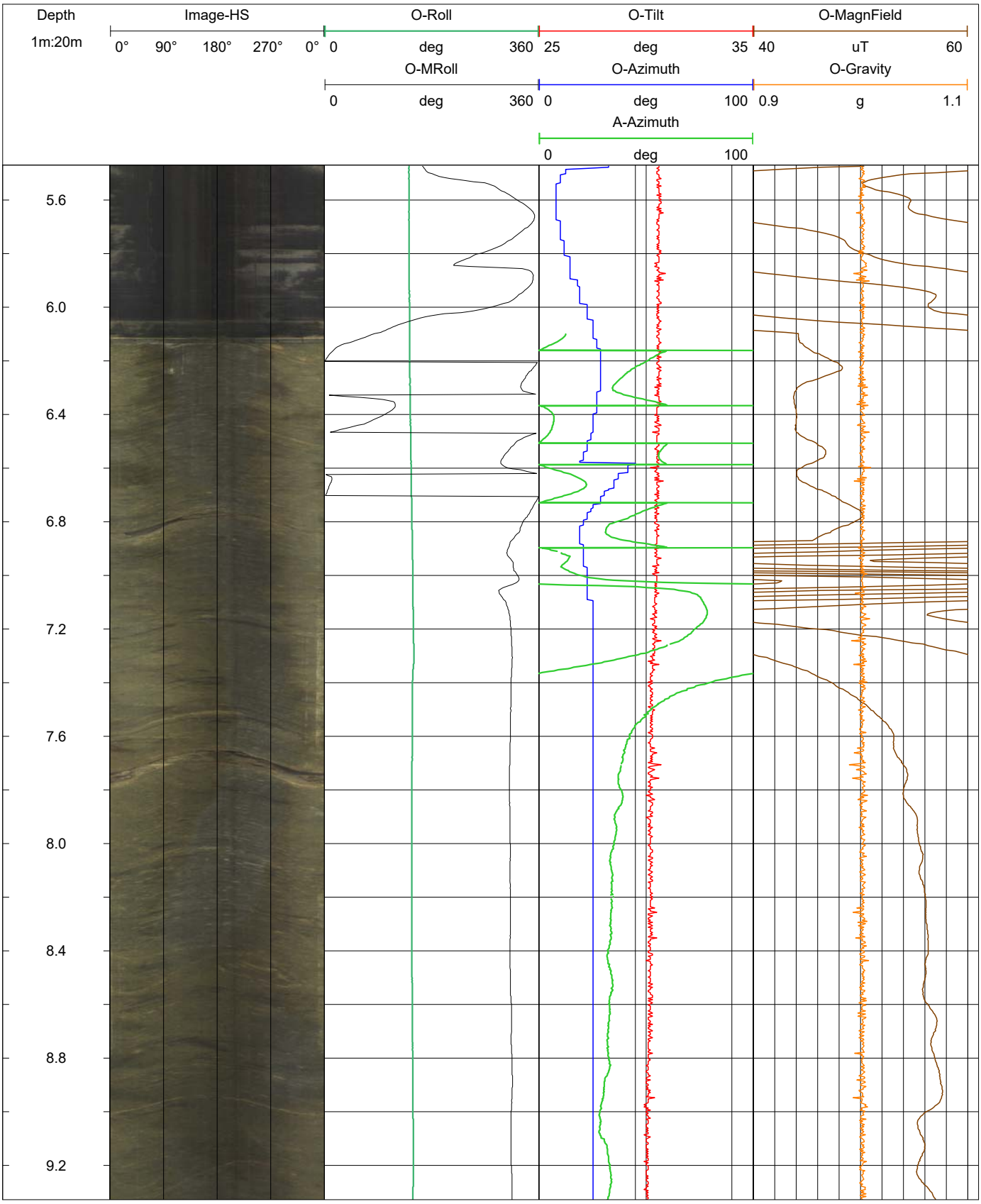

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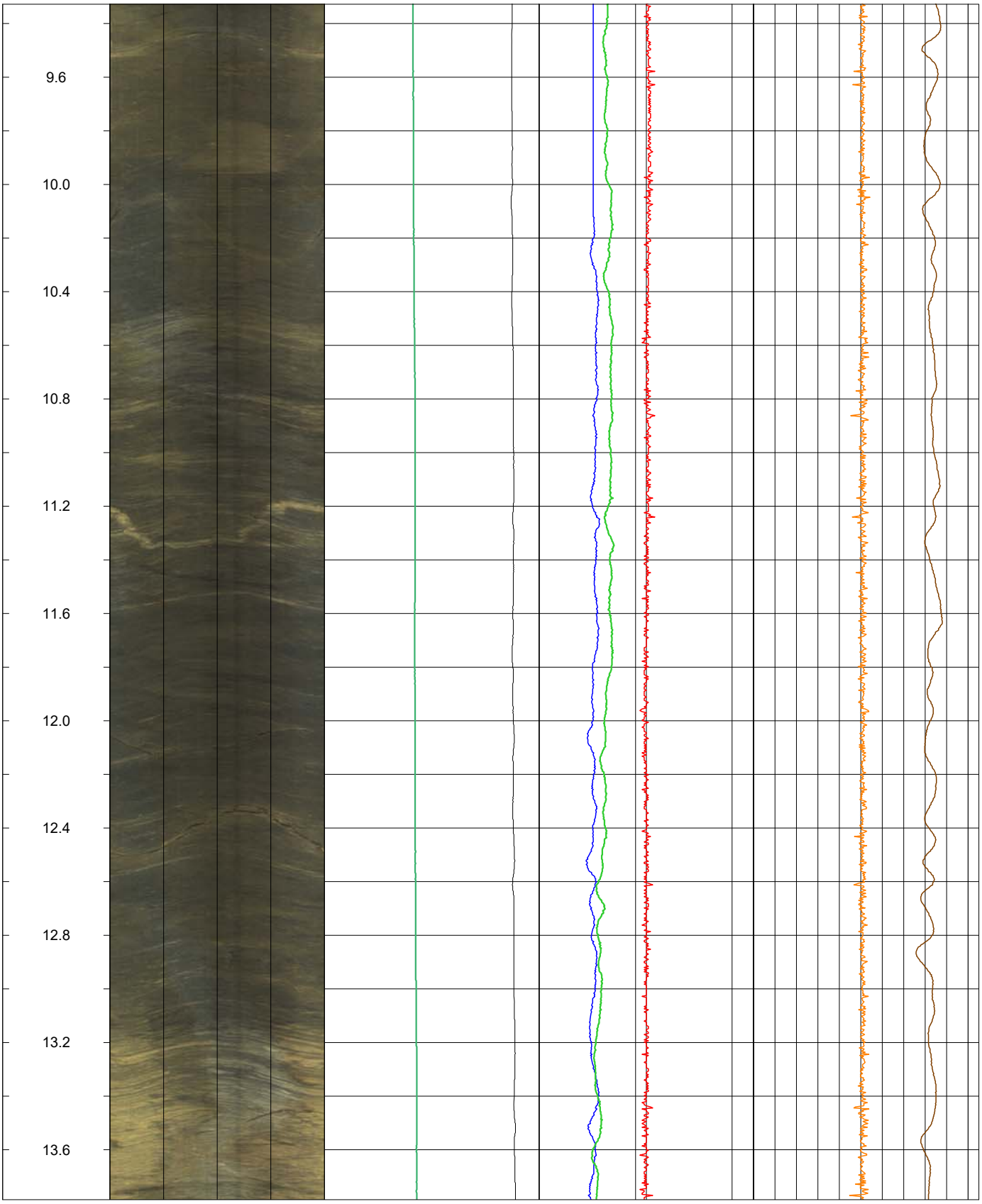

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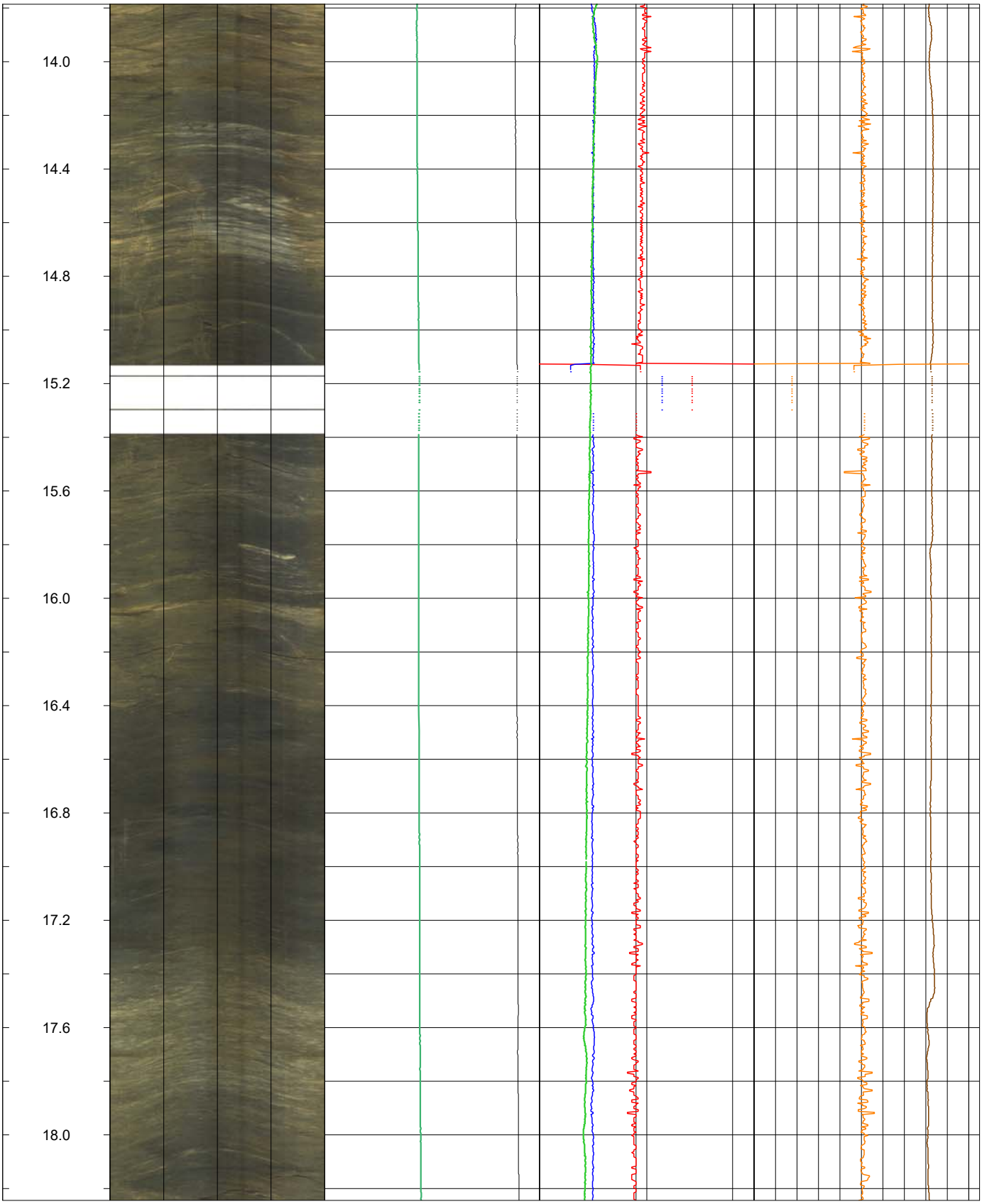

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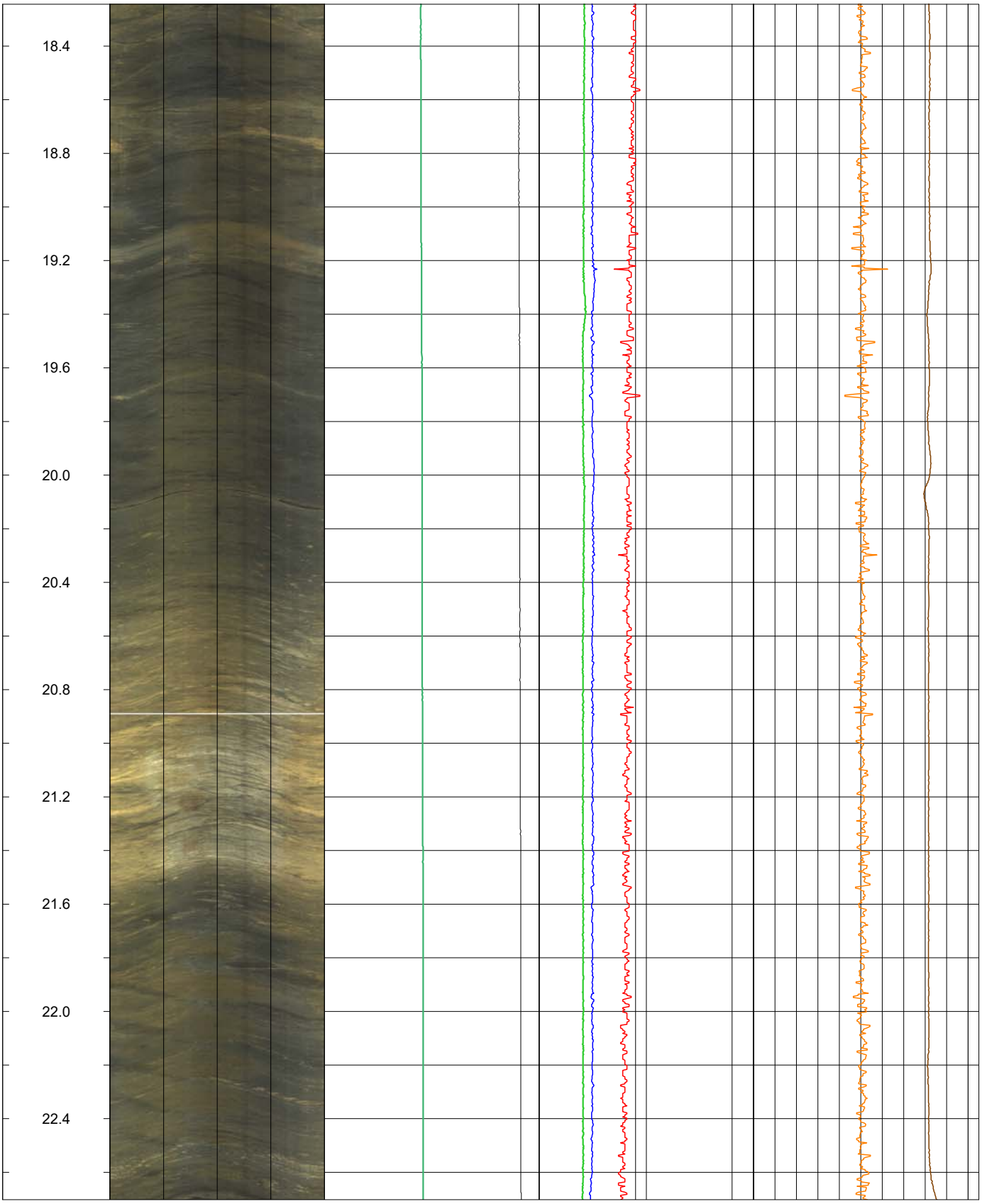

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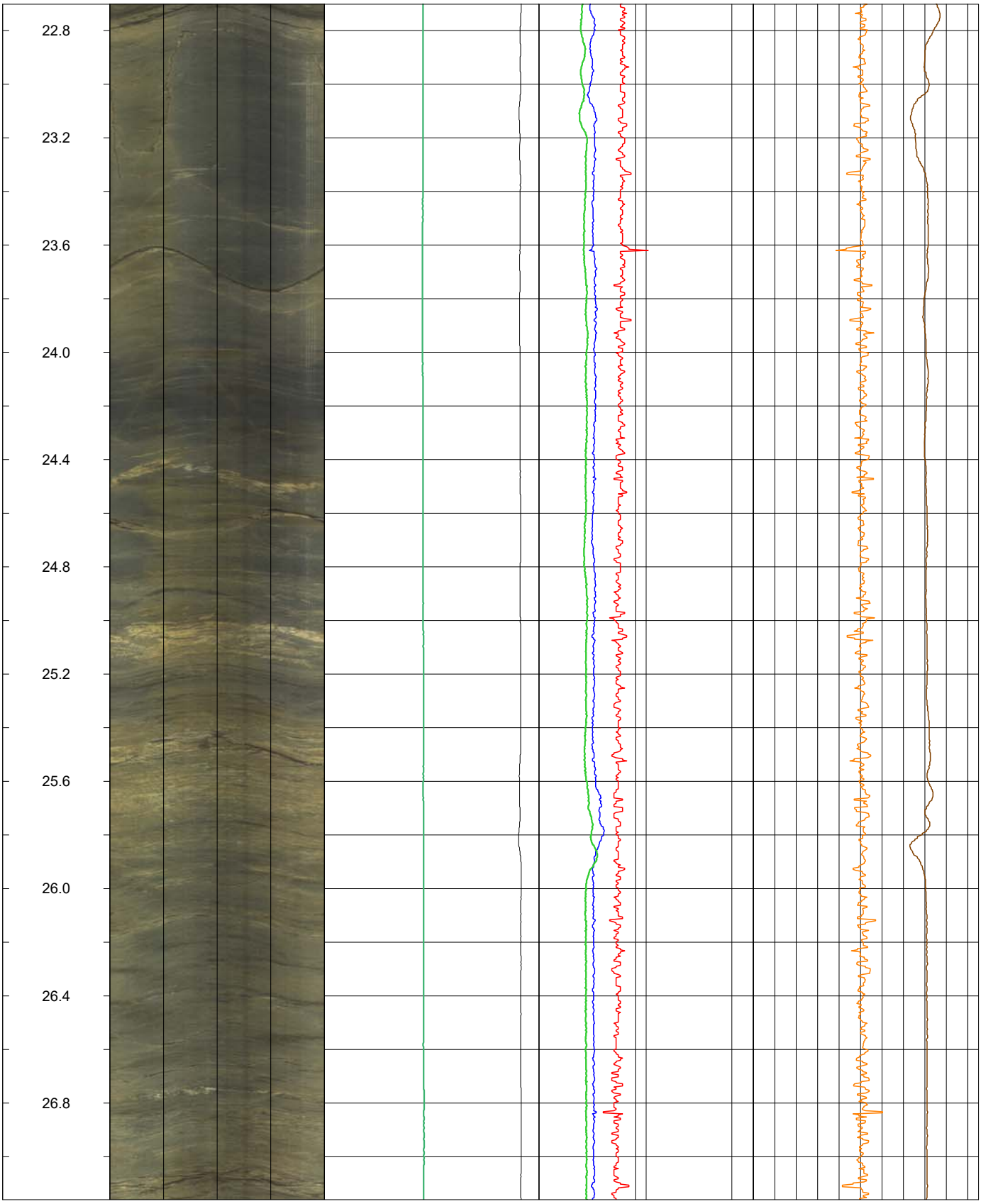

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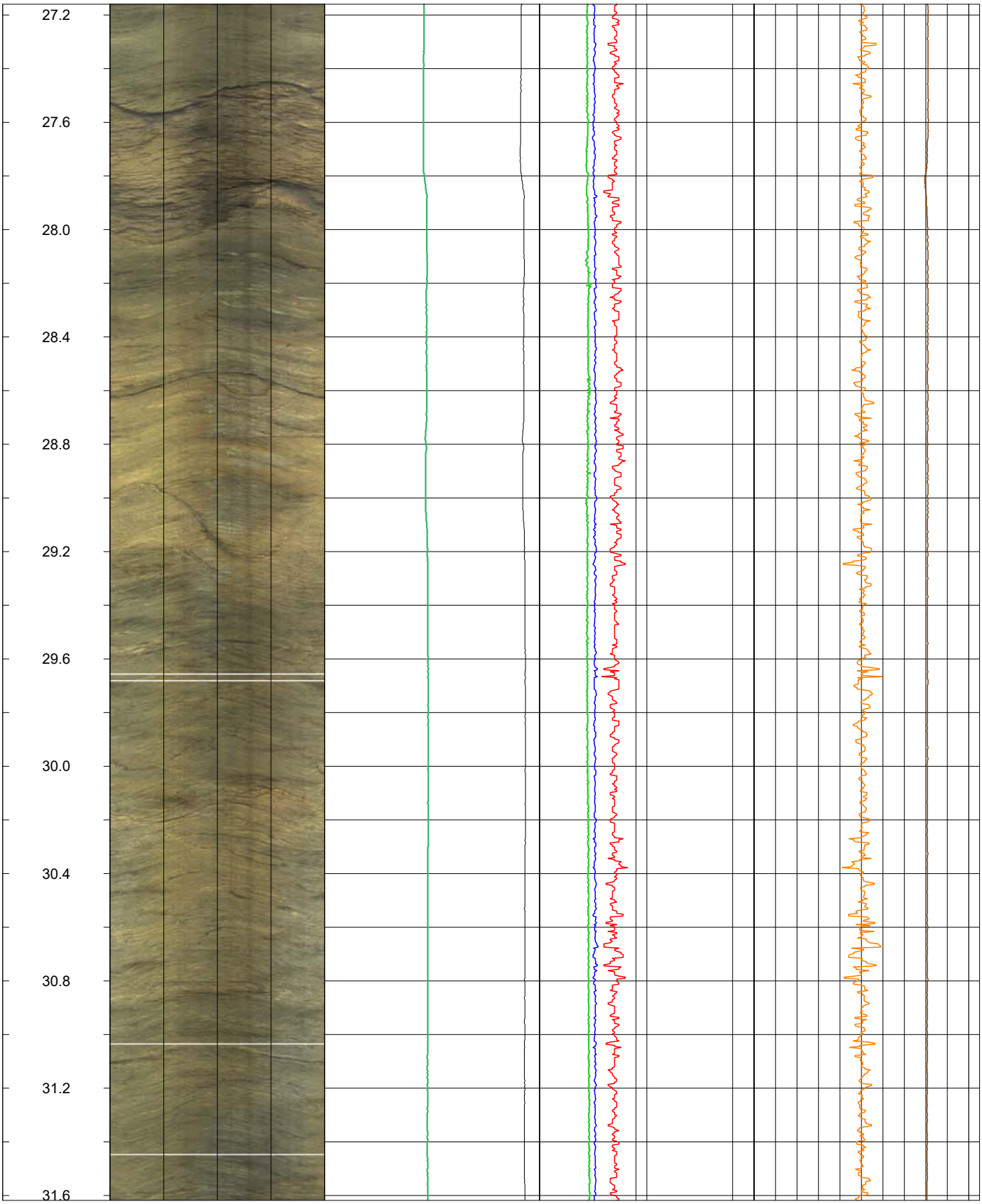

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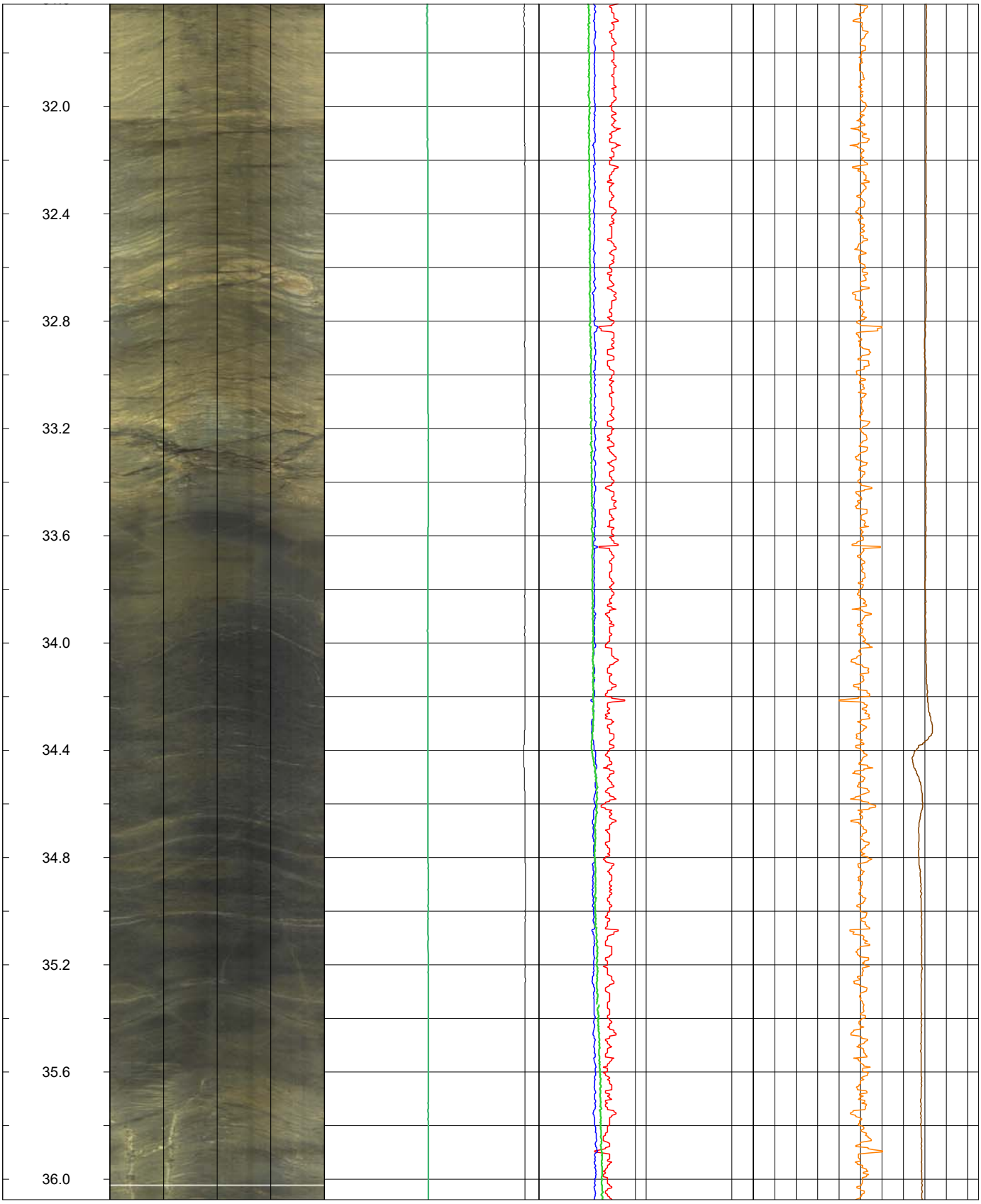

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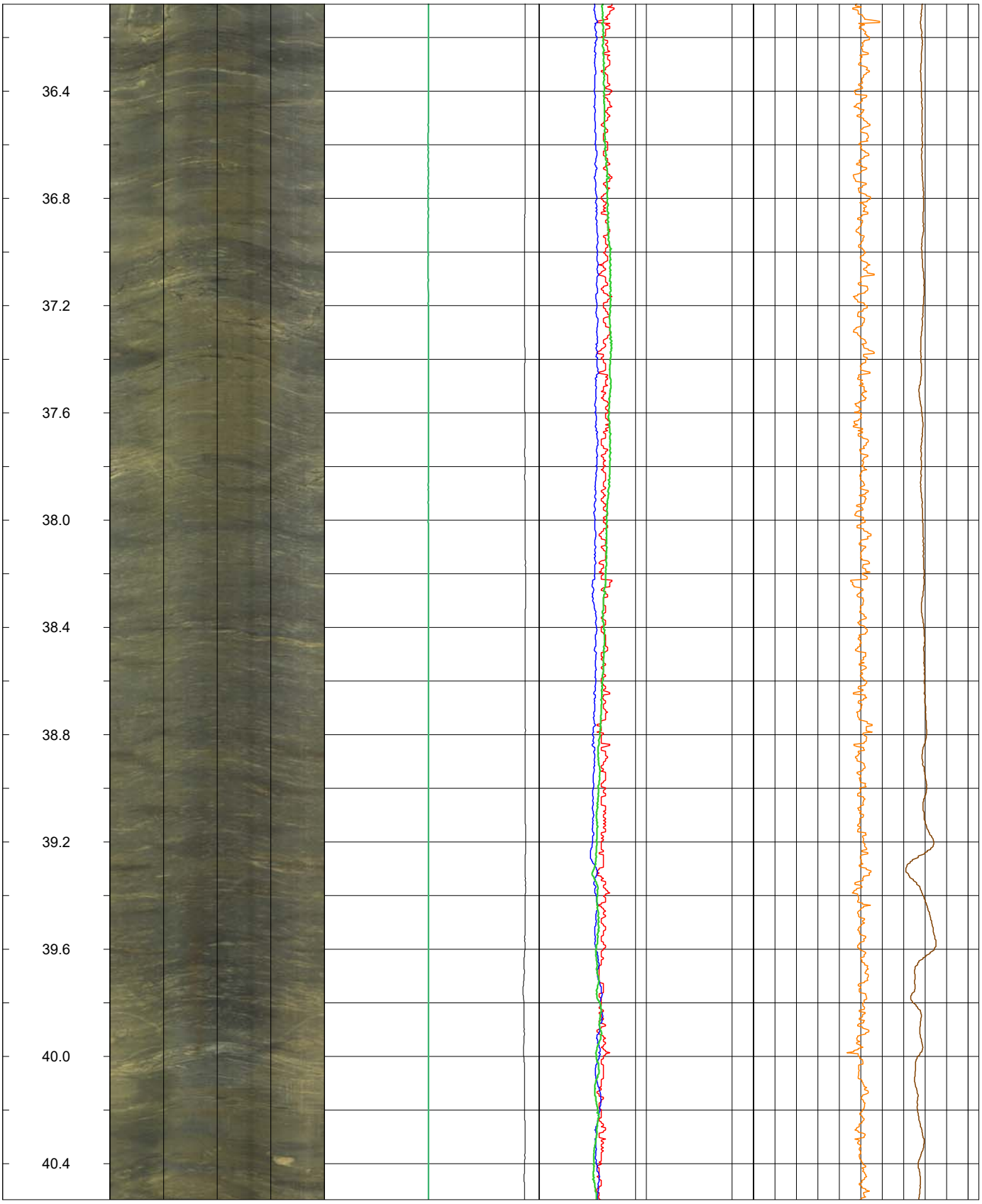

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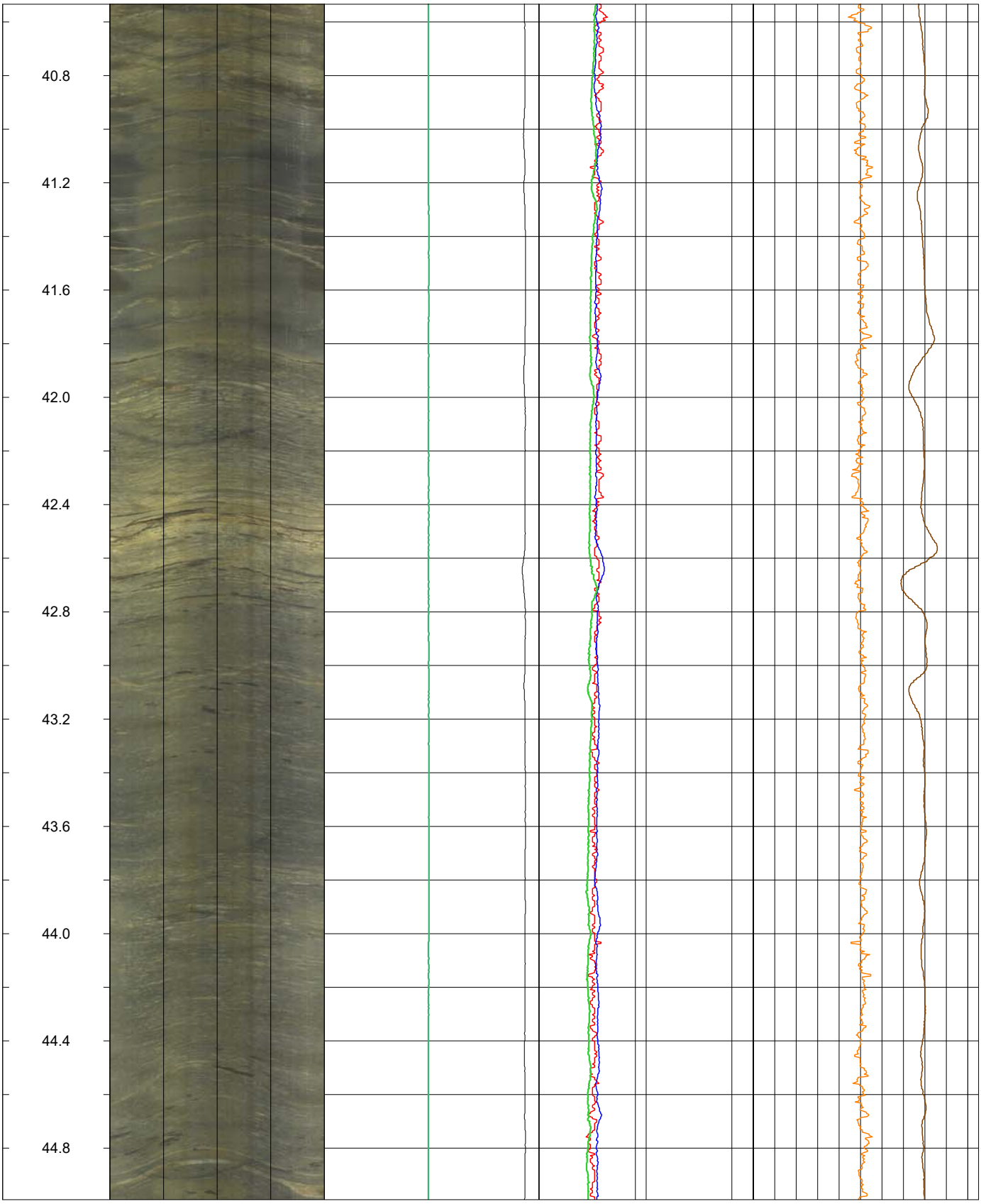

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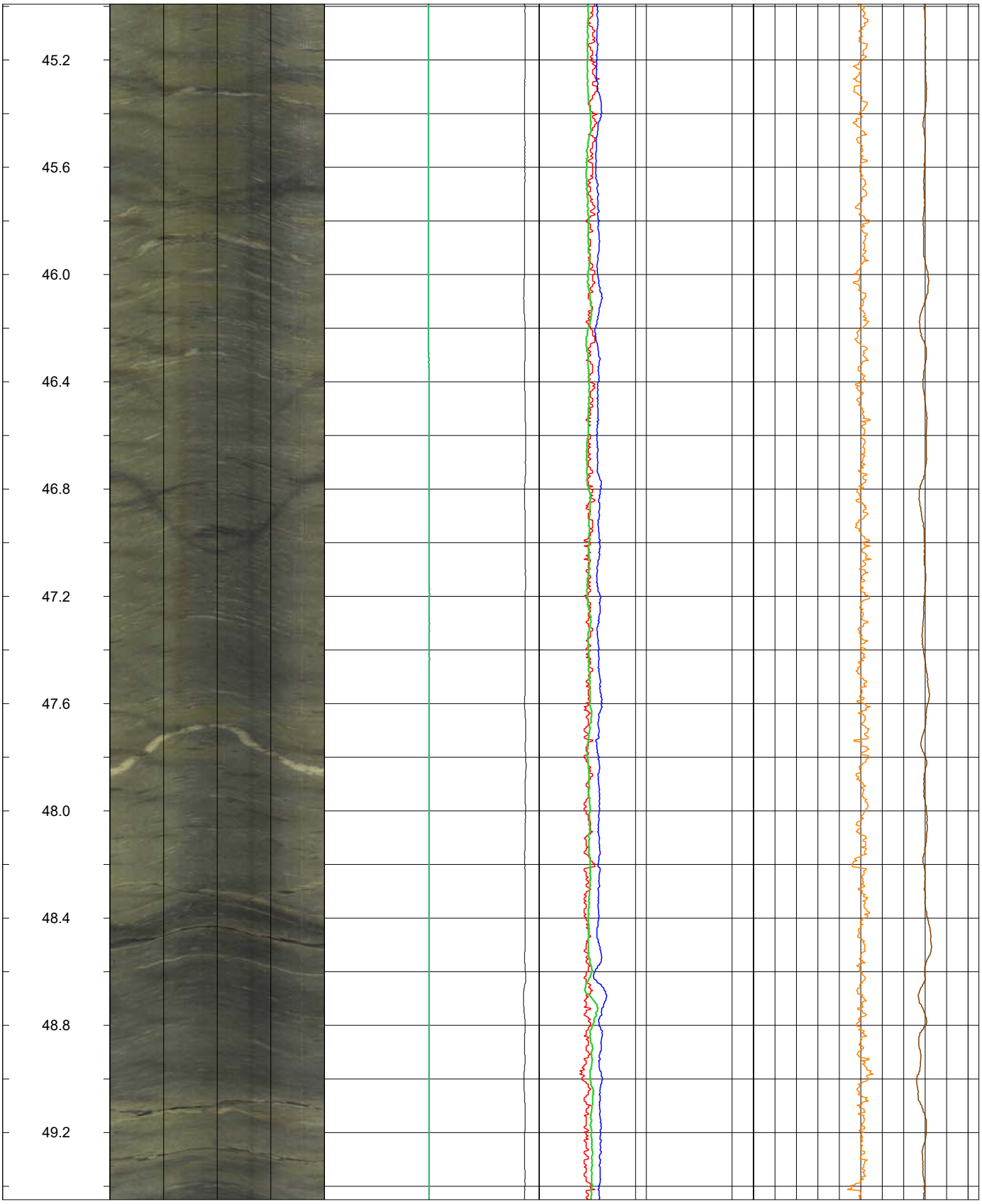

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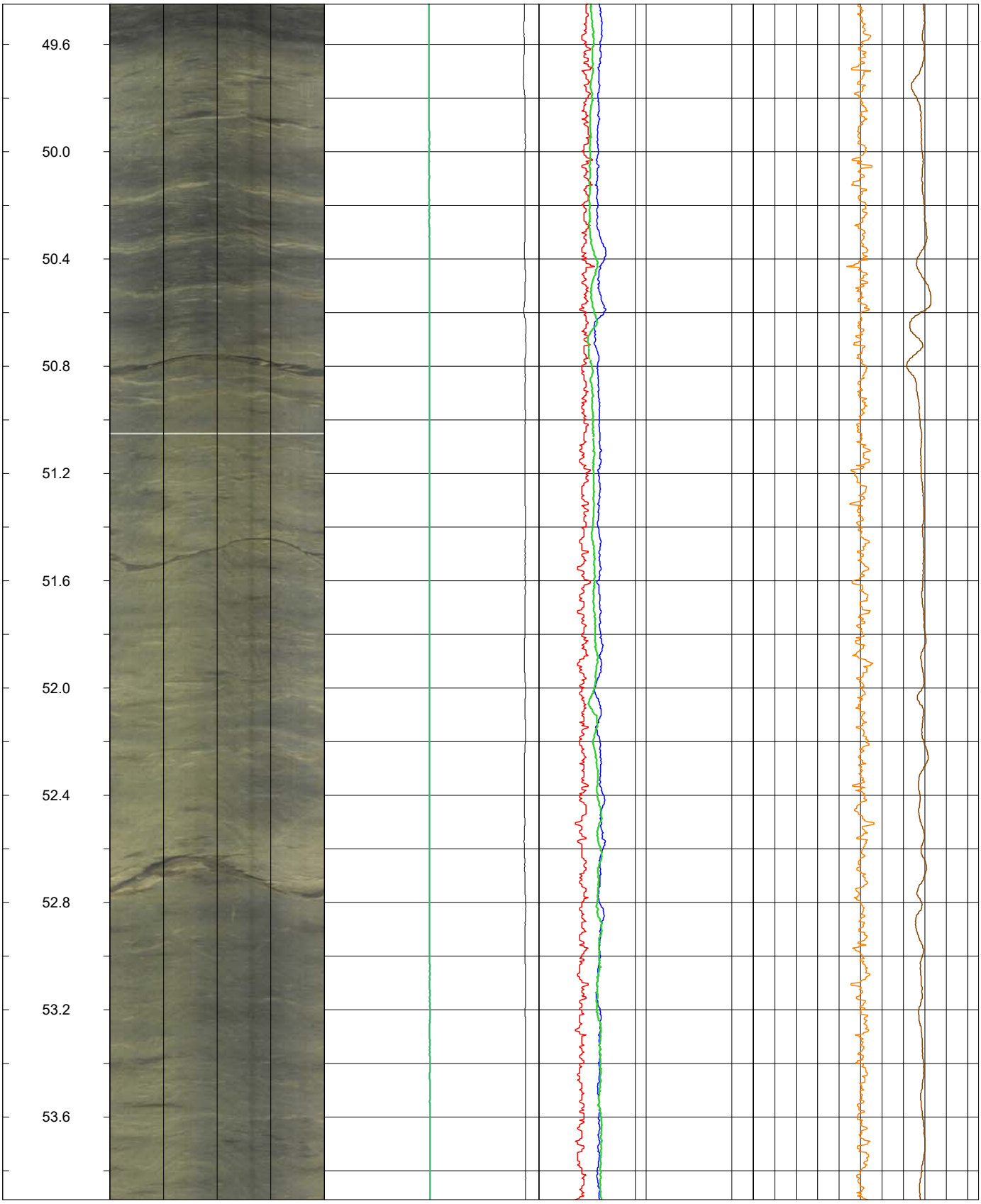

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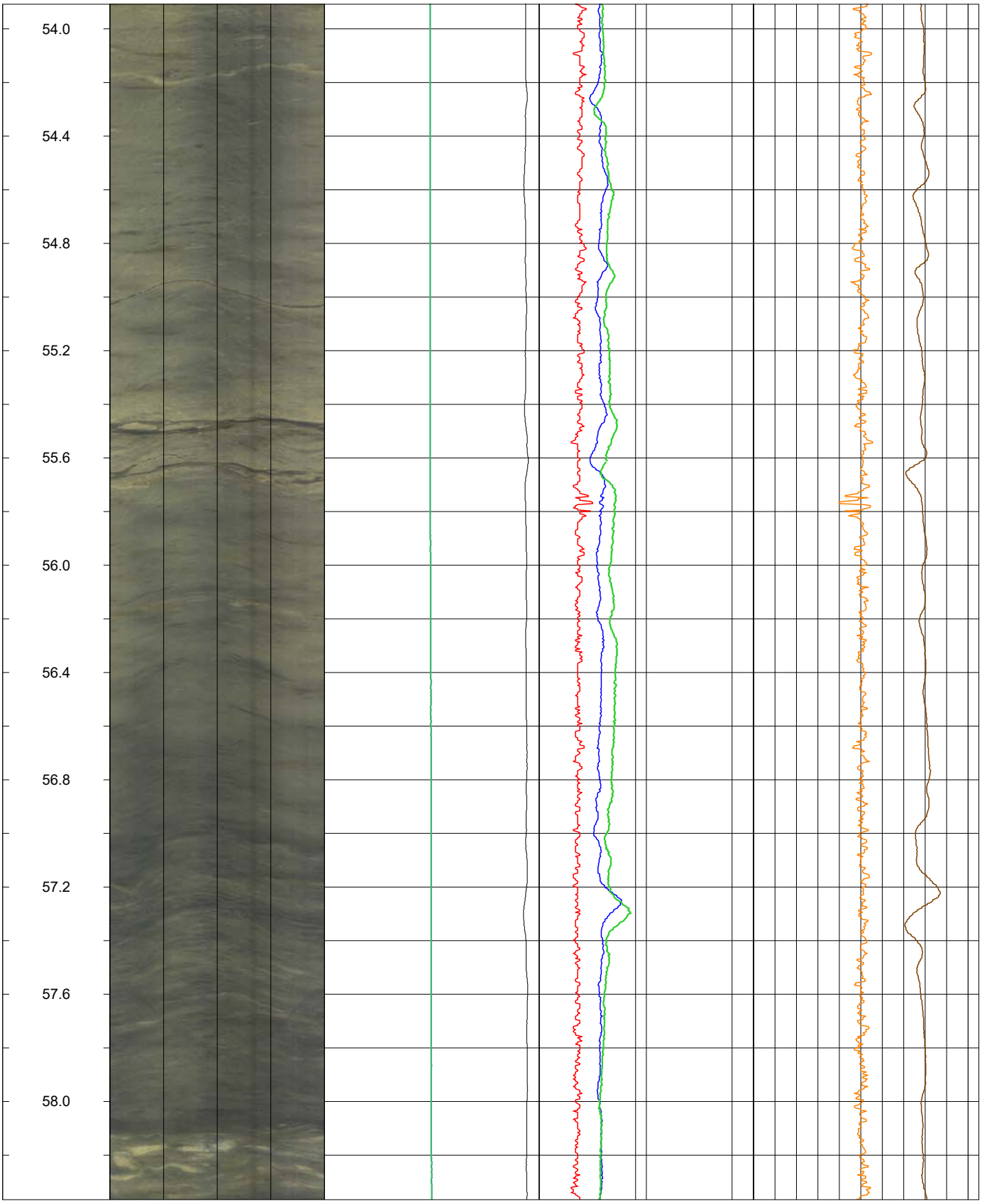

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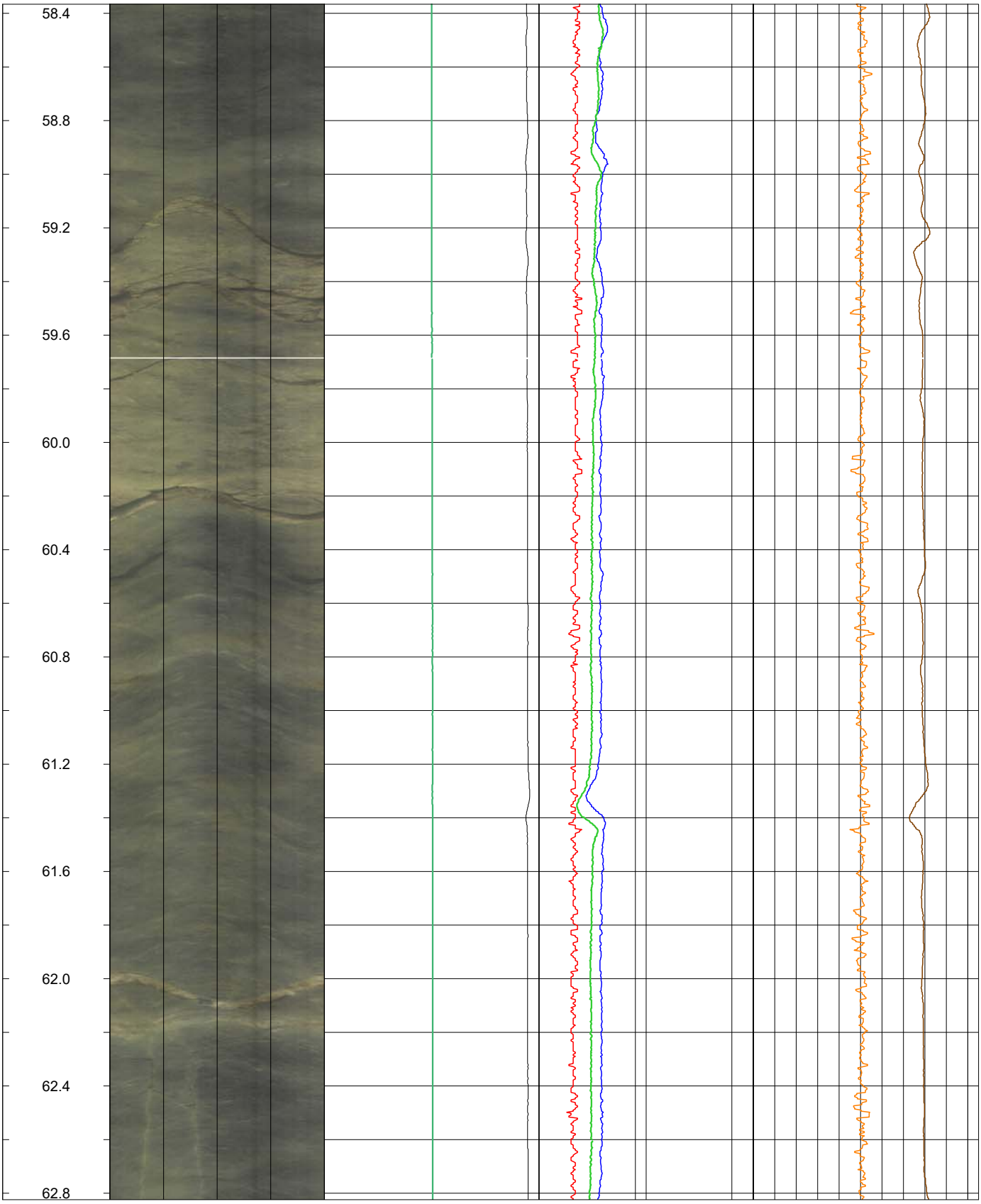

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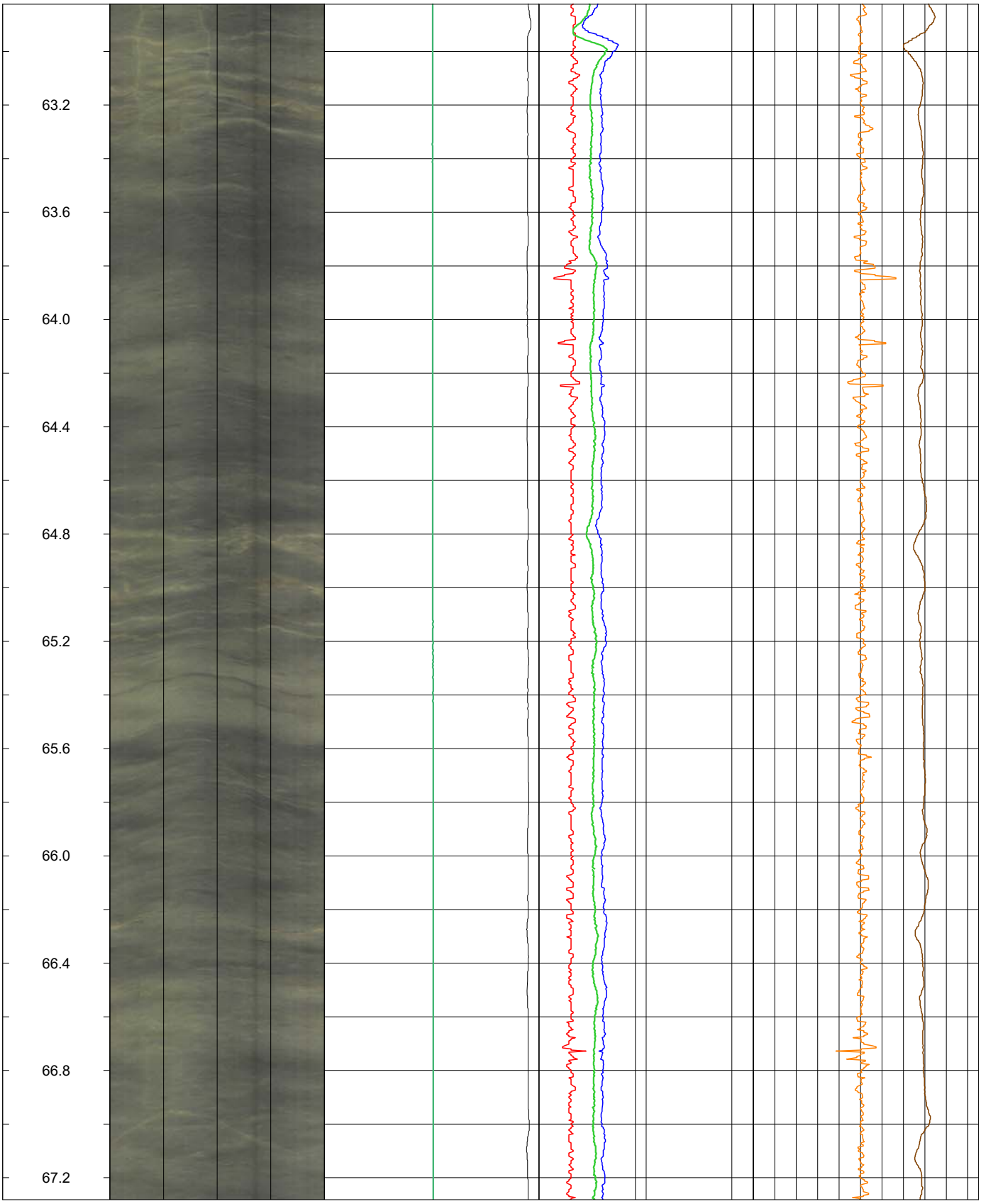

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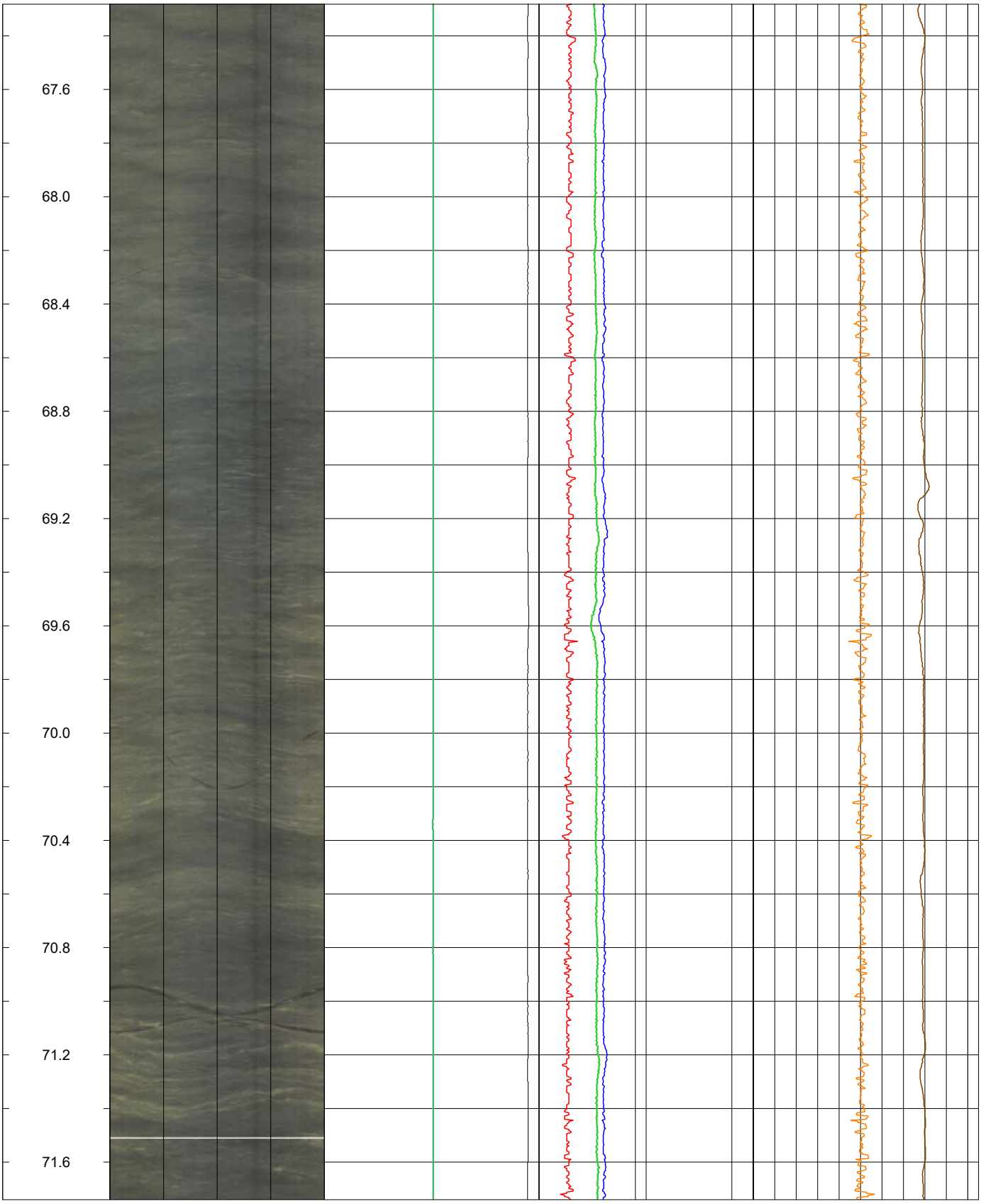

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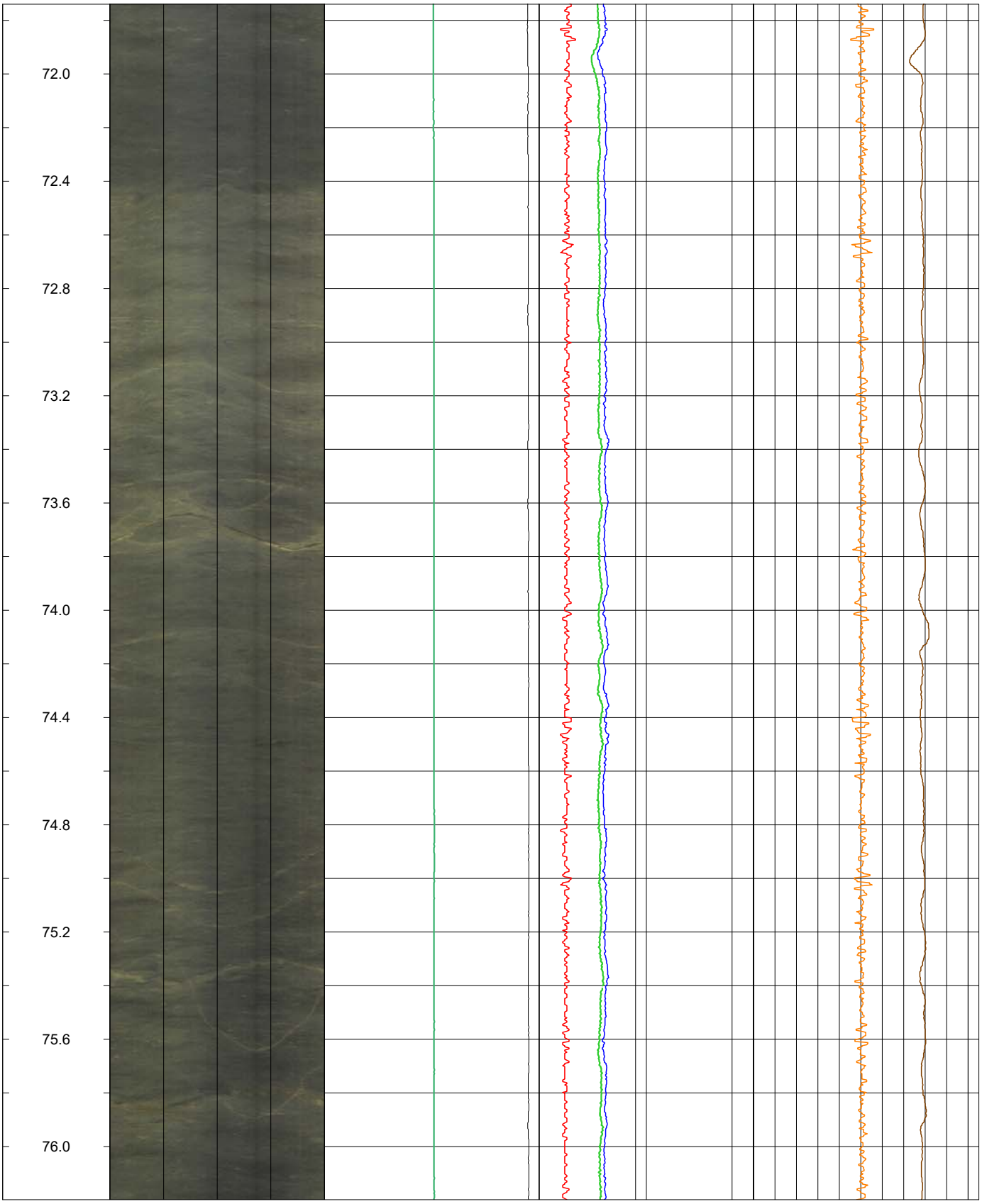

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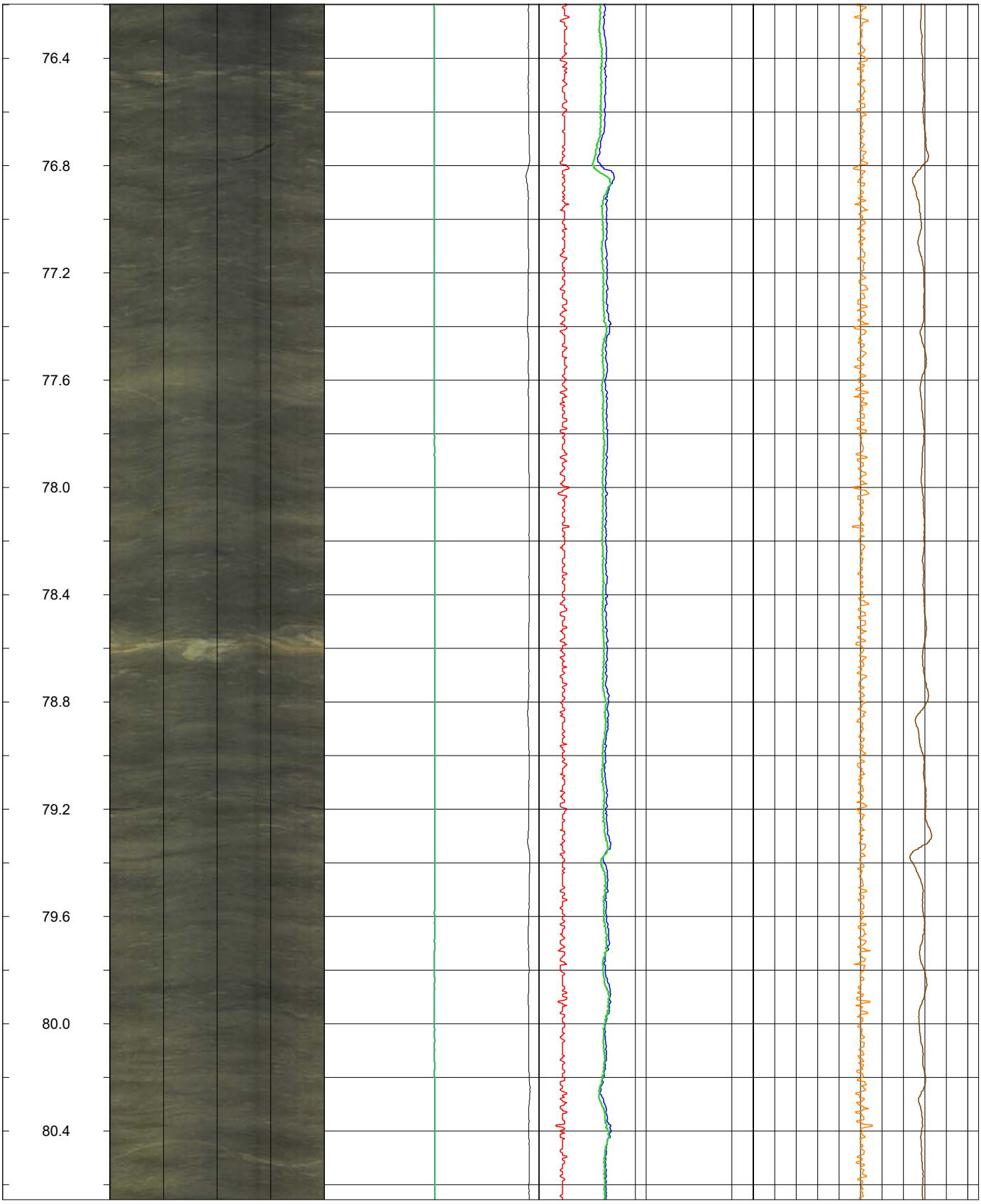

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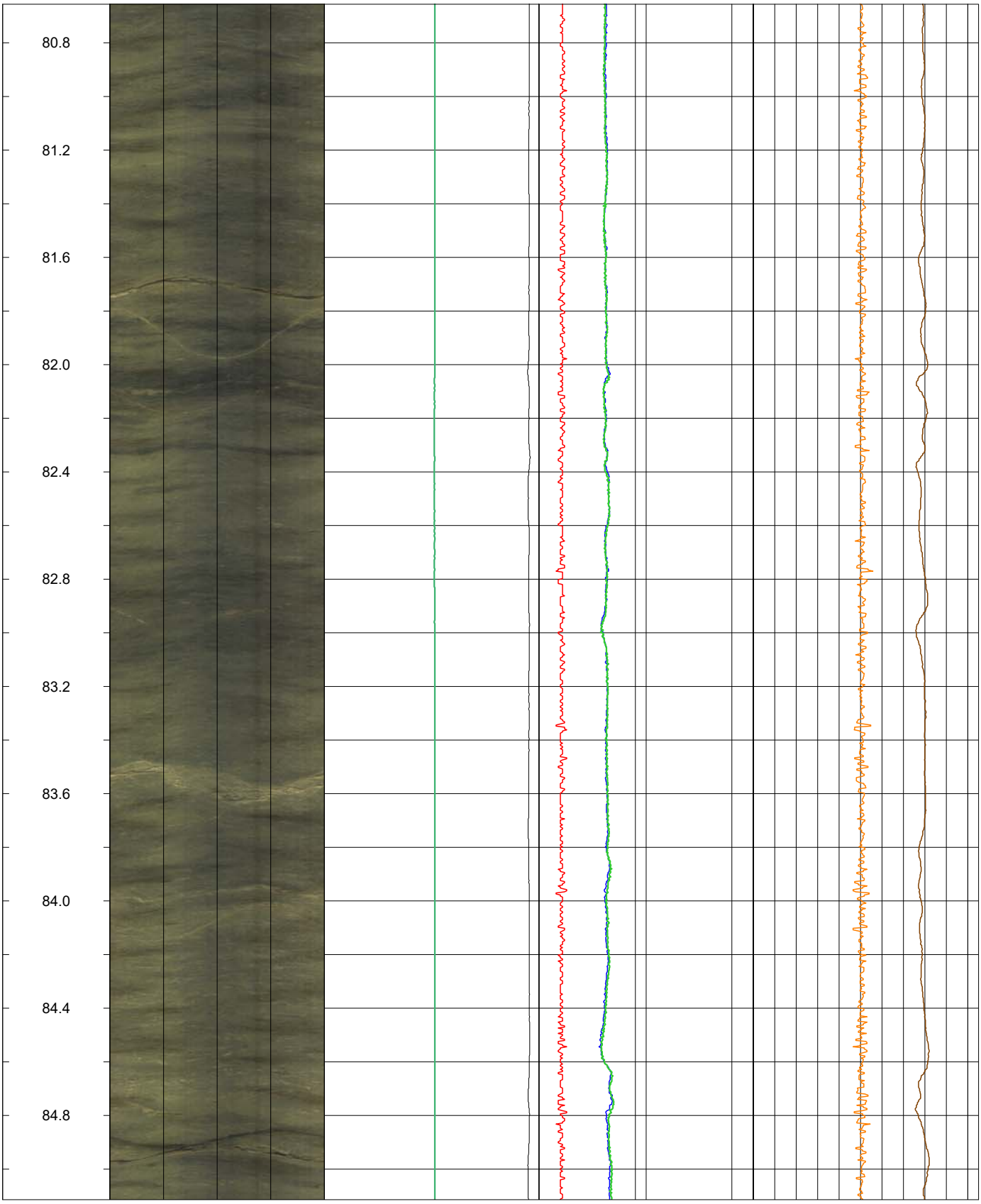

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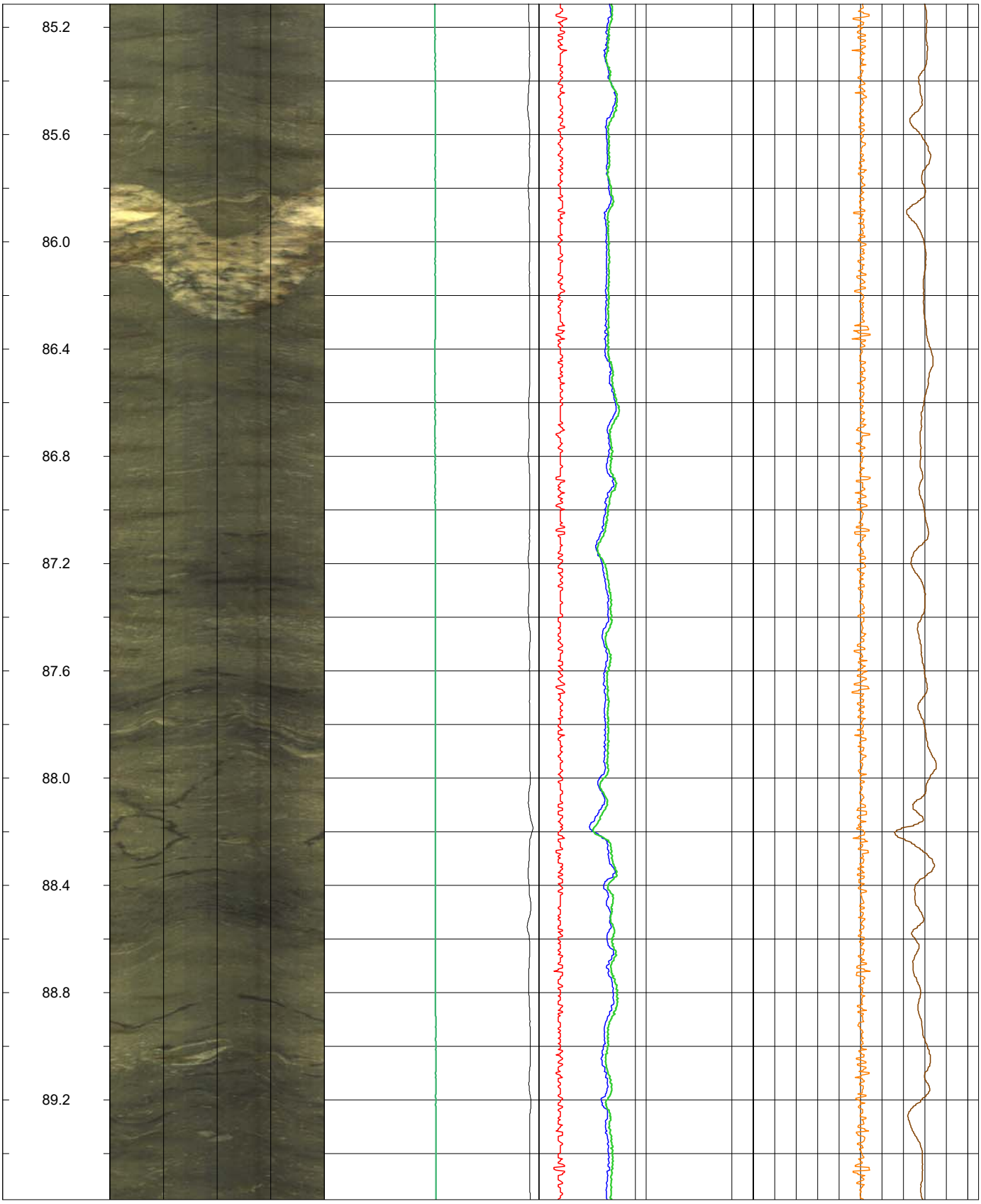

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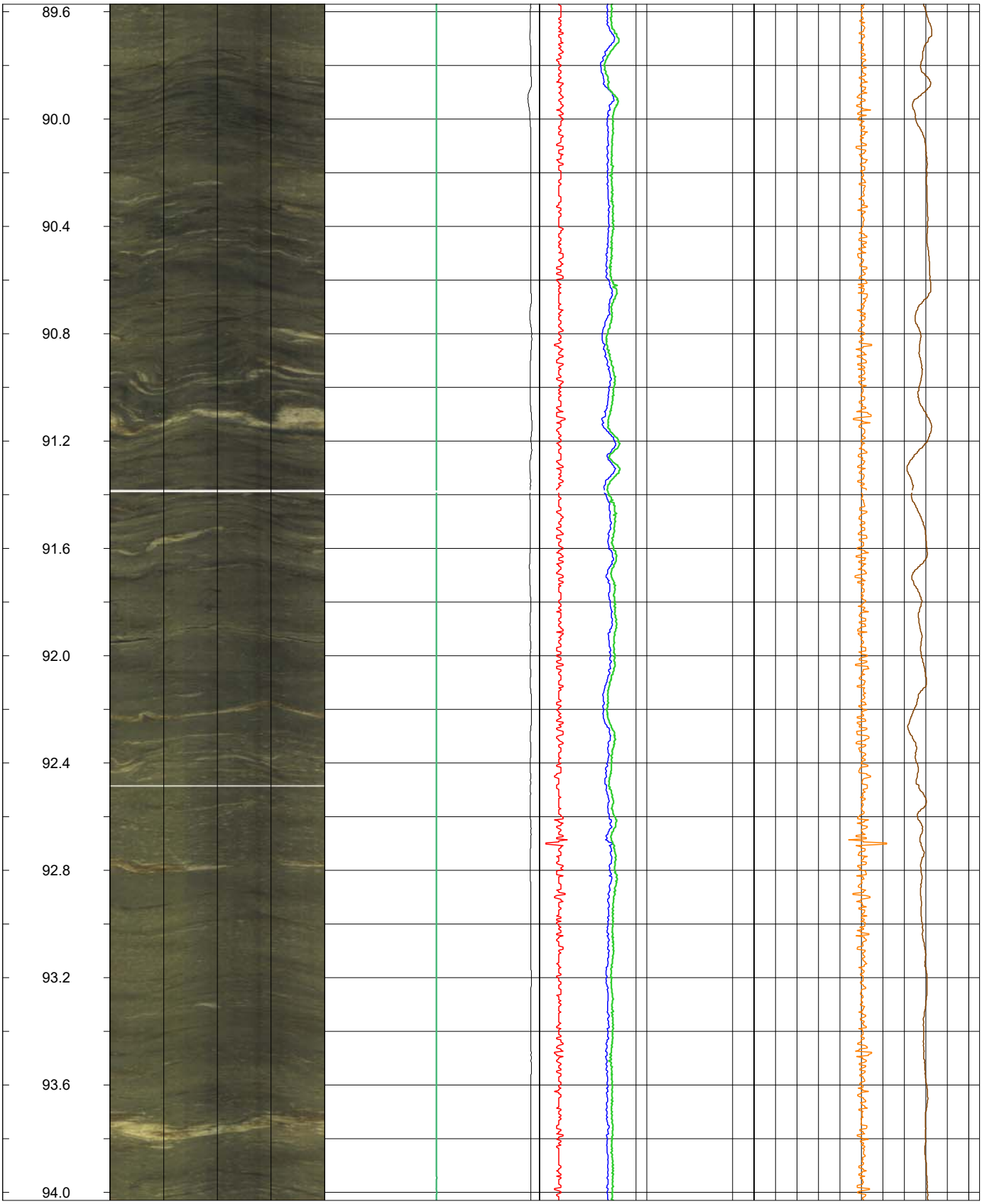

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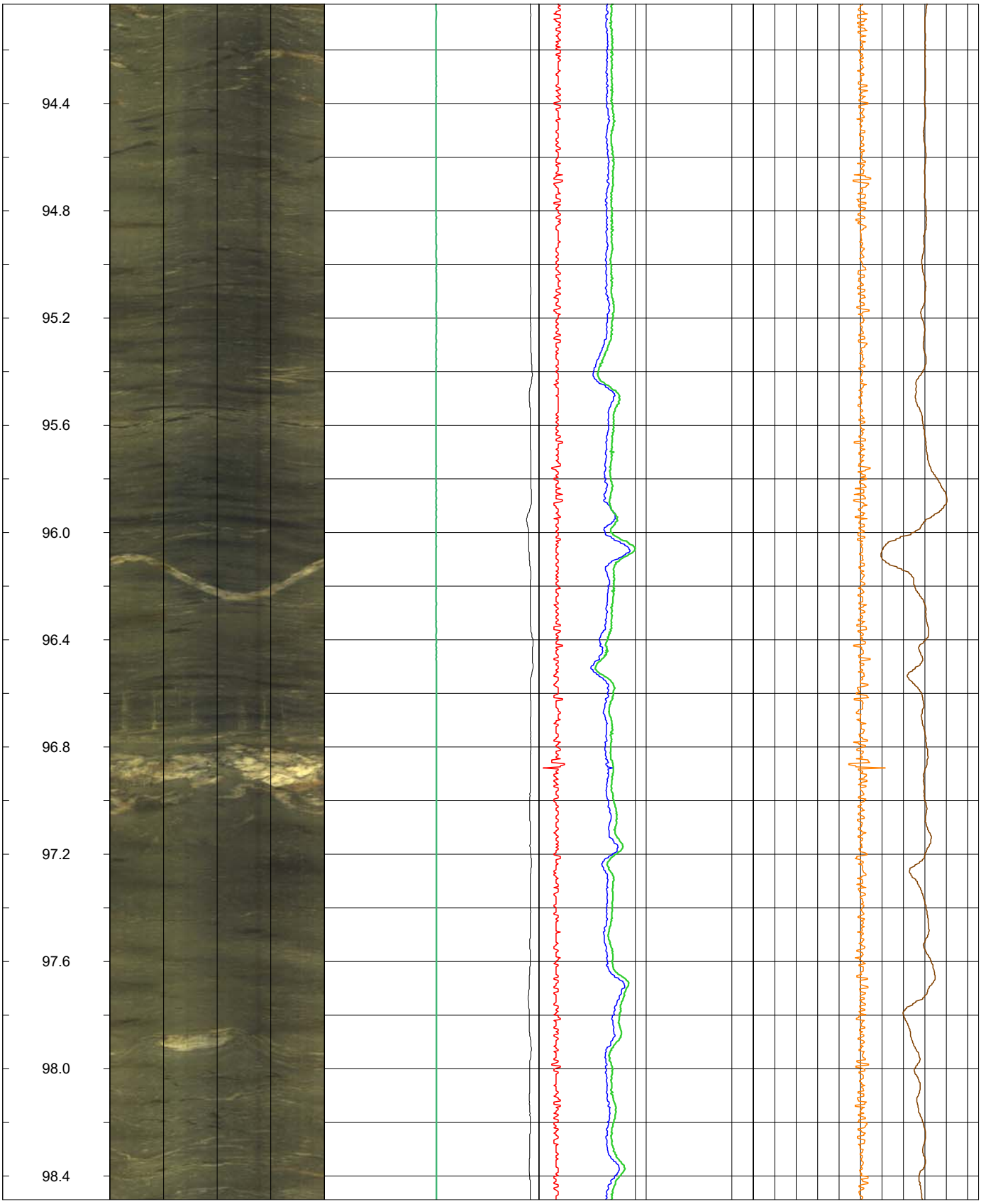

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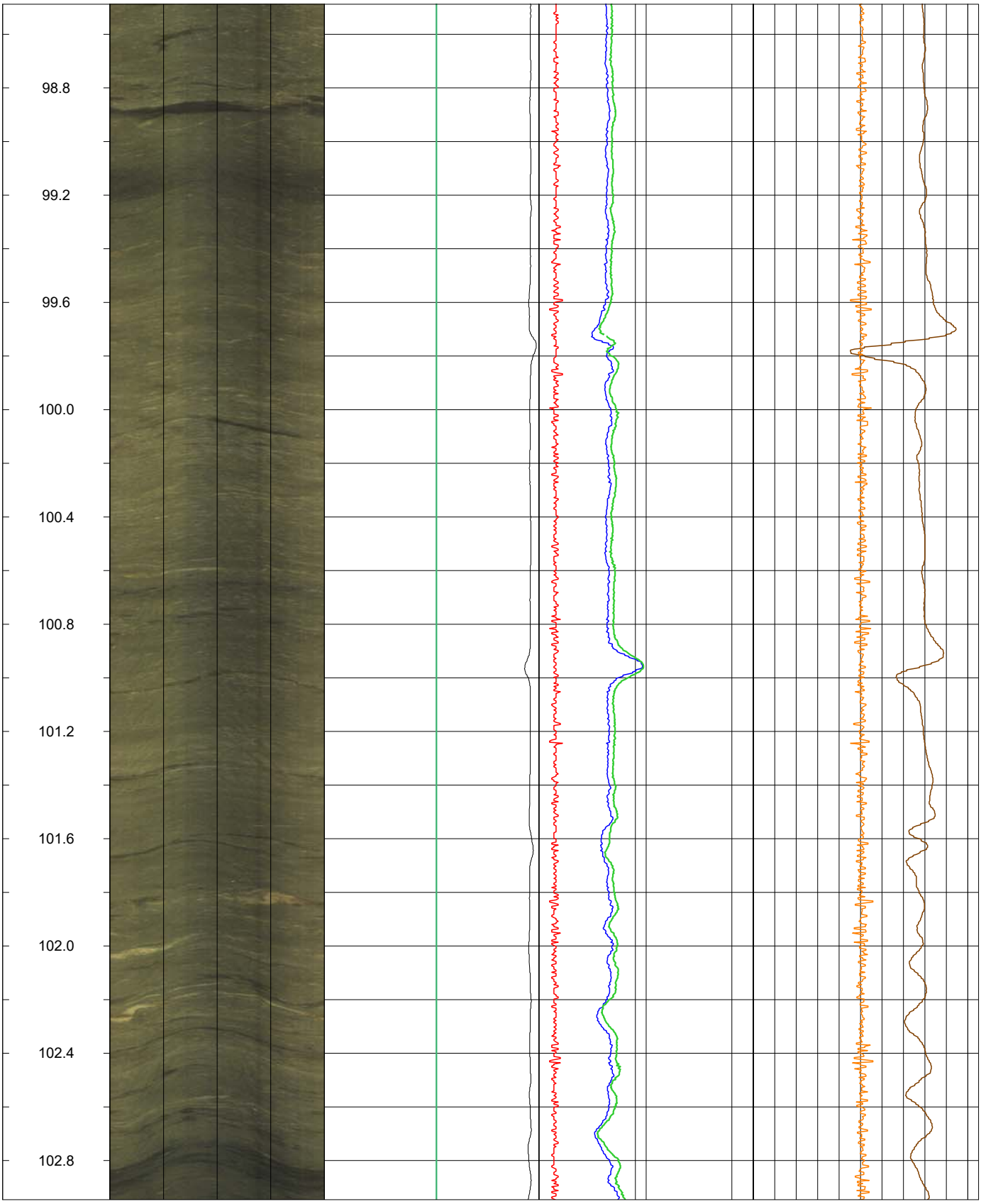

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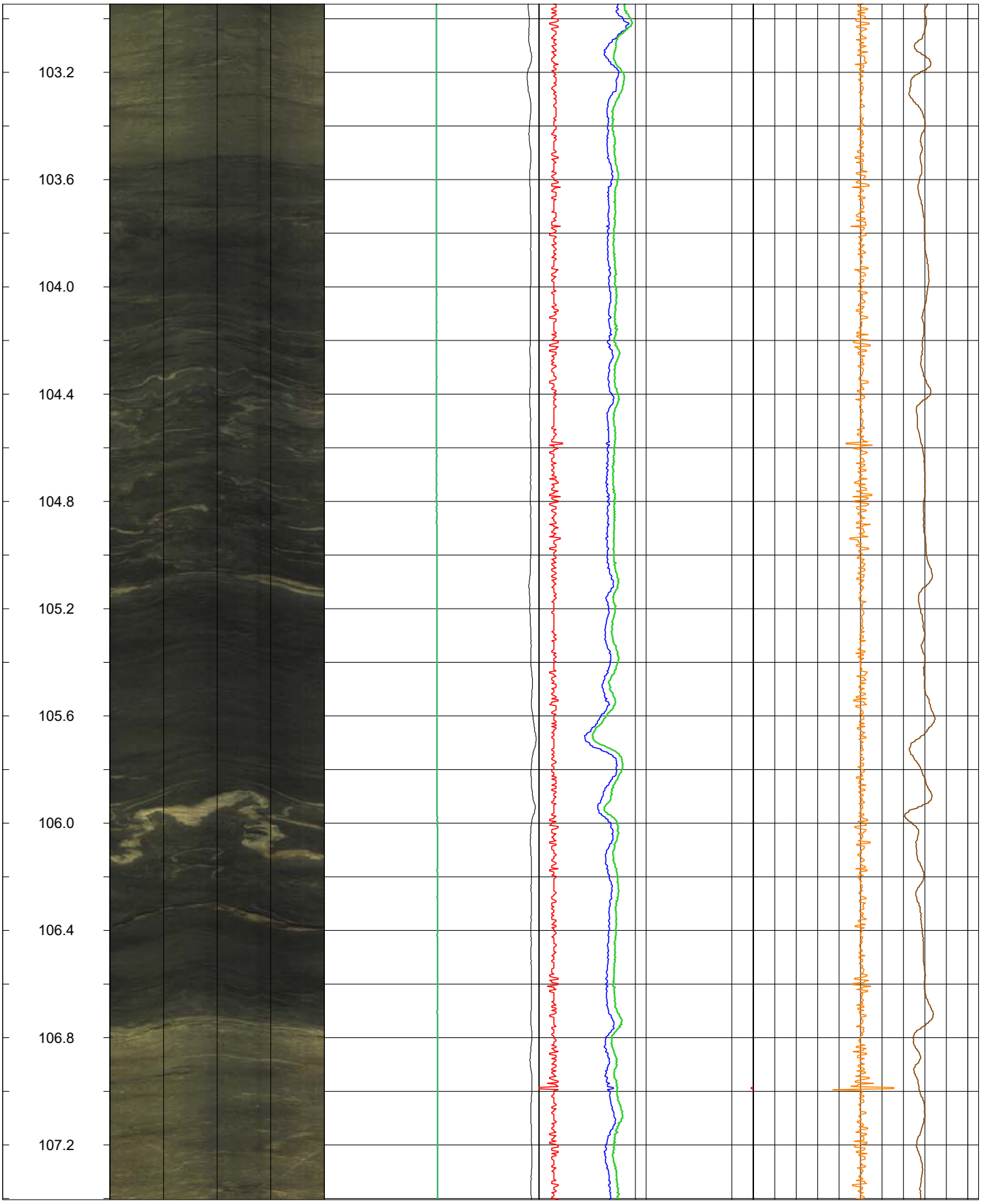

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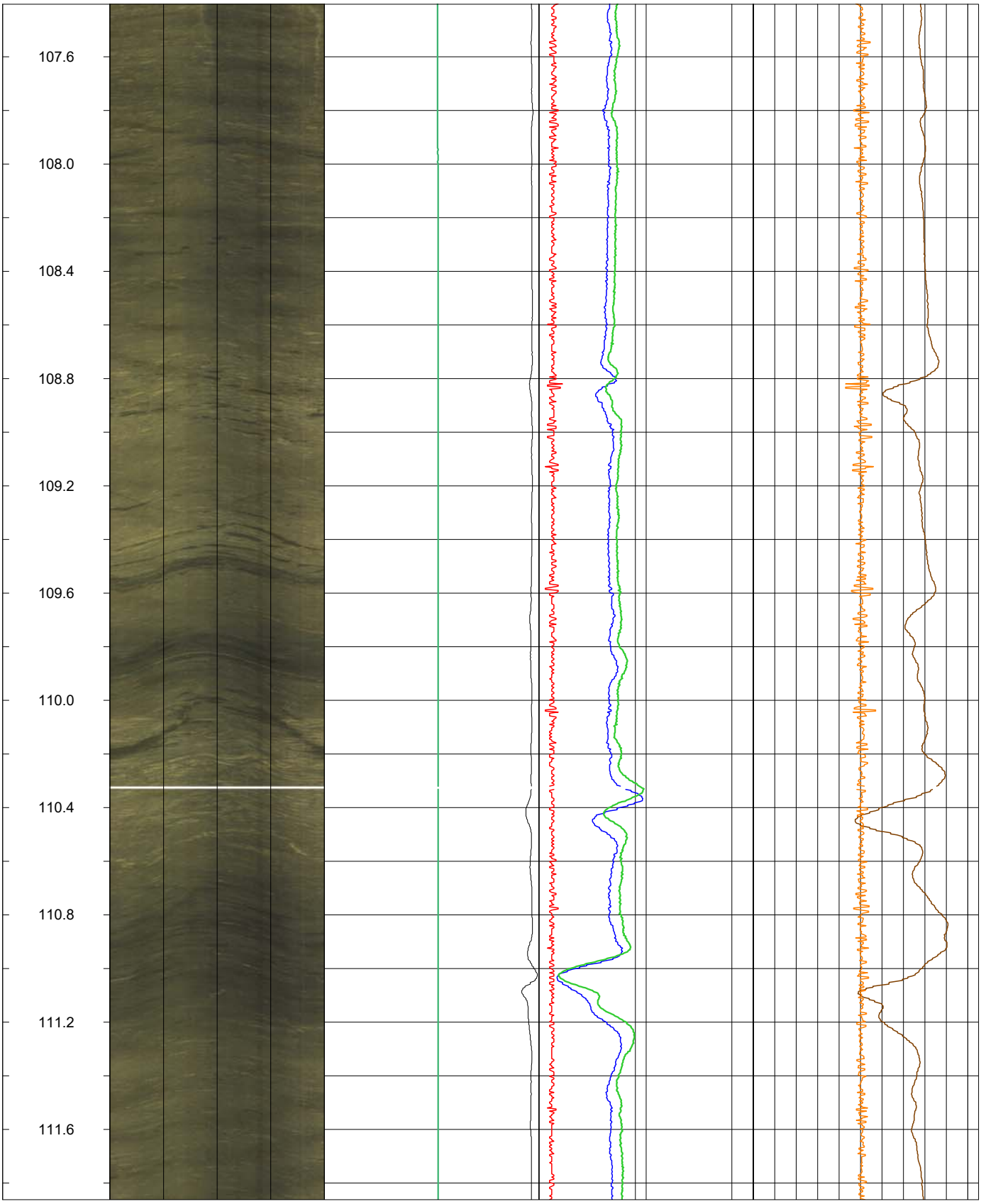

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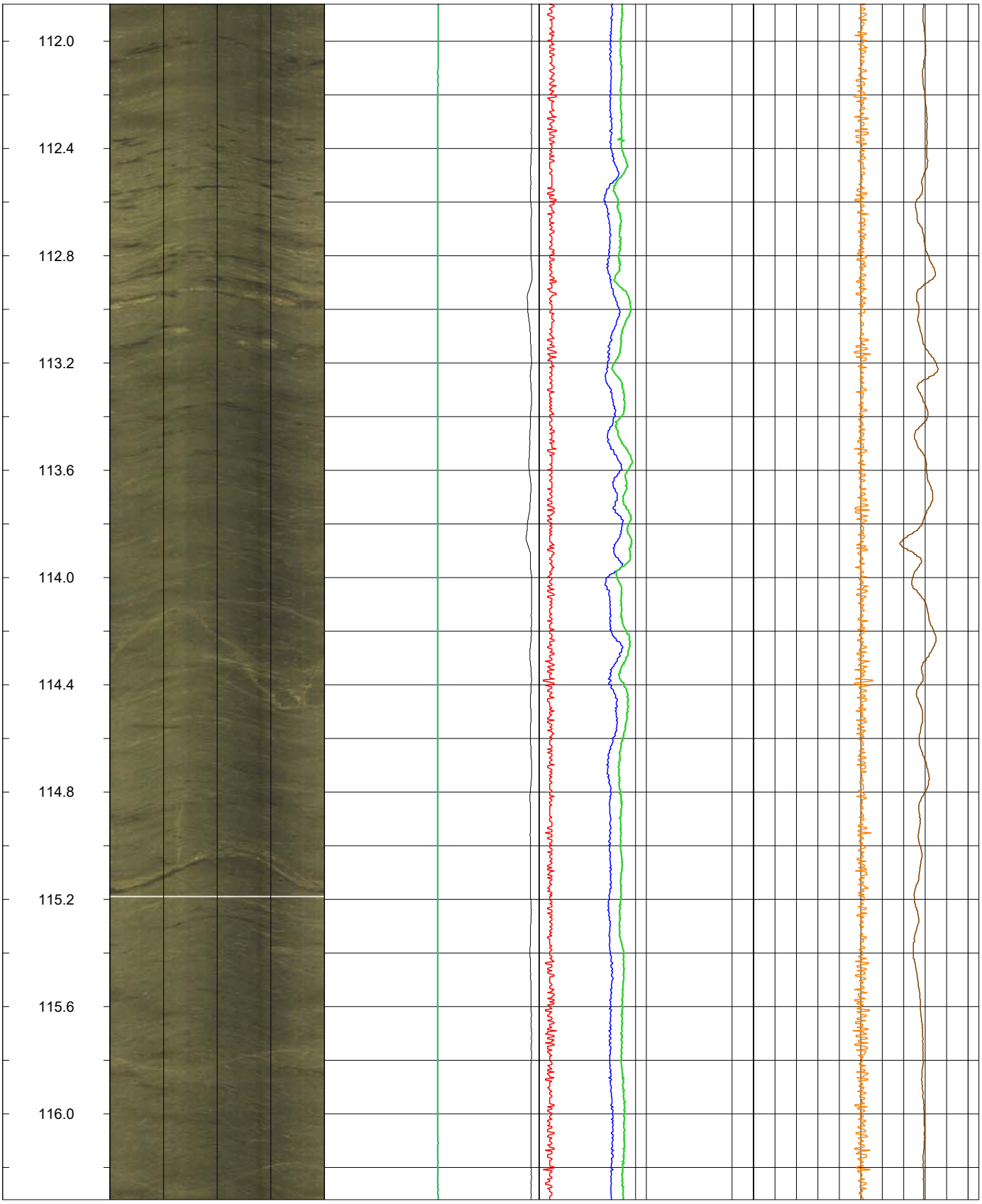
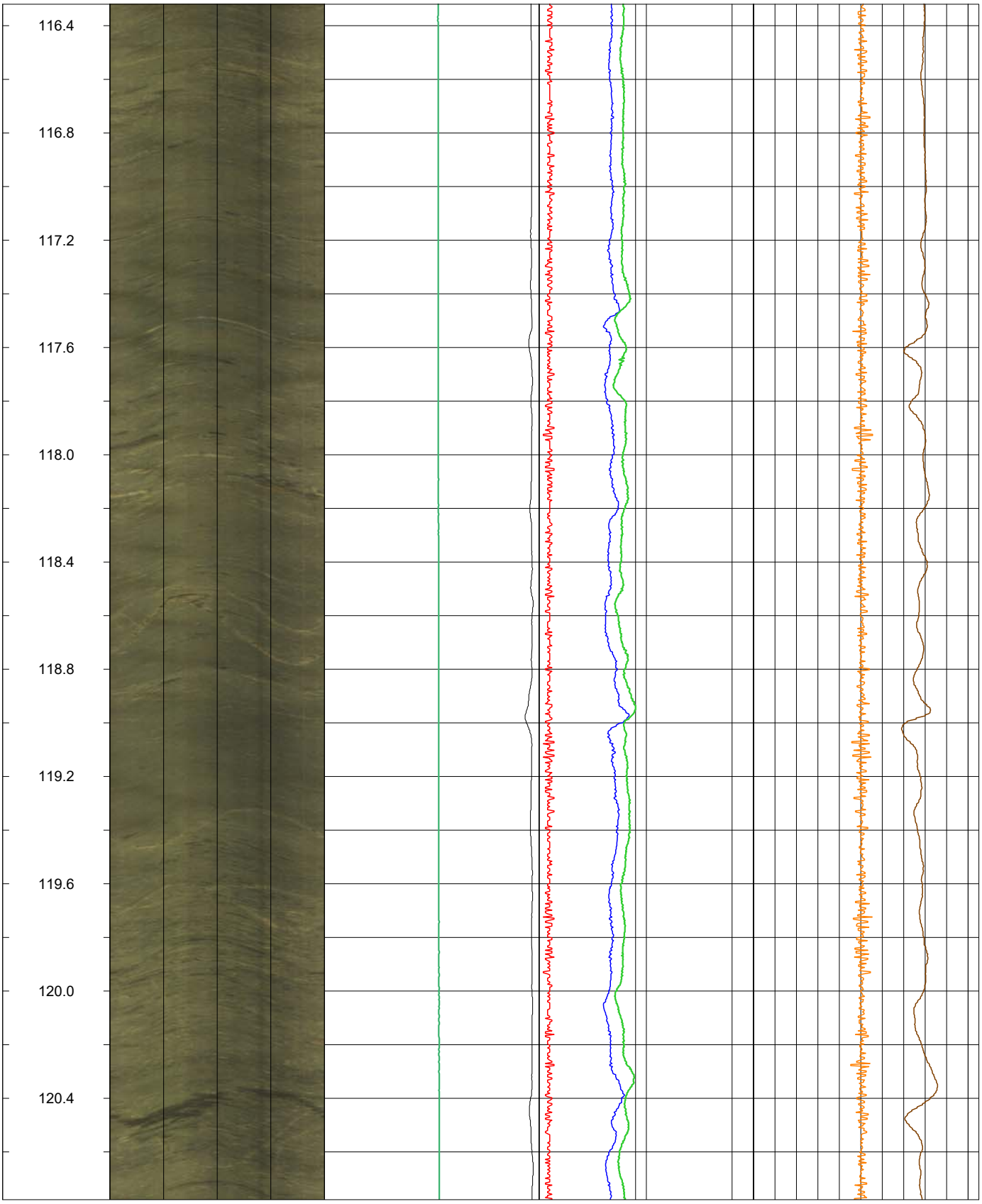


K17-420 Opictal Televiewer Survey Cont.



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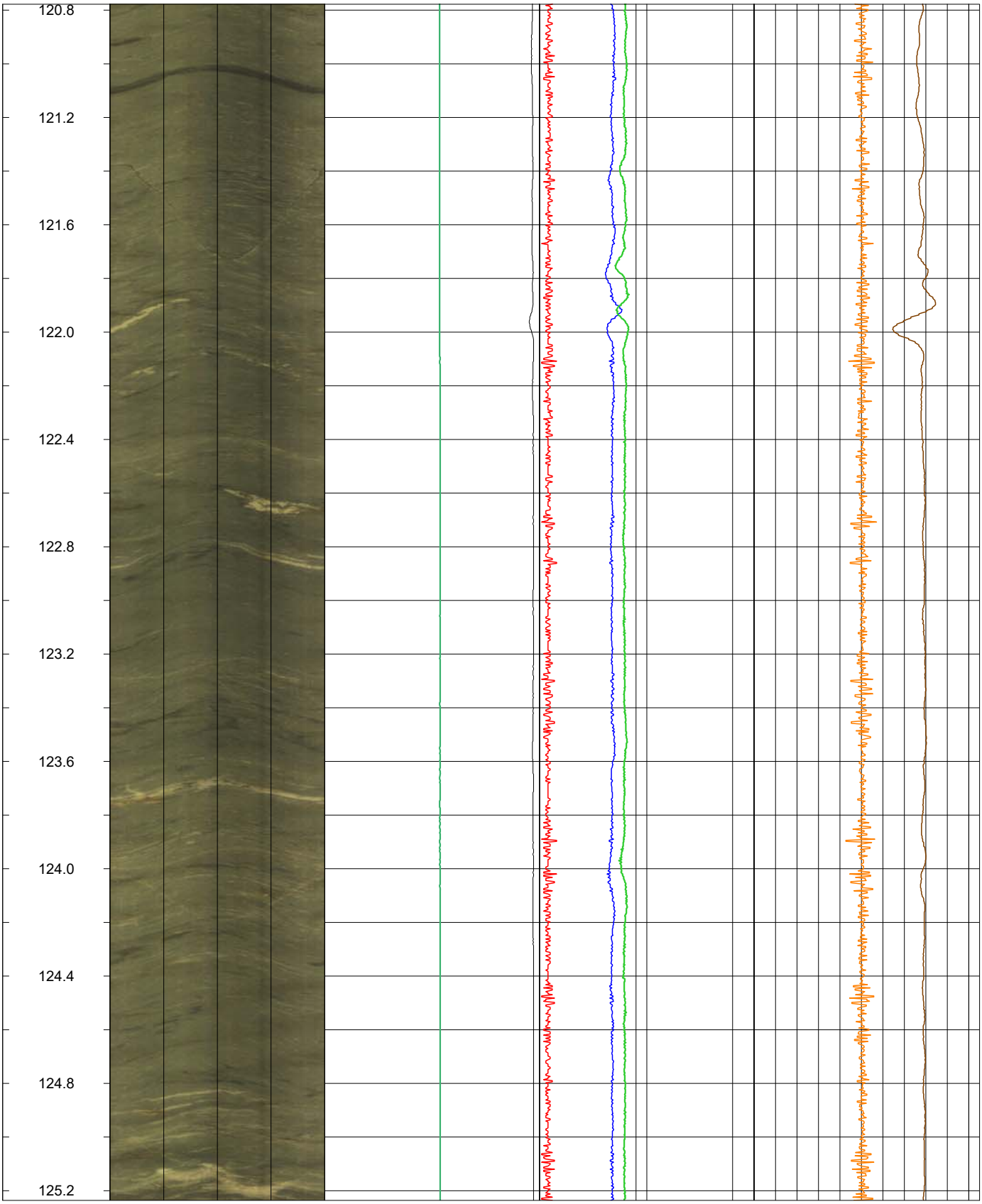

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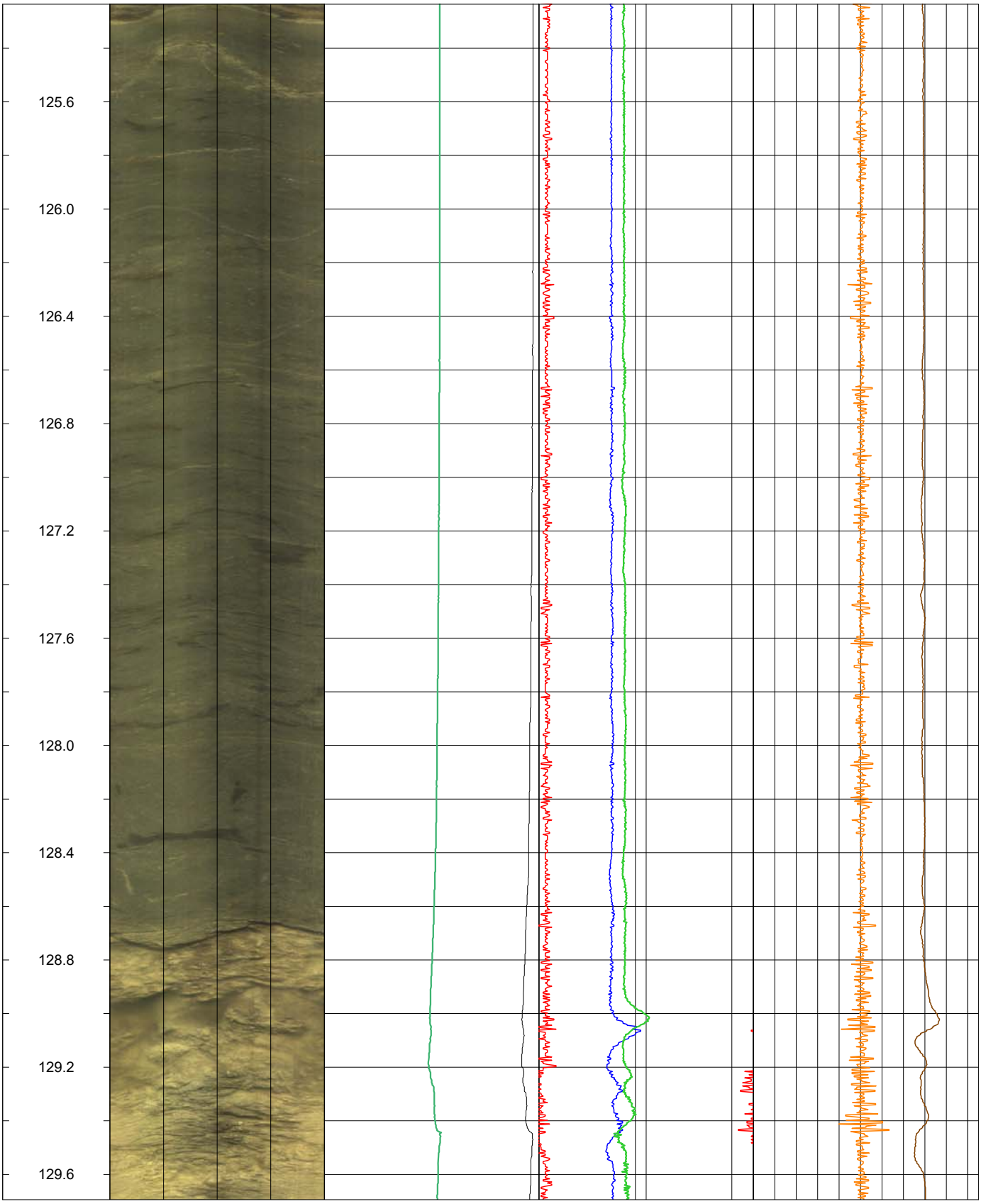

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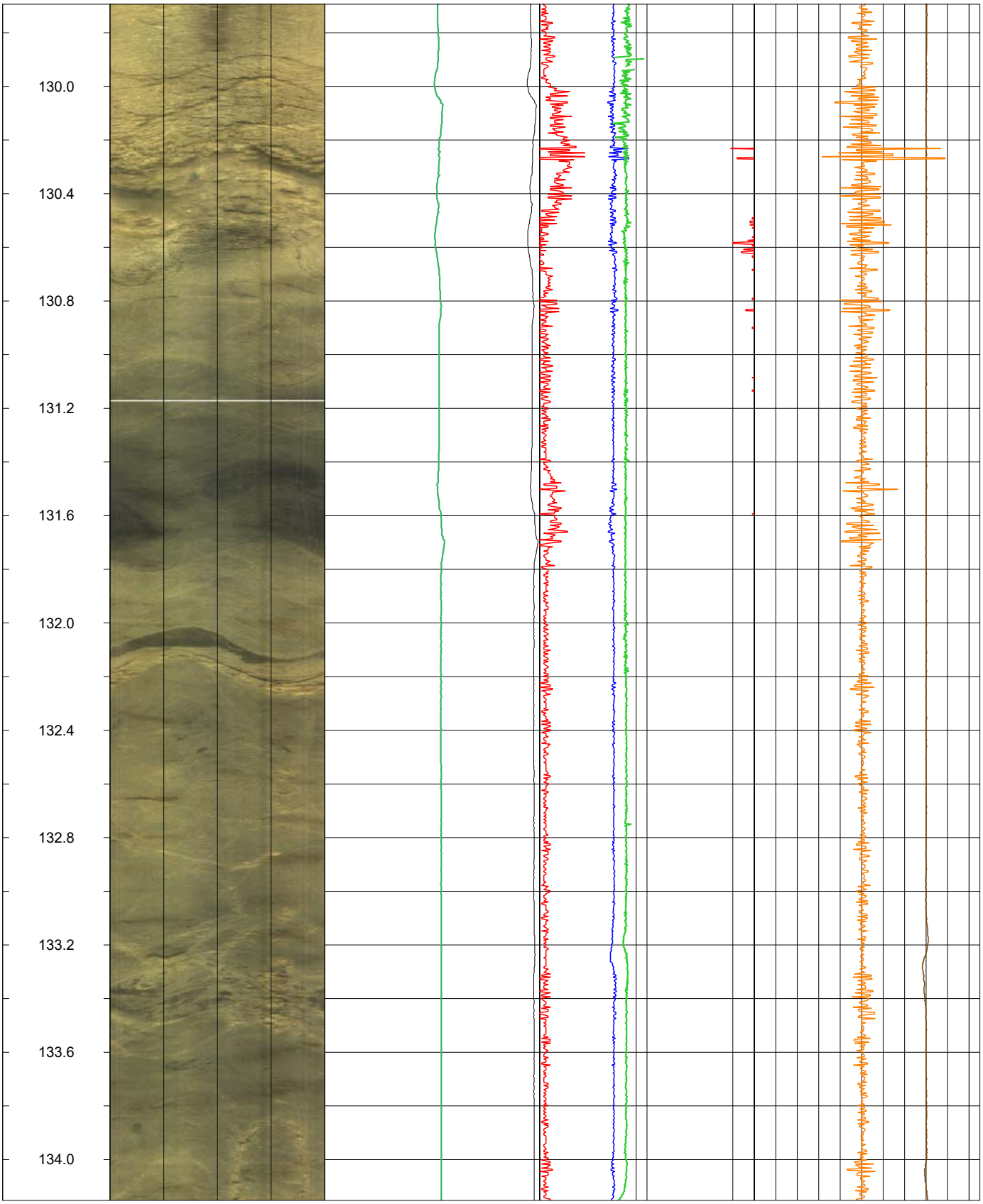

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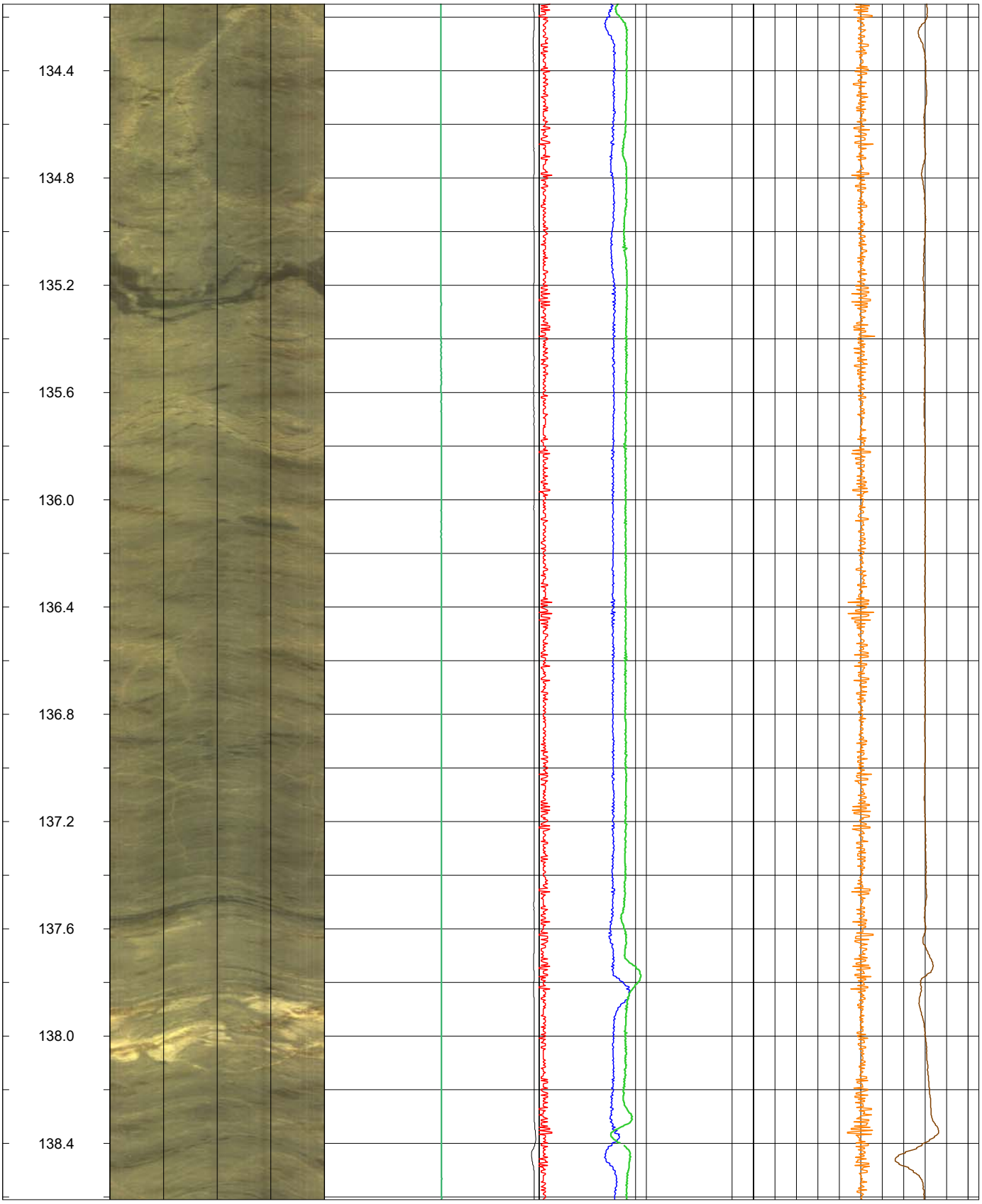

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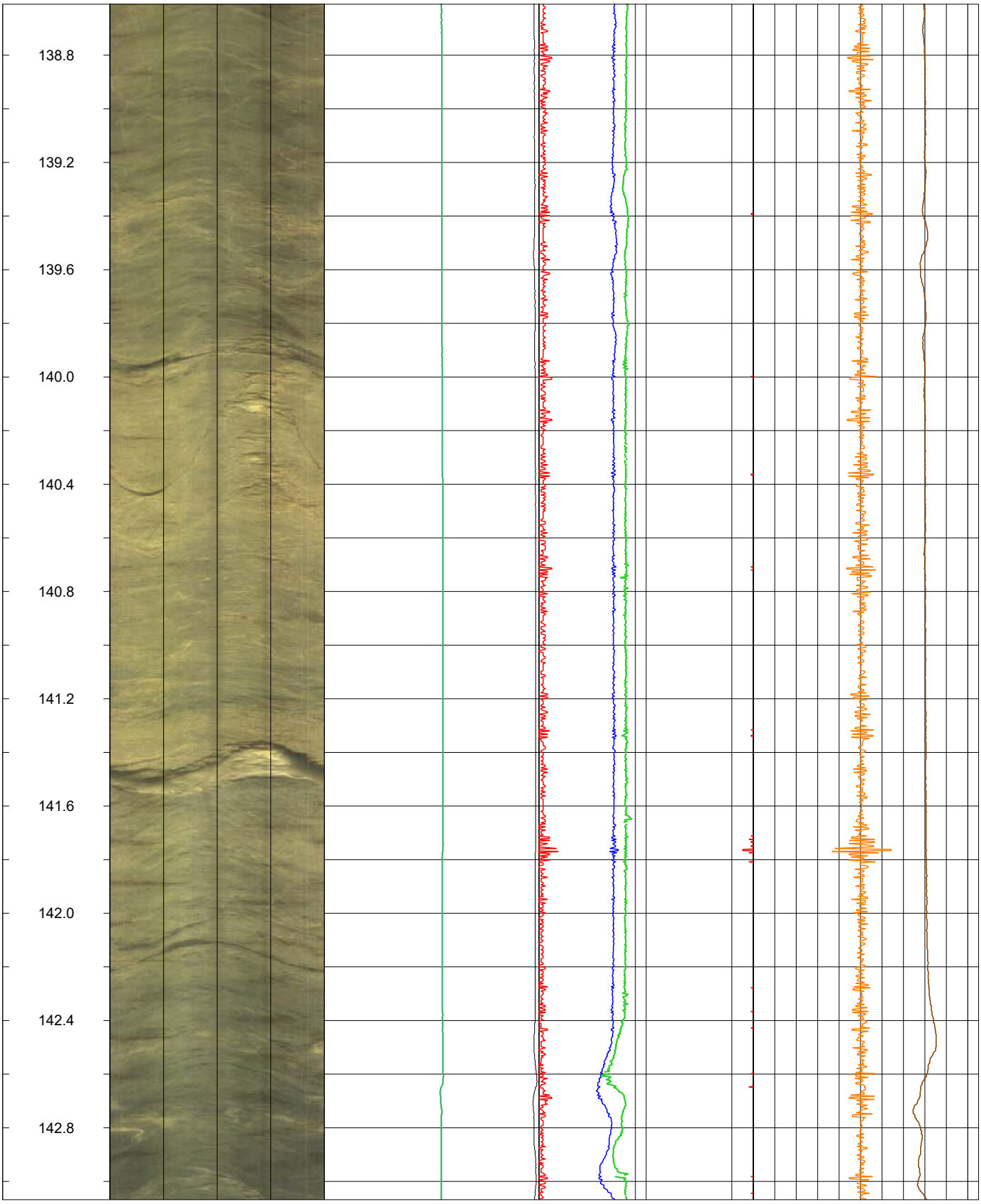

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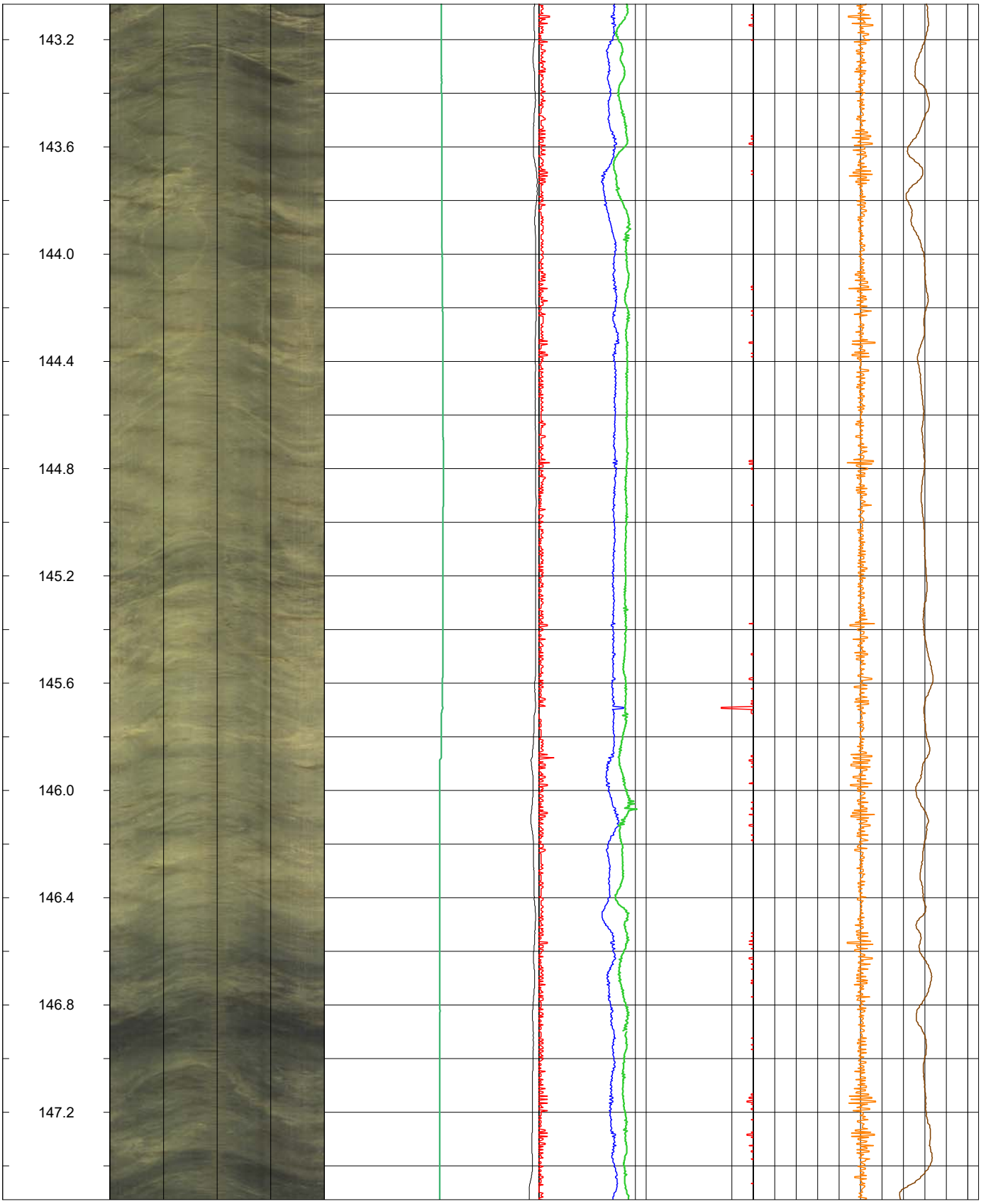

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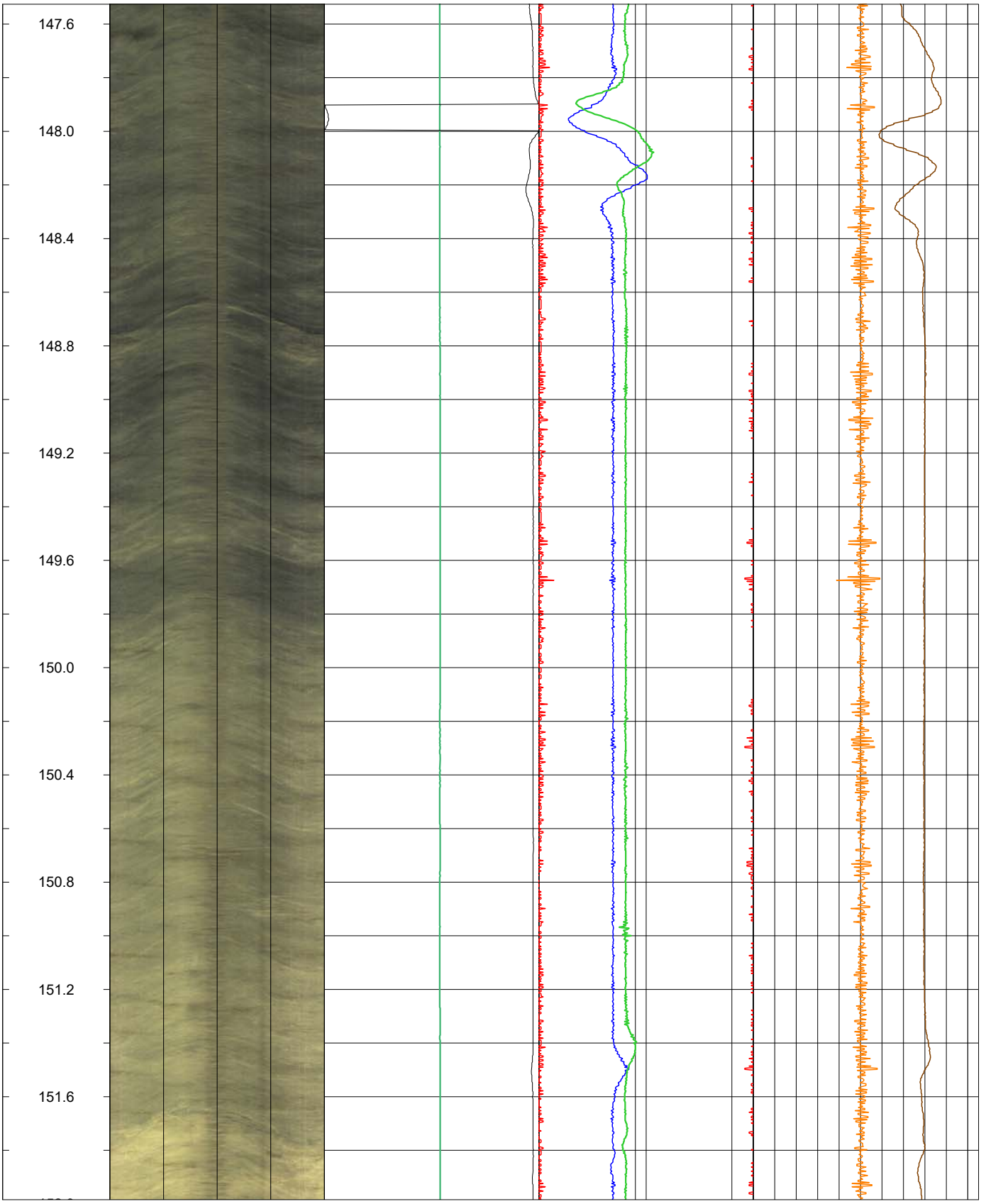

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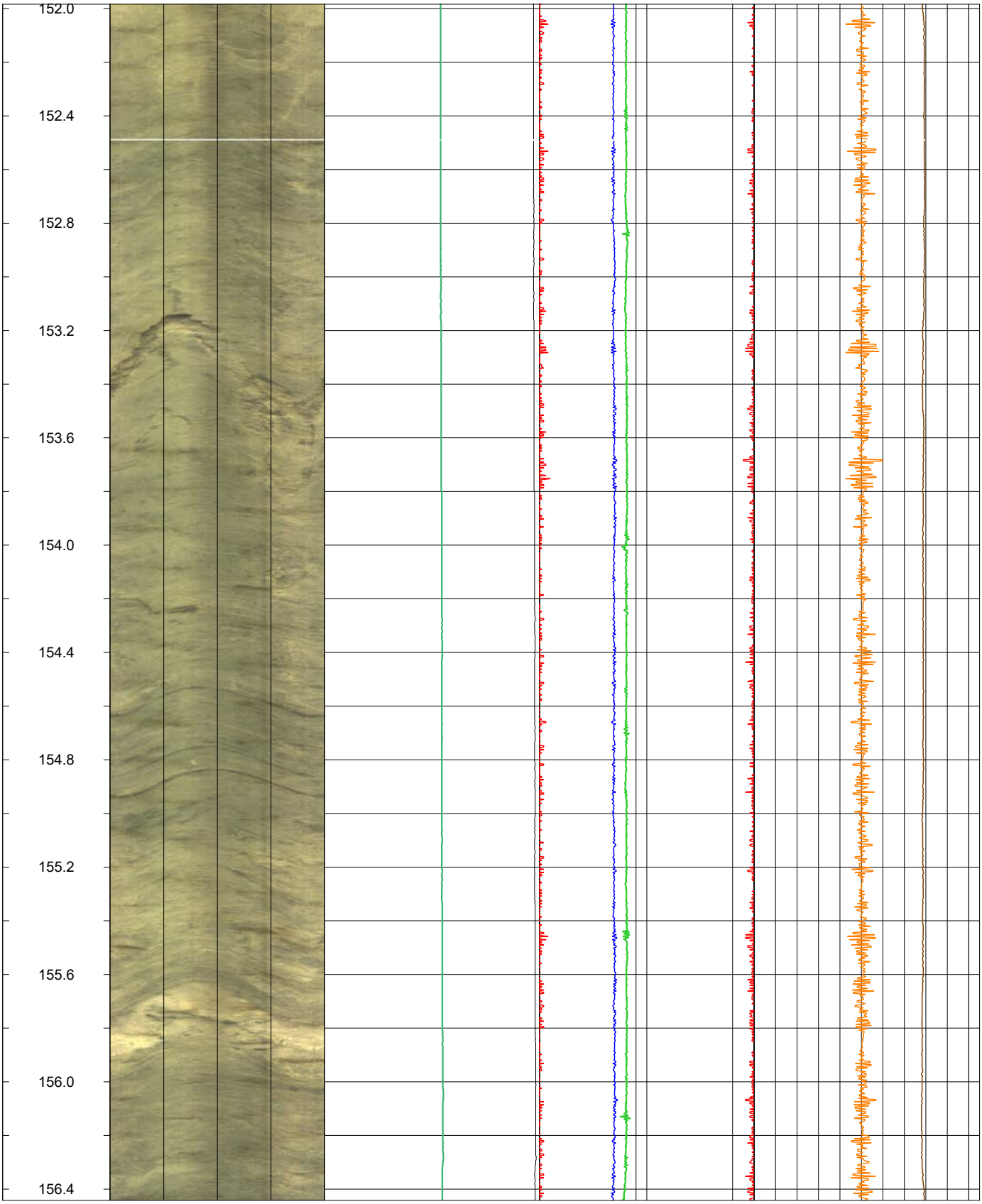

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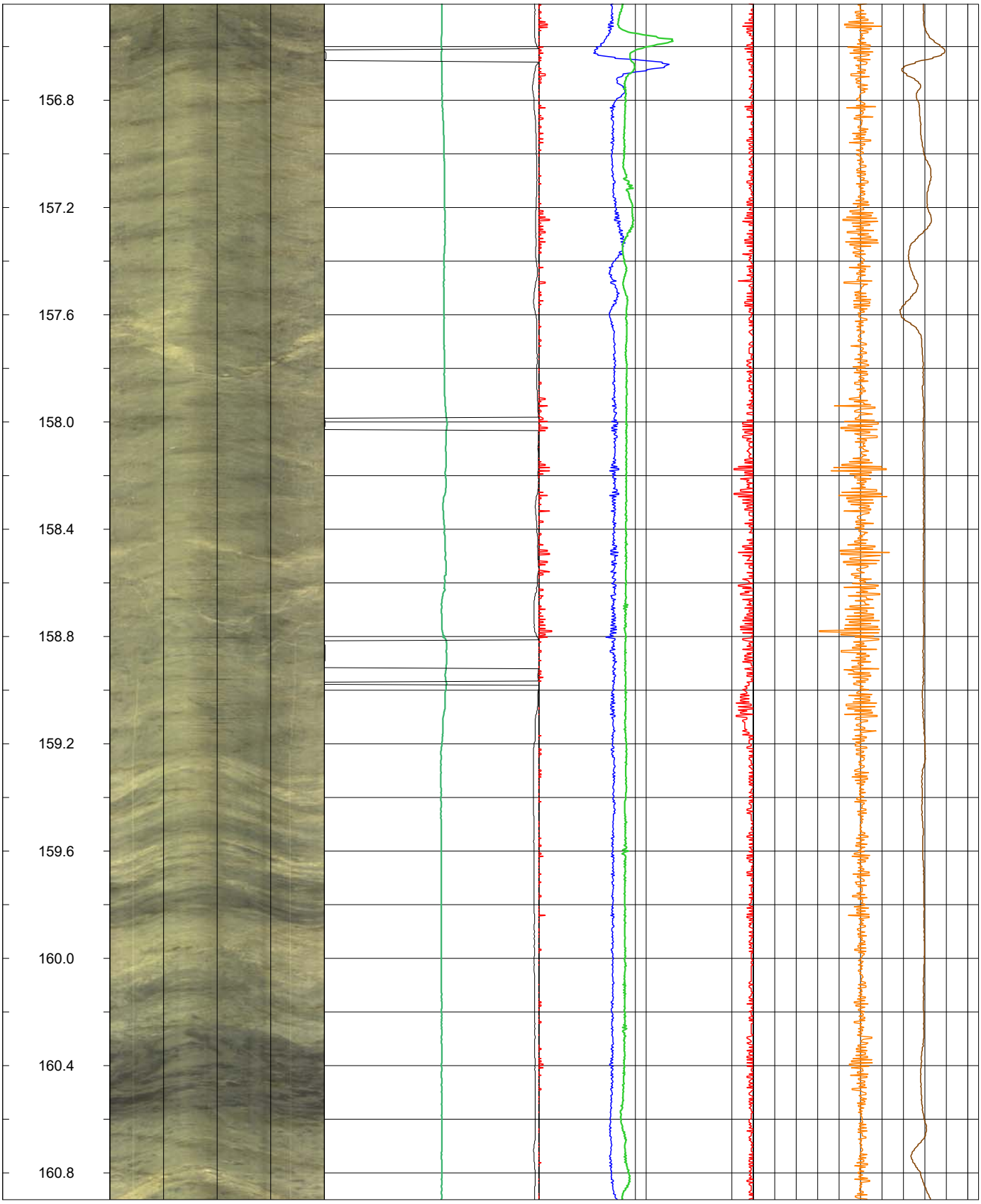

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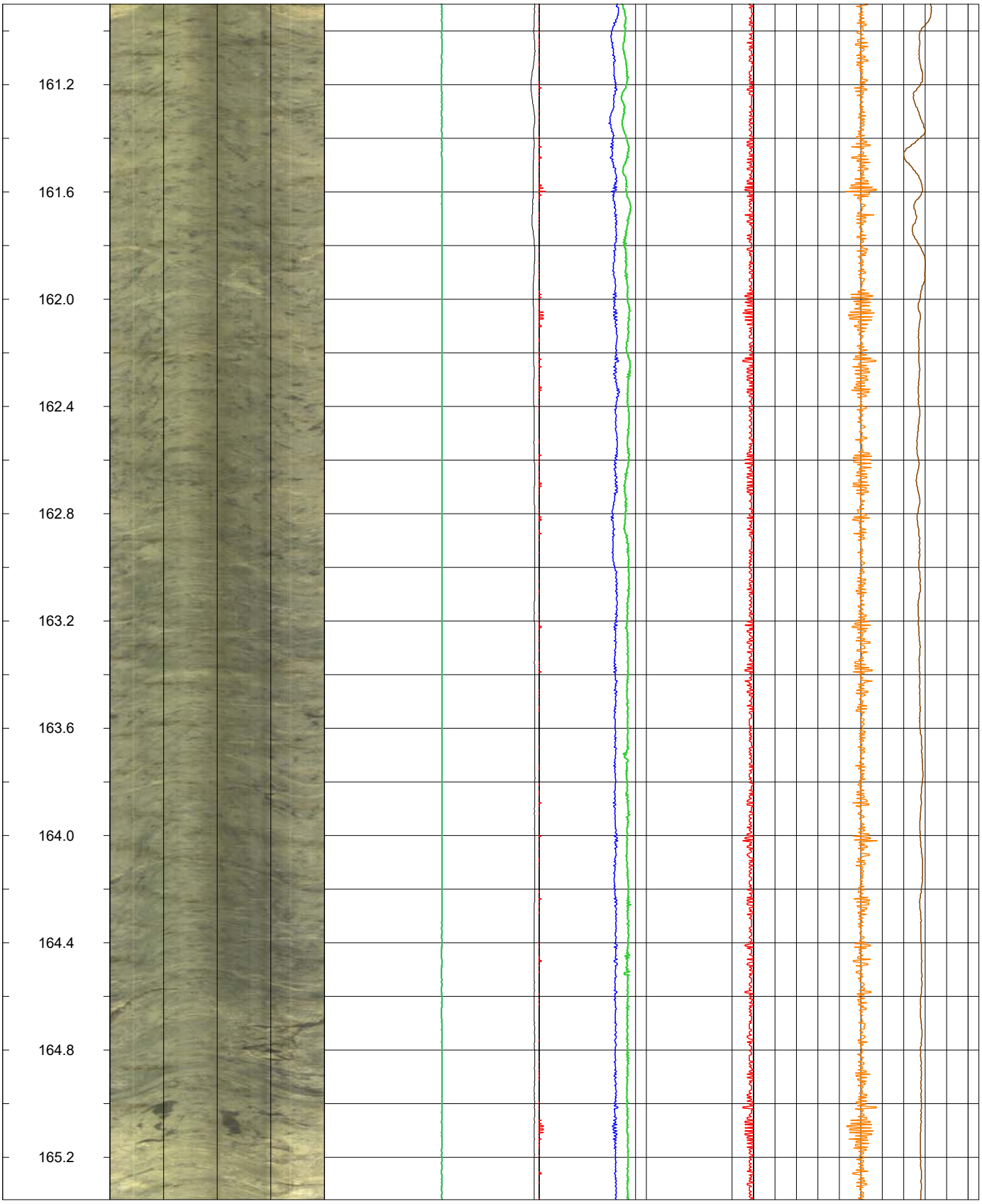

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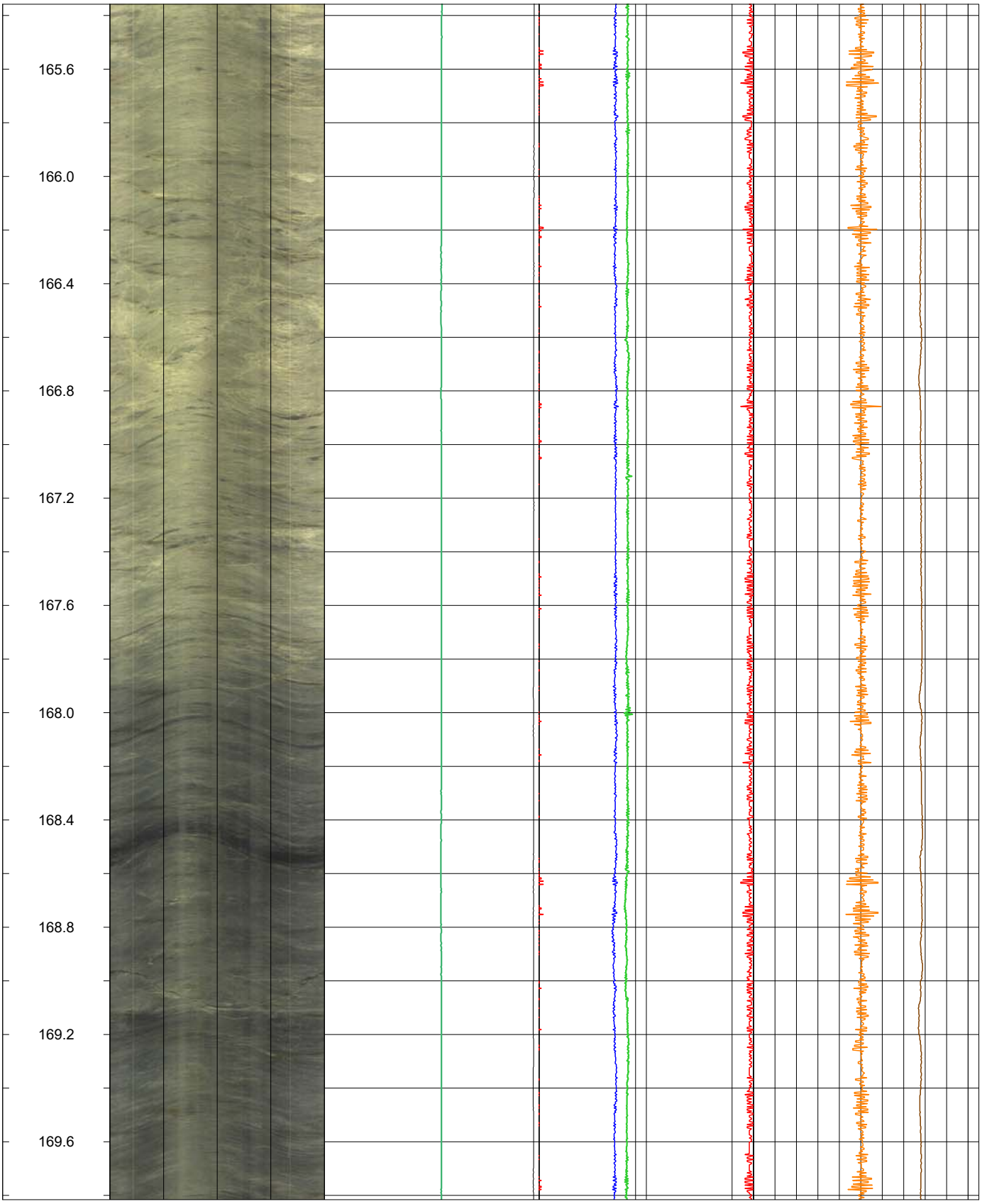

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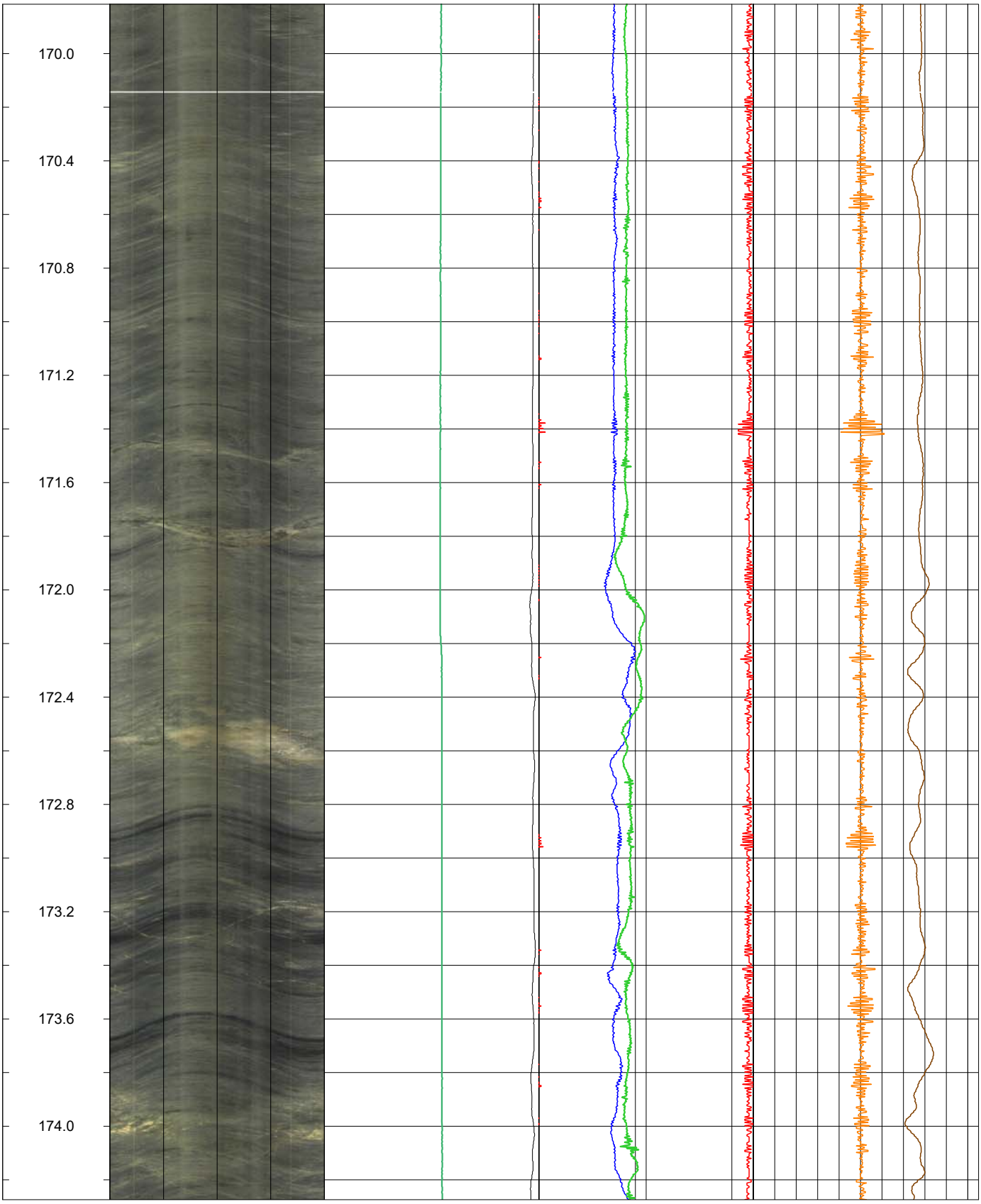

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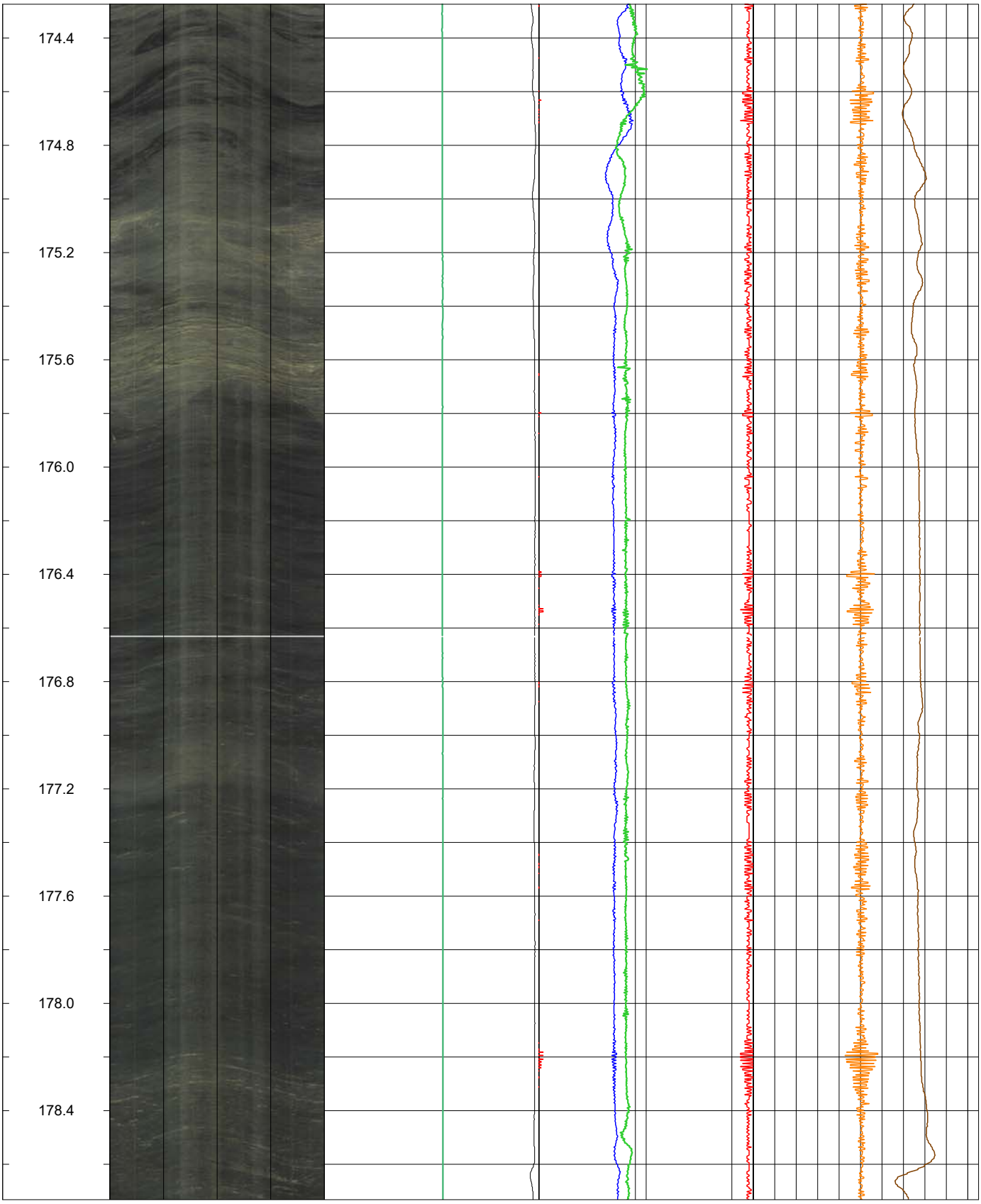

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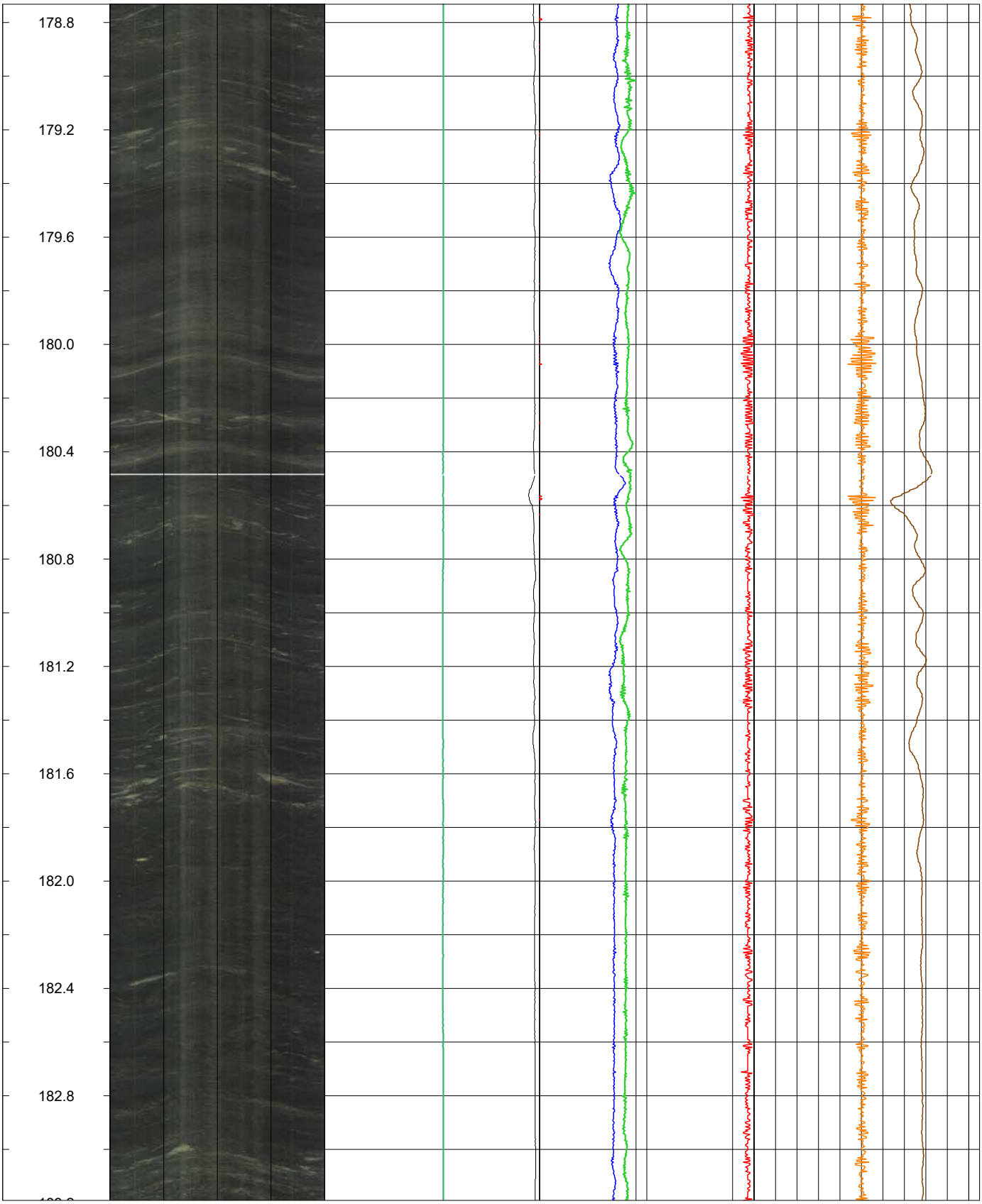

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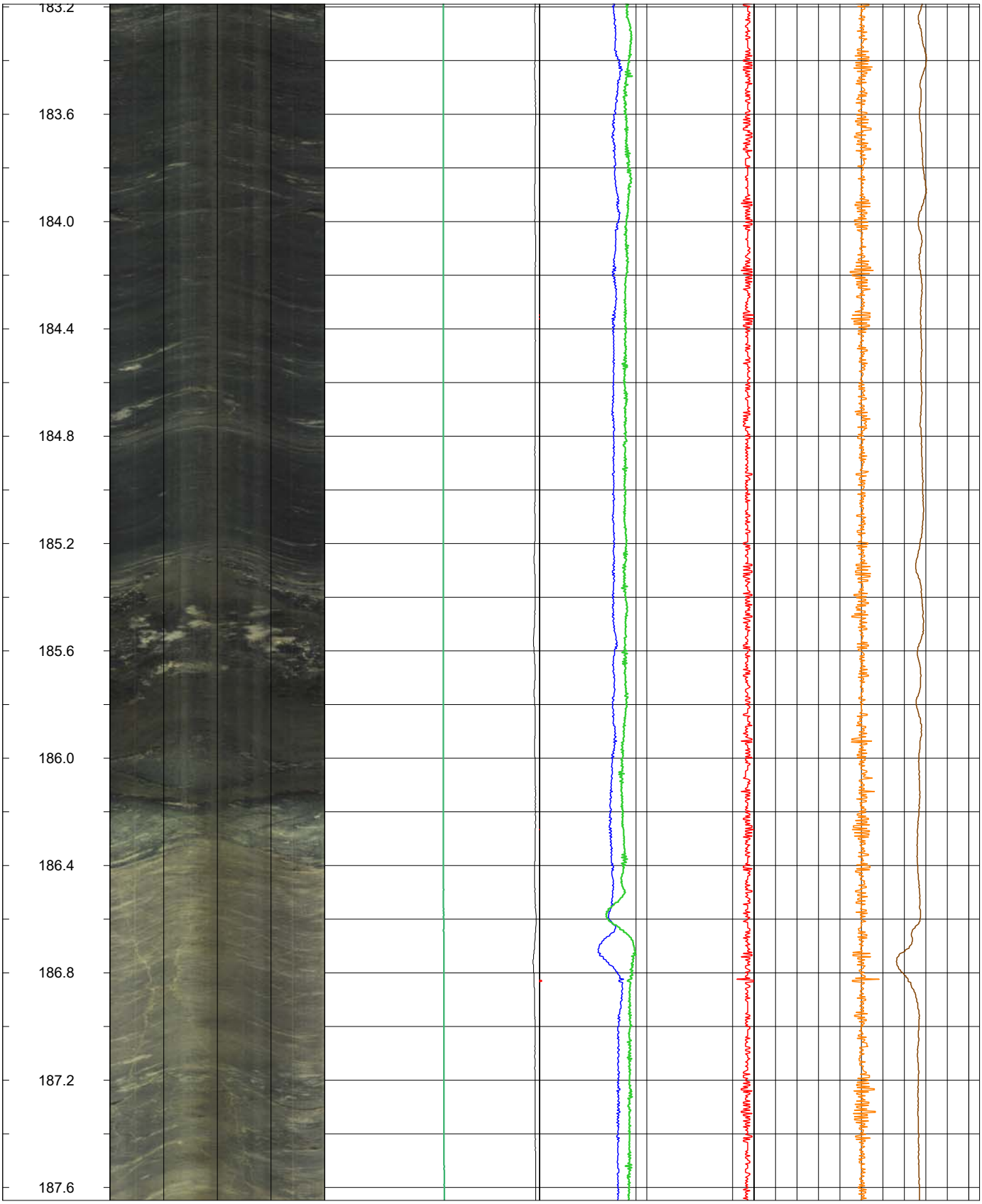

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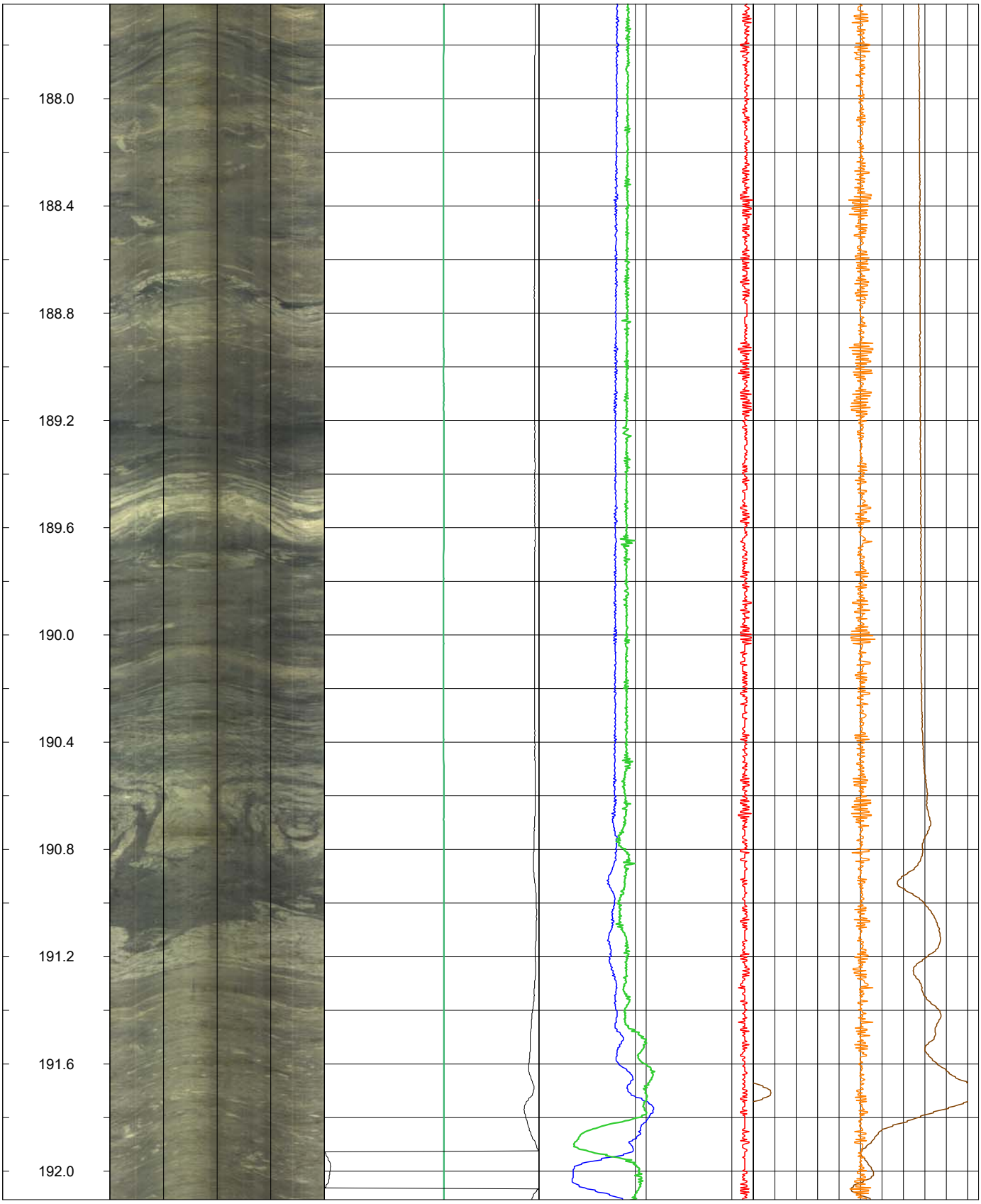

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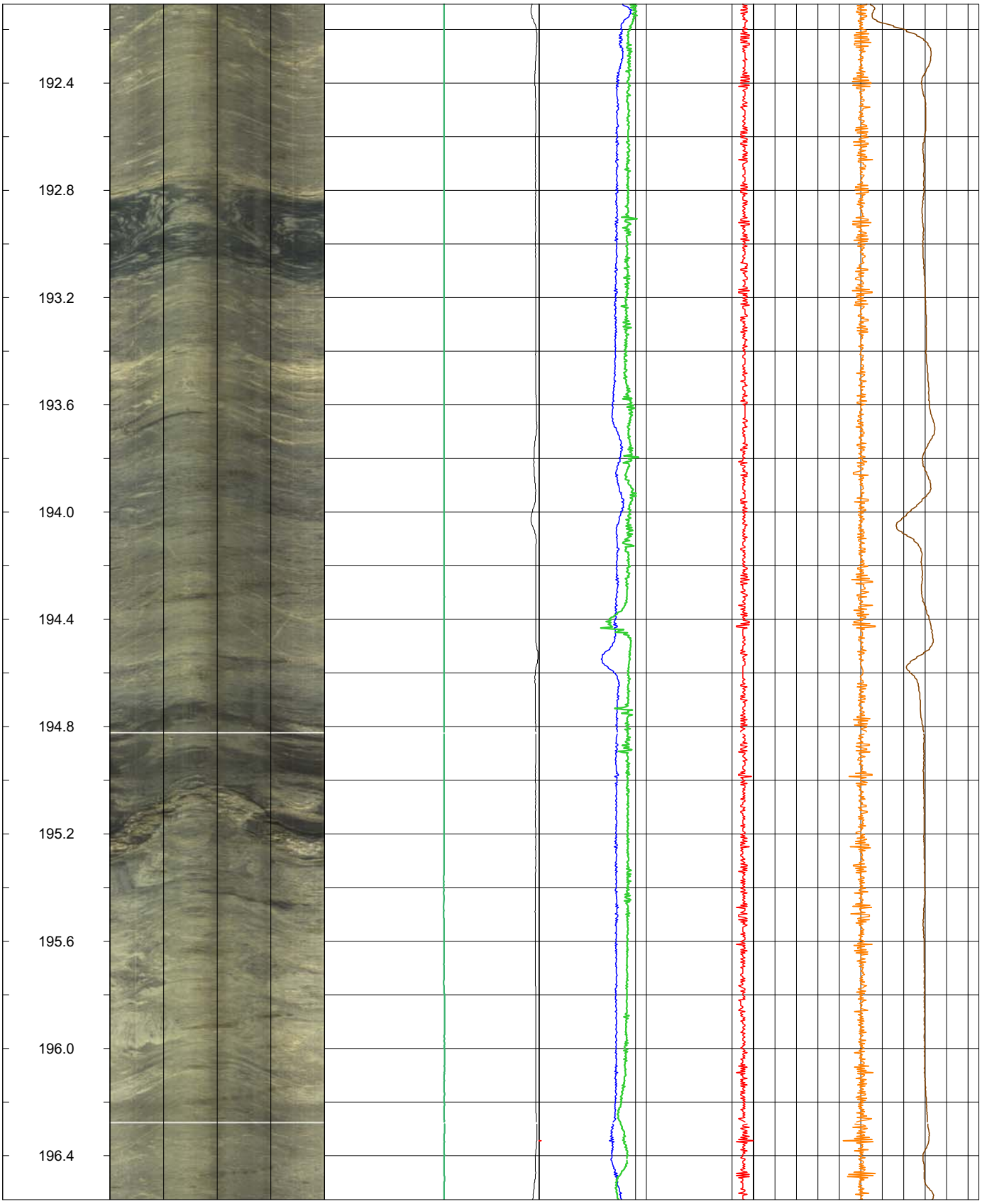

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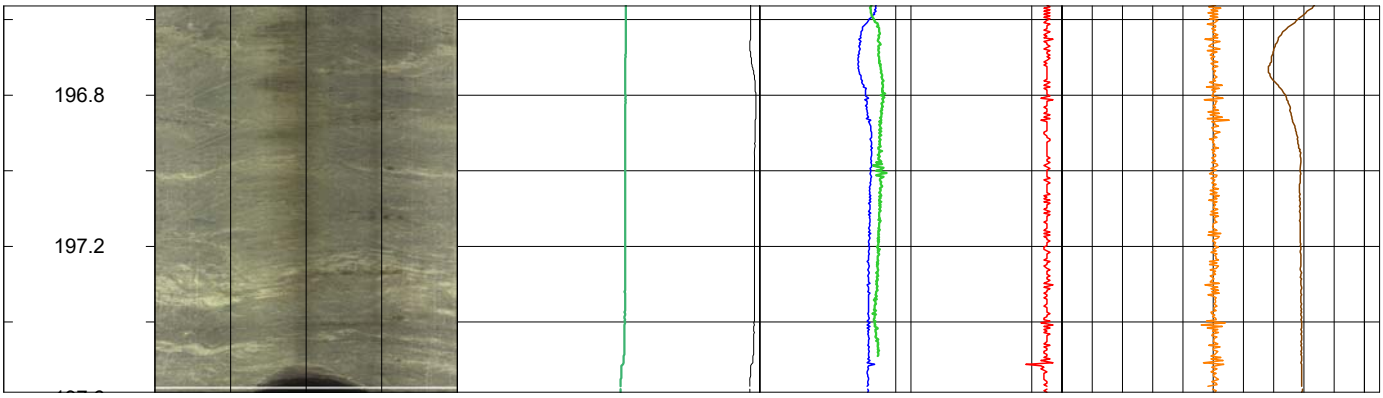
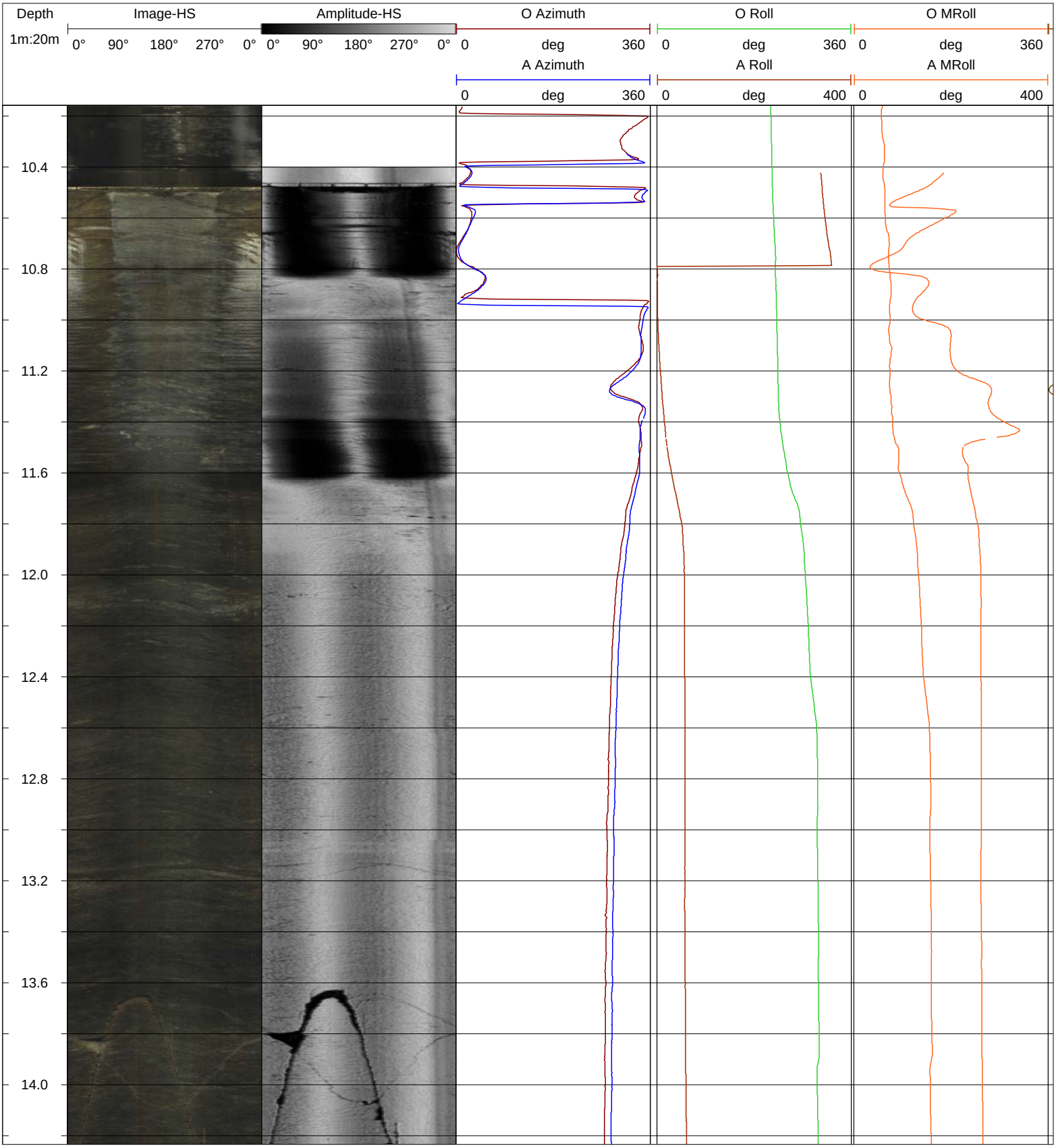
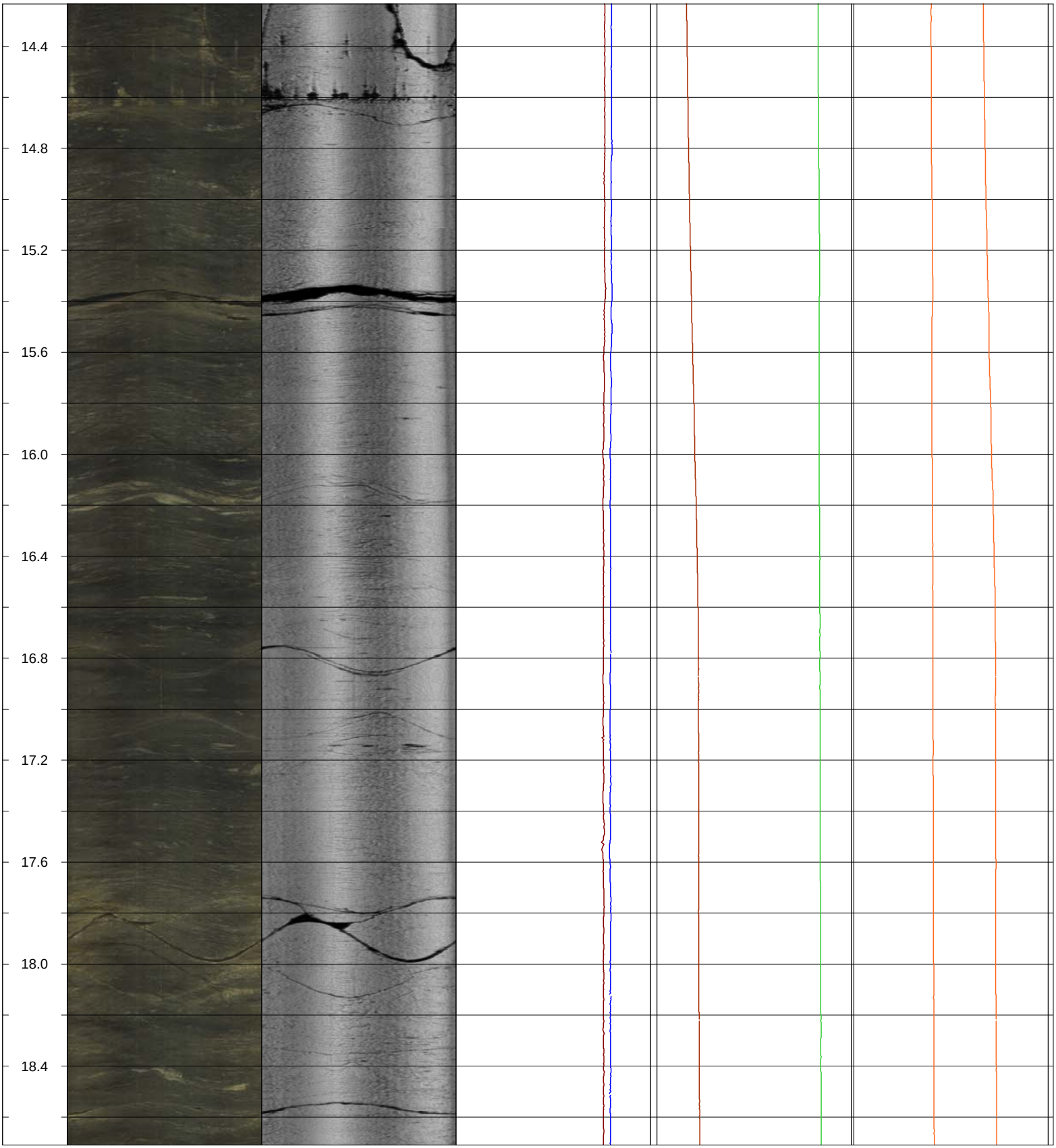


K17-422 Opictal & Acoustic Televiewer Survey



K17-422 Opictal & Acoustic Televiewer Survey Cont.



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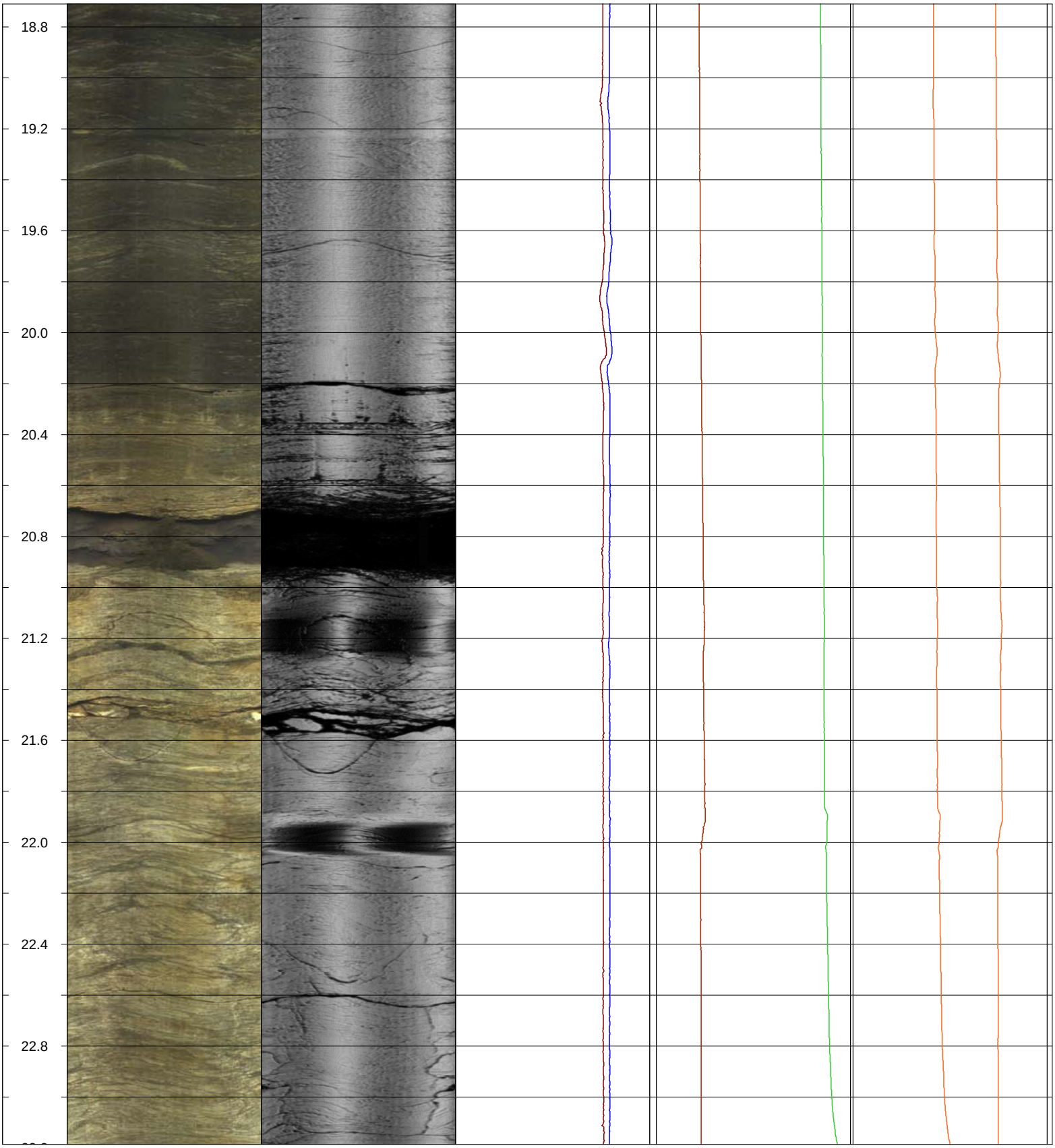
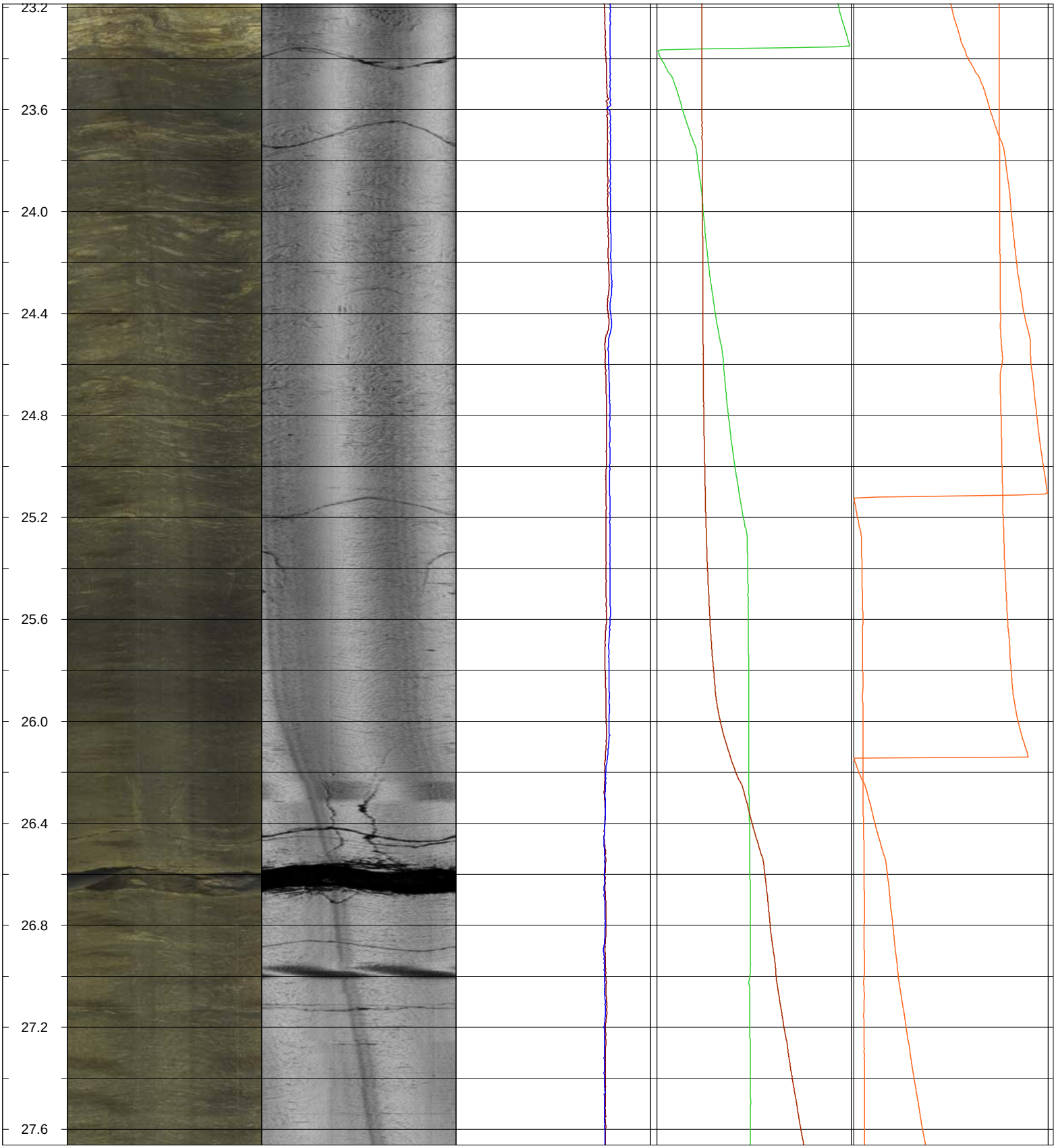


K17-422 Opictal & Acoustic Televiewer Survey Cont.



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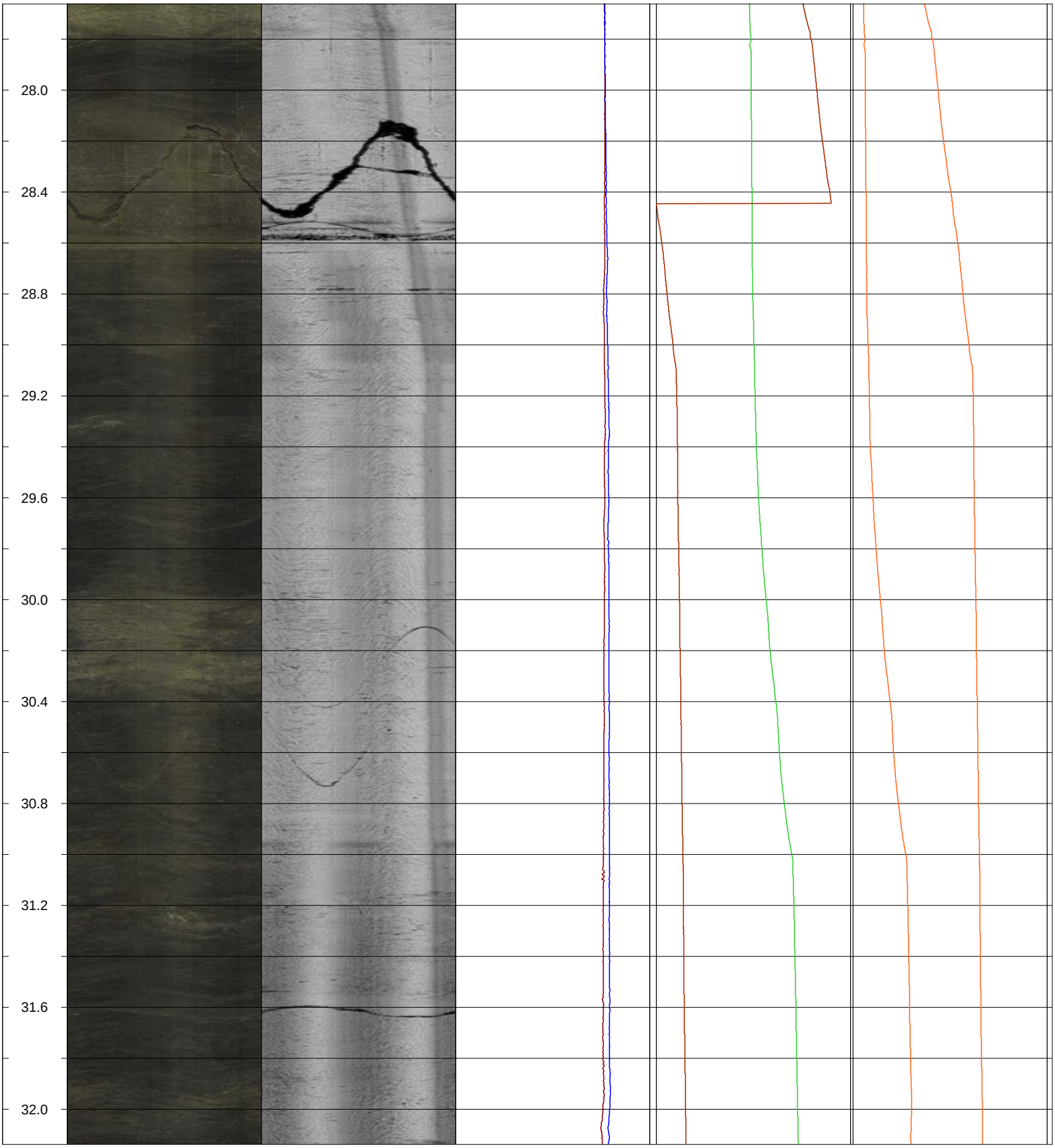

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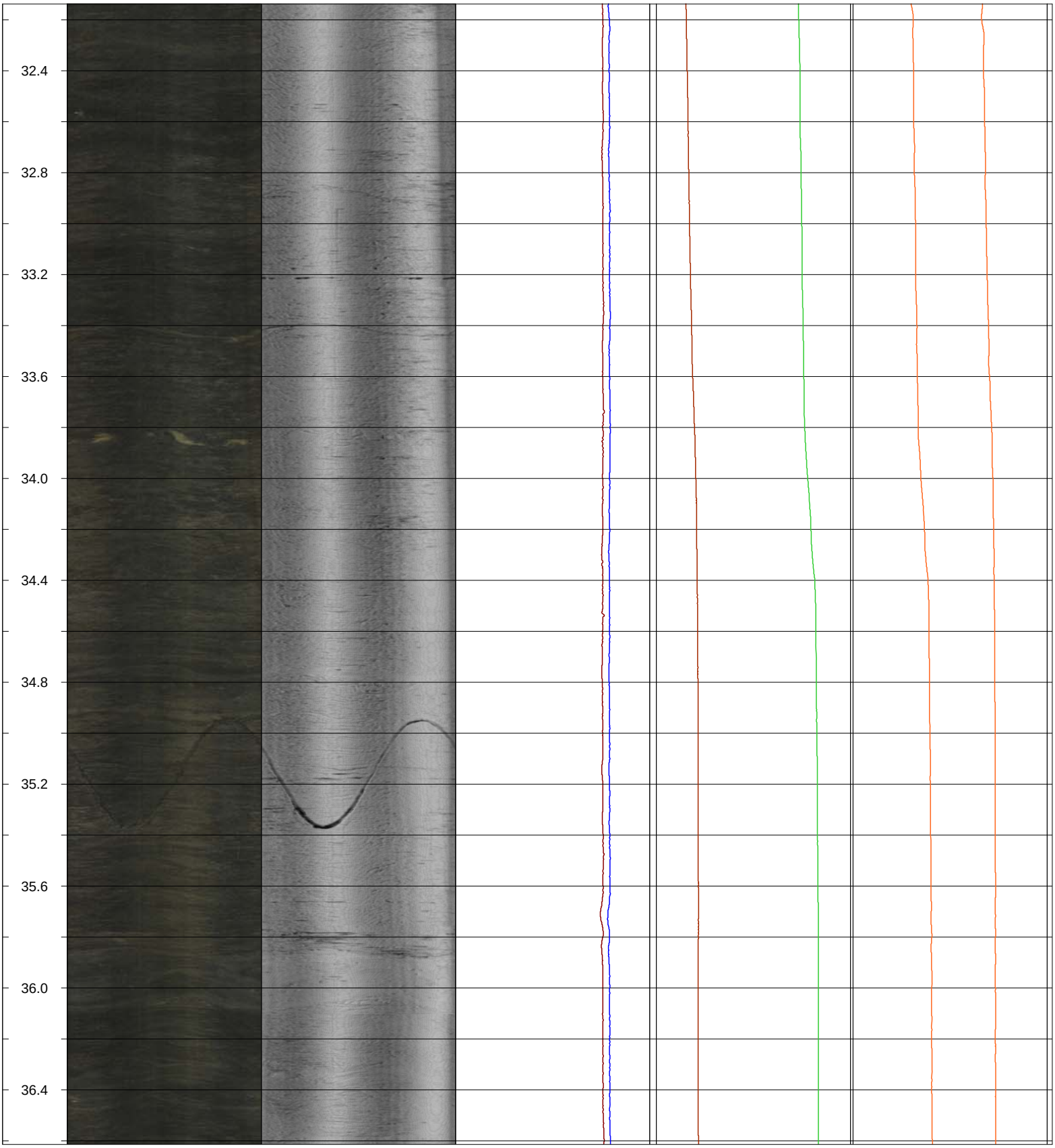

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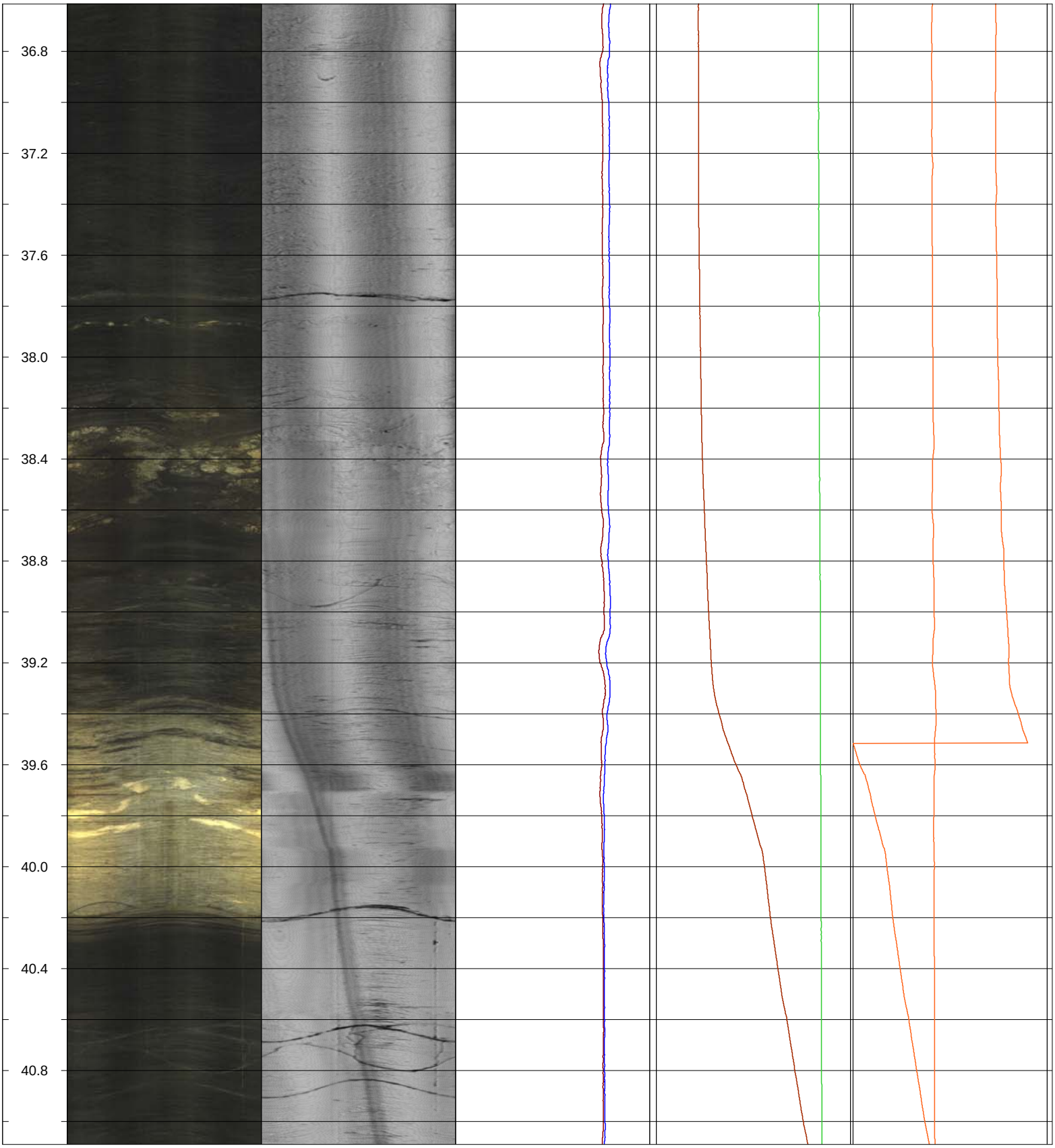

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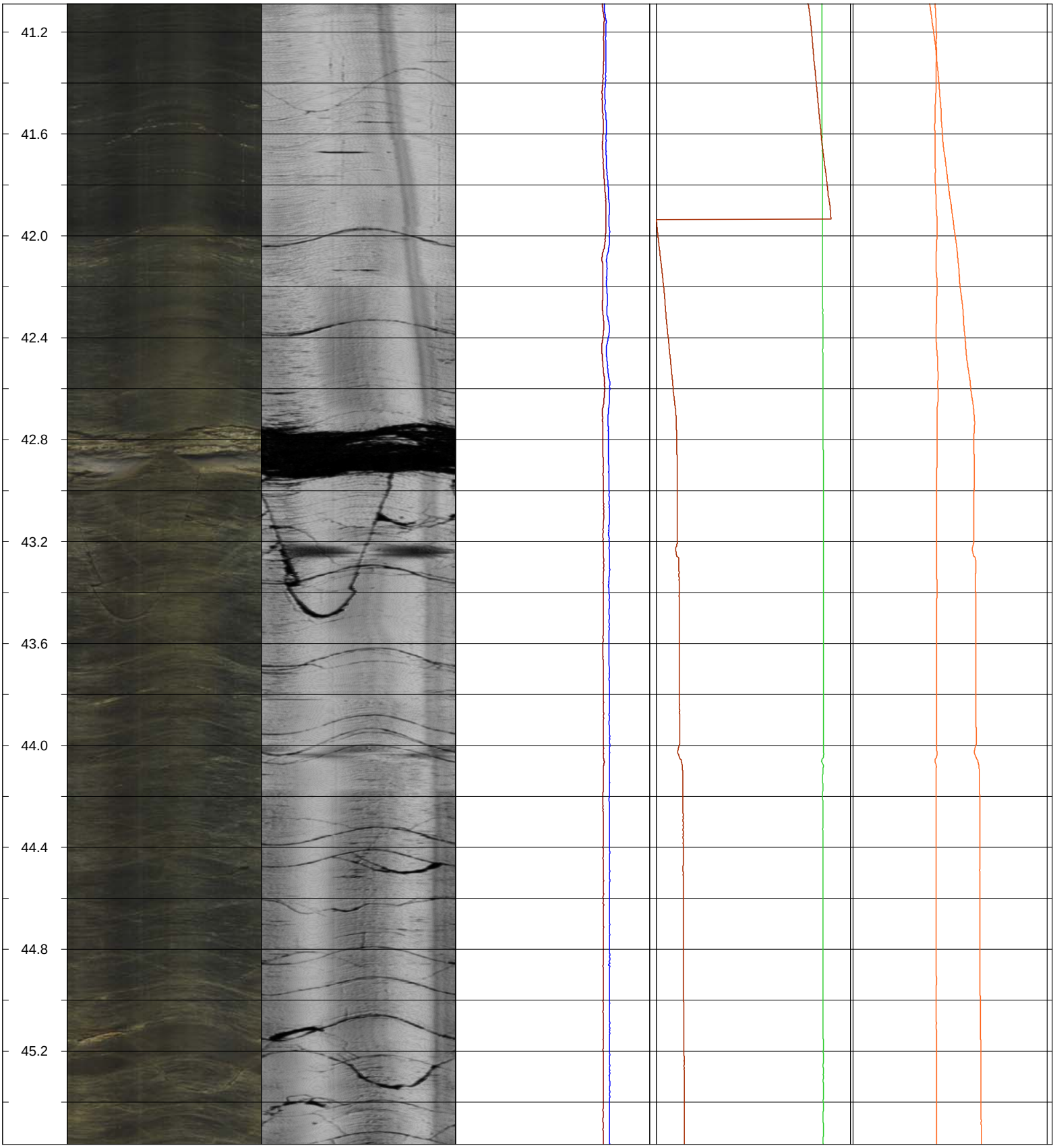

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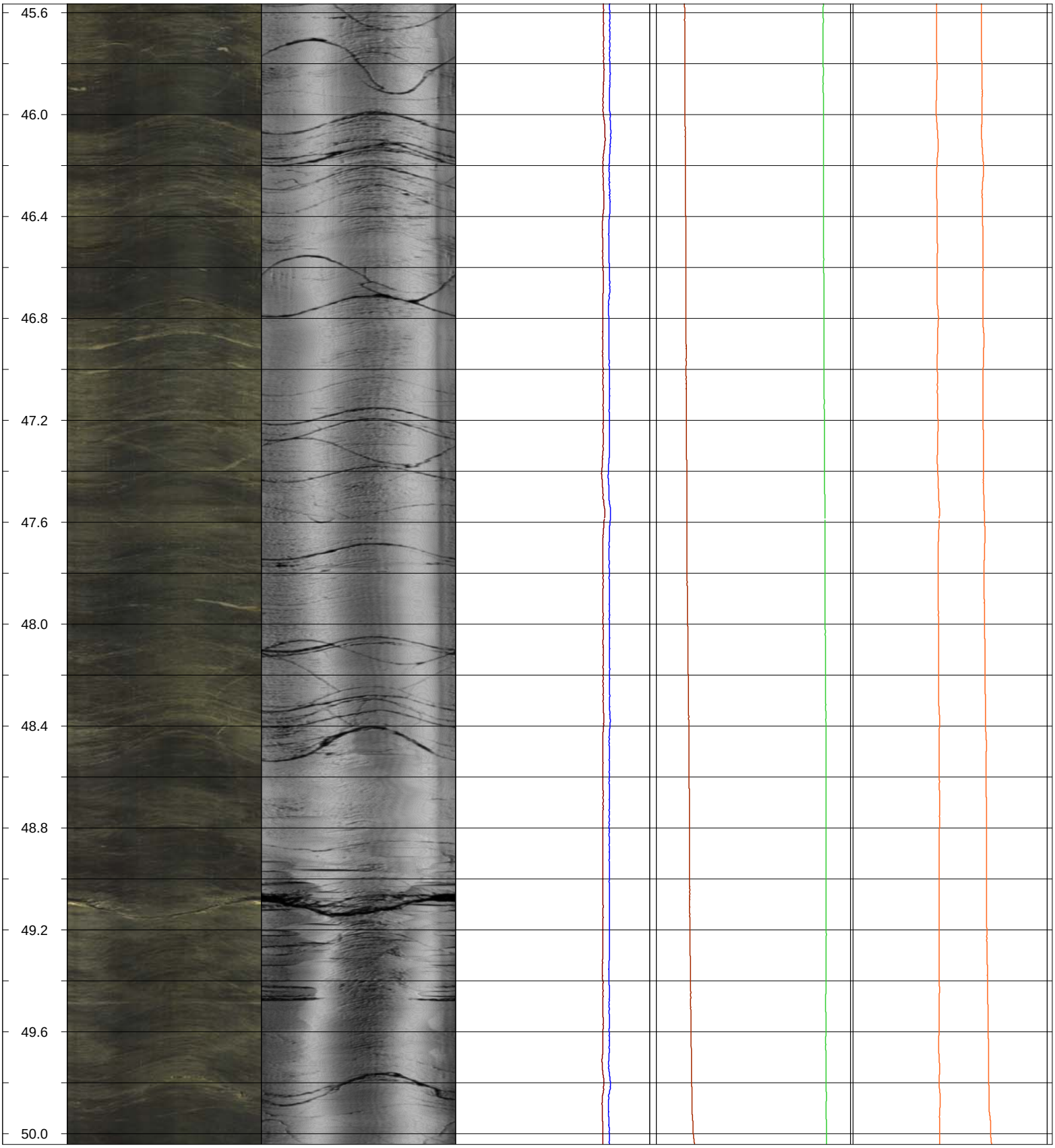
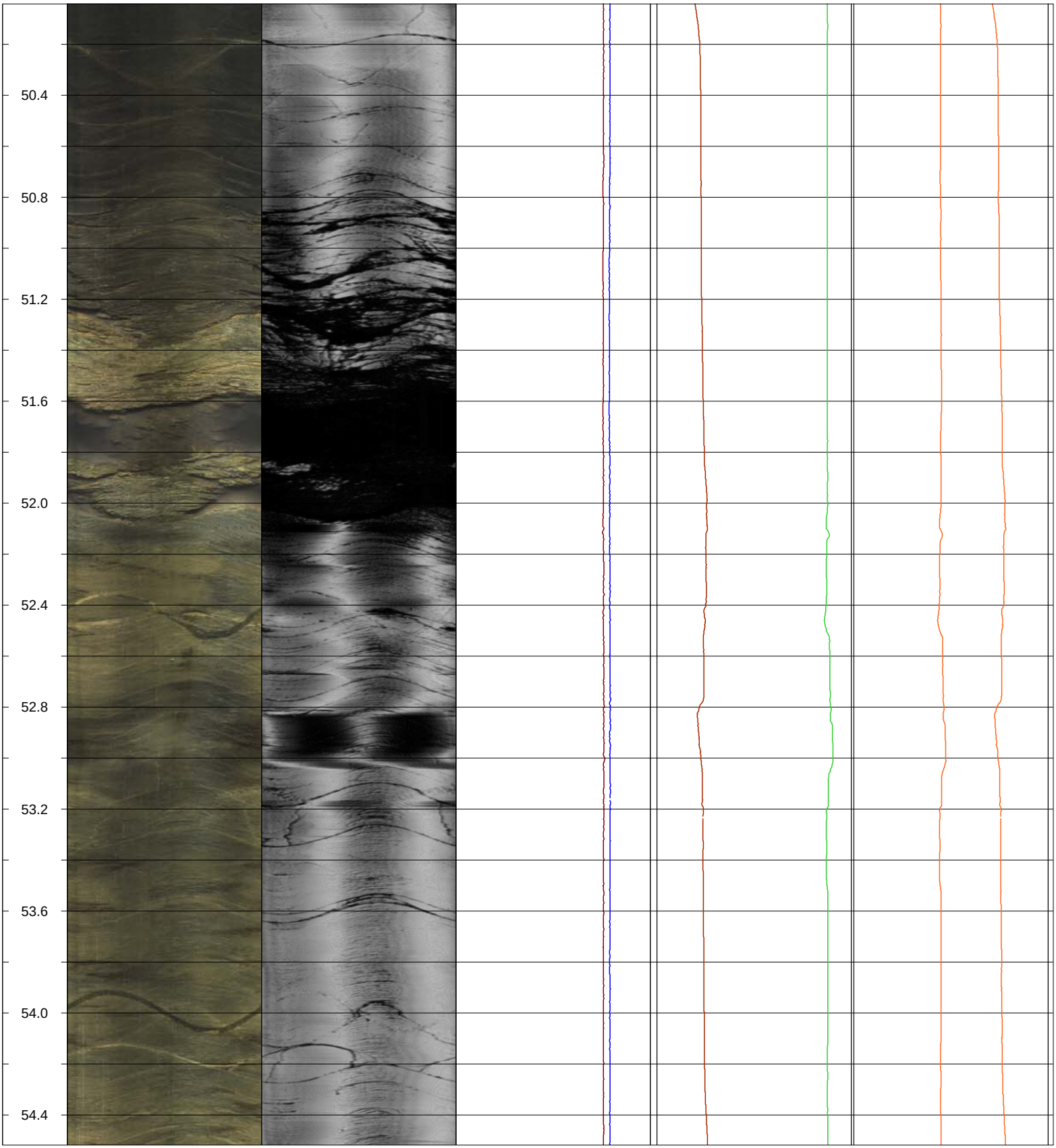
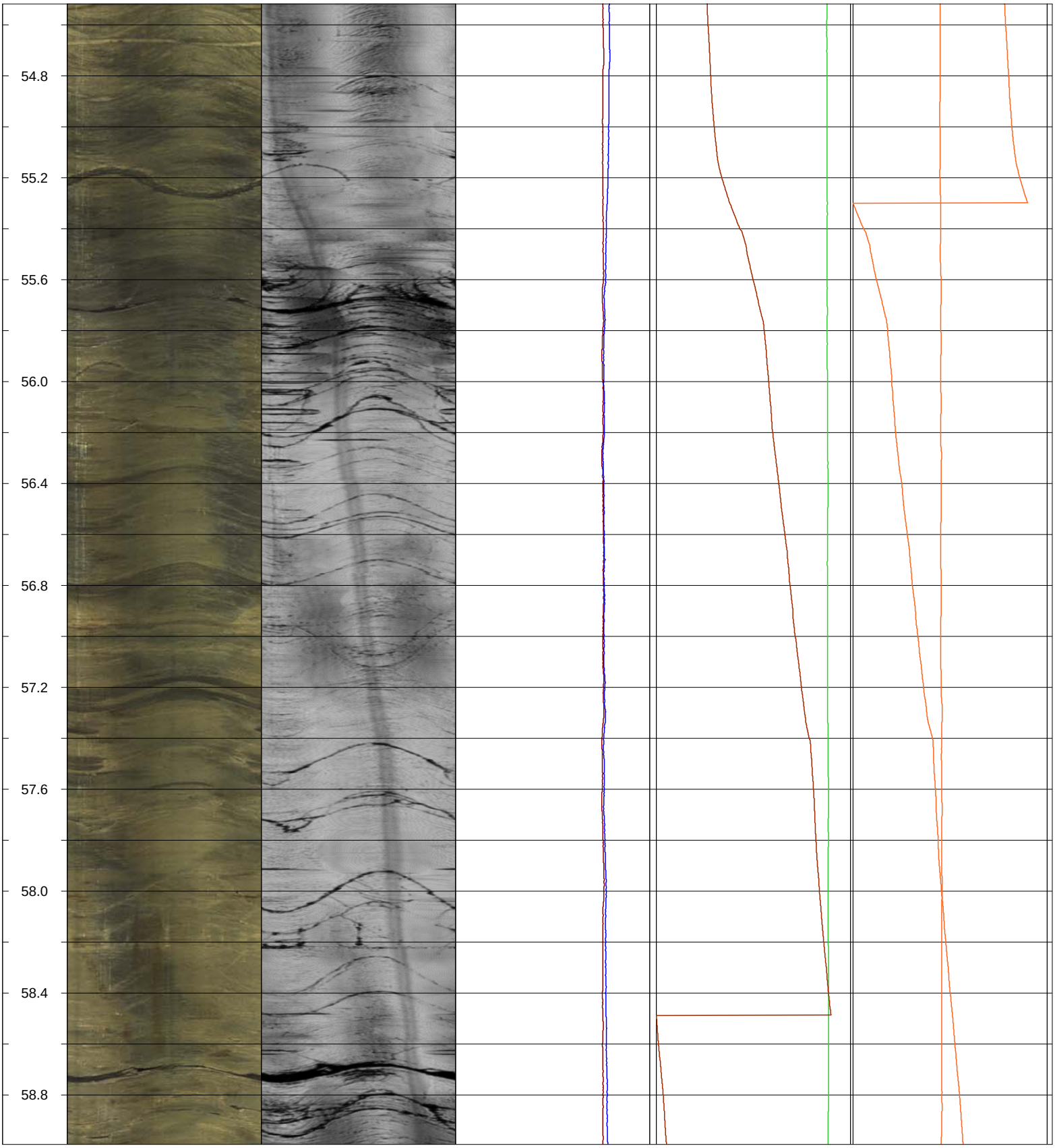


K17-422 Opictal & Acoustic Televiewer Survey Cont.



K17-422 Opictal & Acoustic Televiewer Survey Cont.



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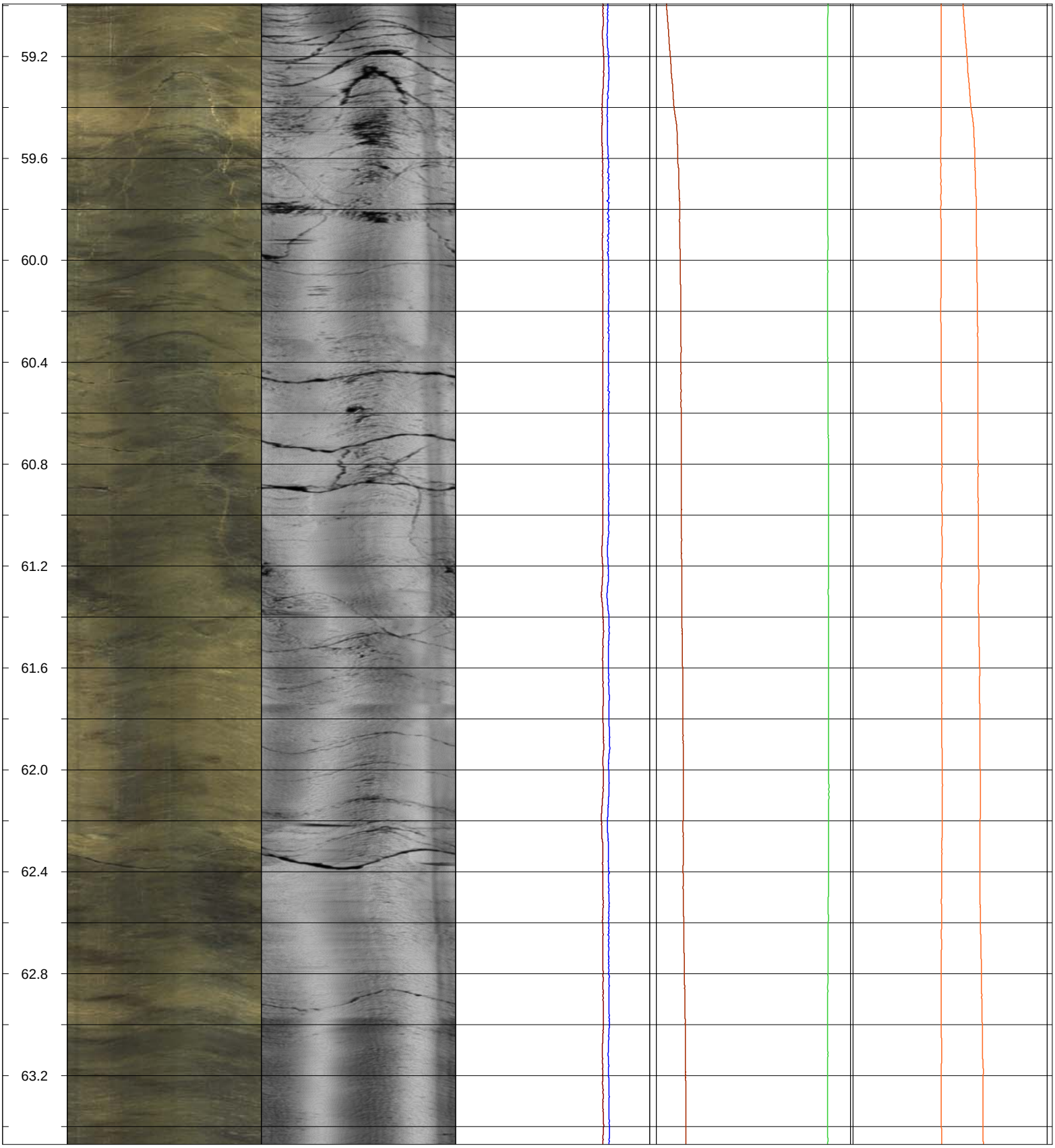
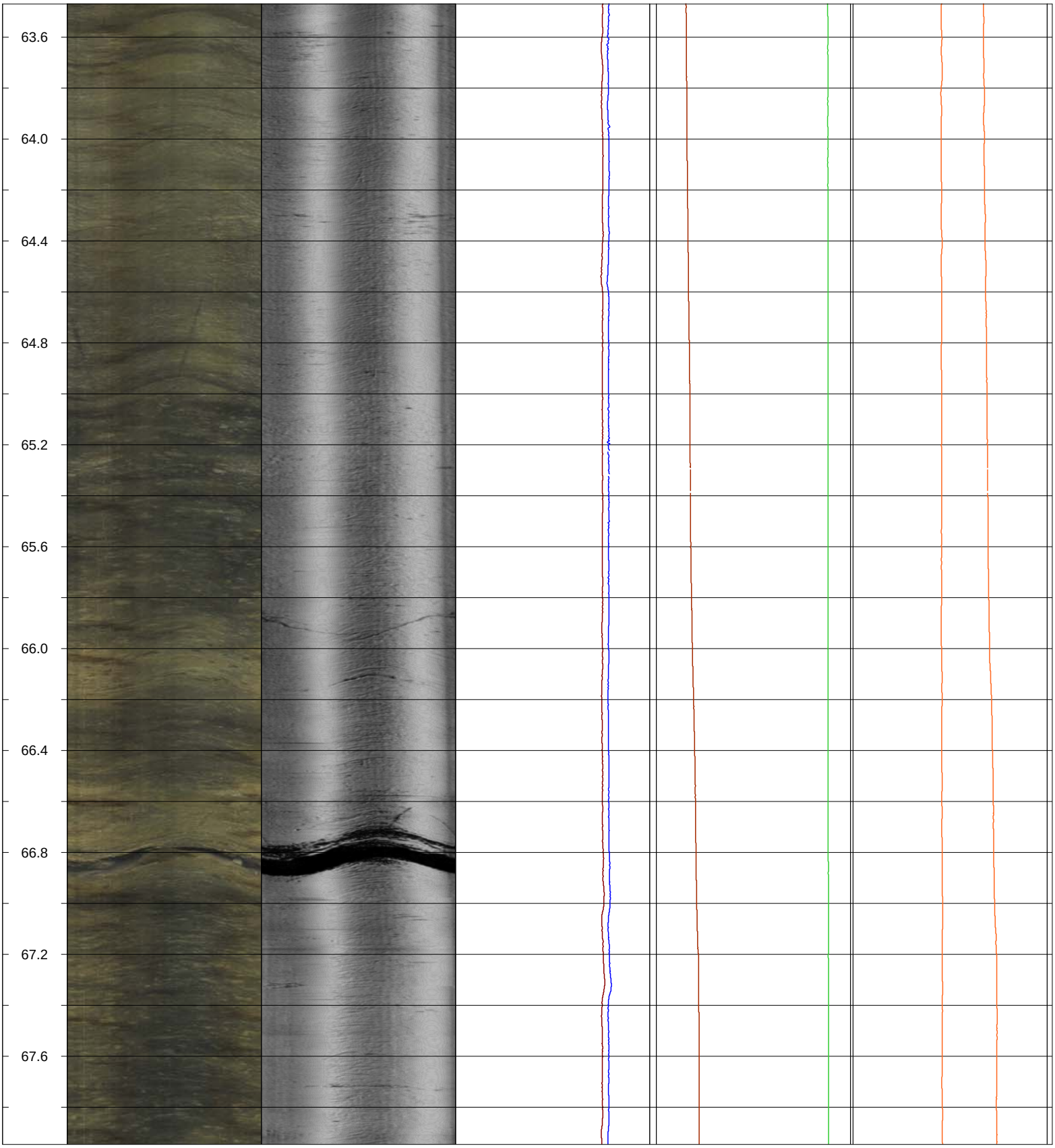
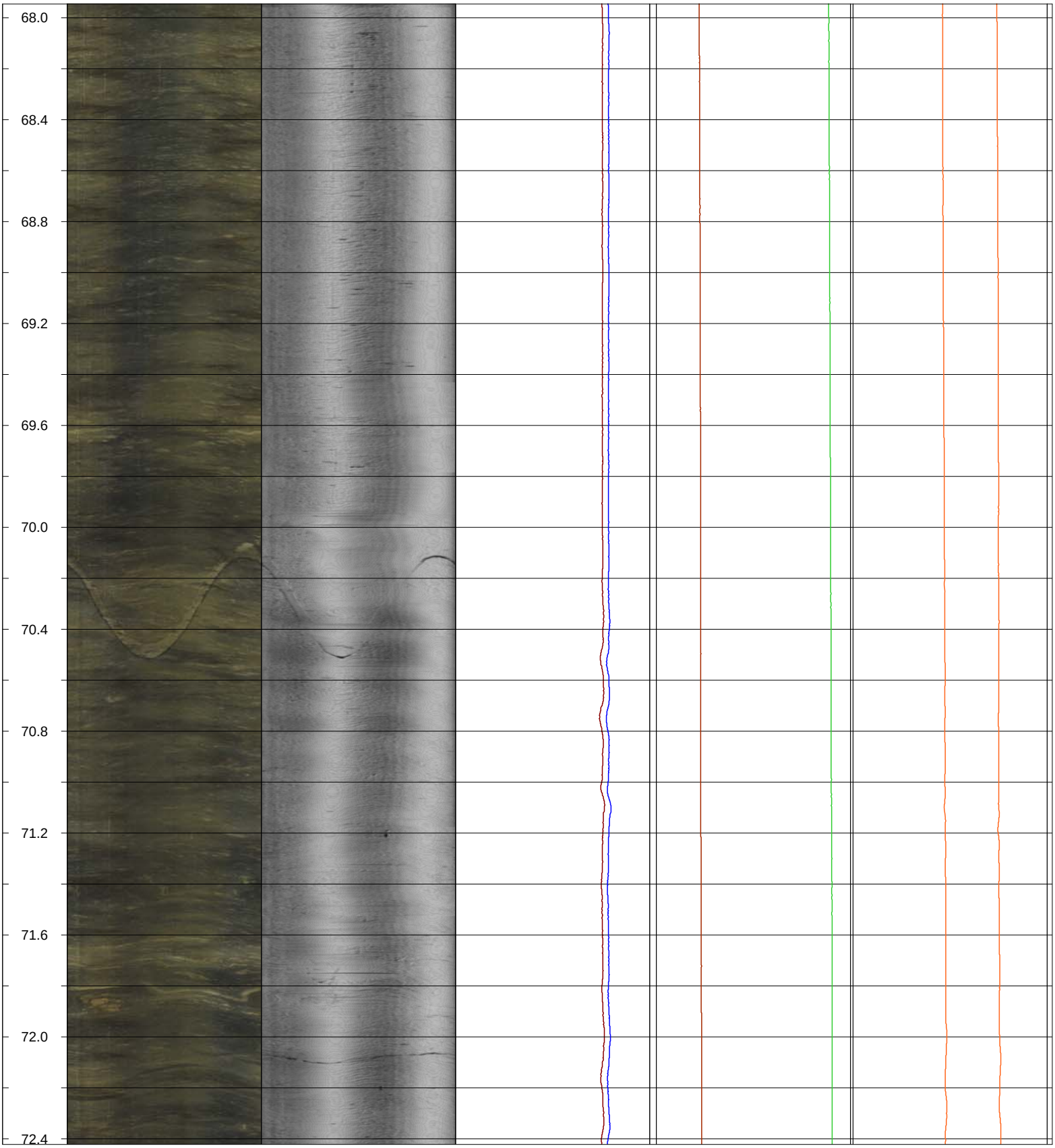


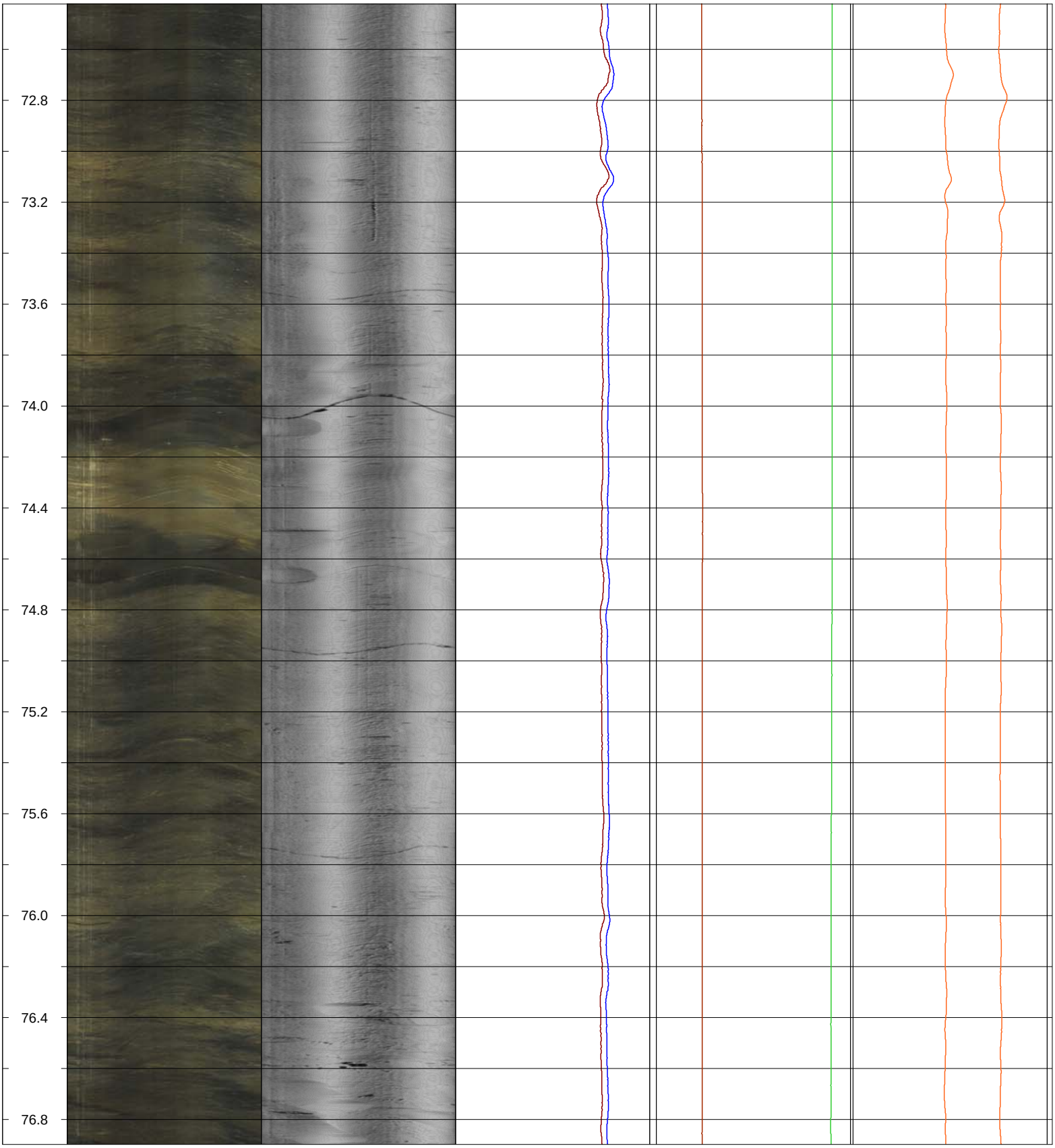
K17-422 Opictal & Acoustic Televiewer Survey Cont.



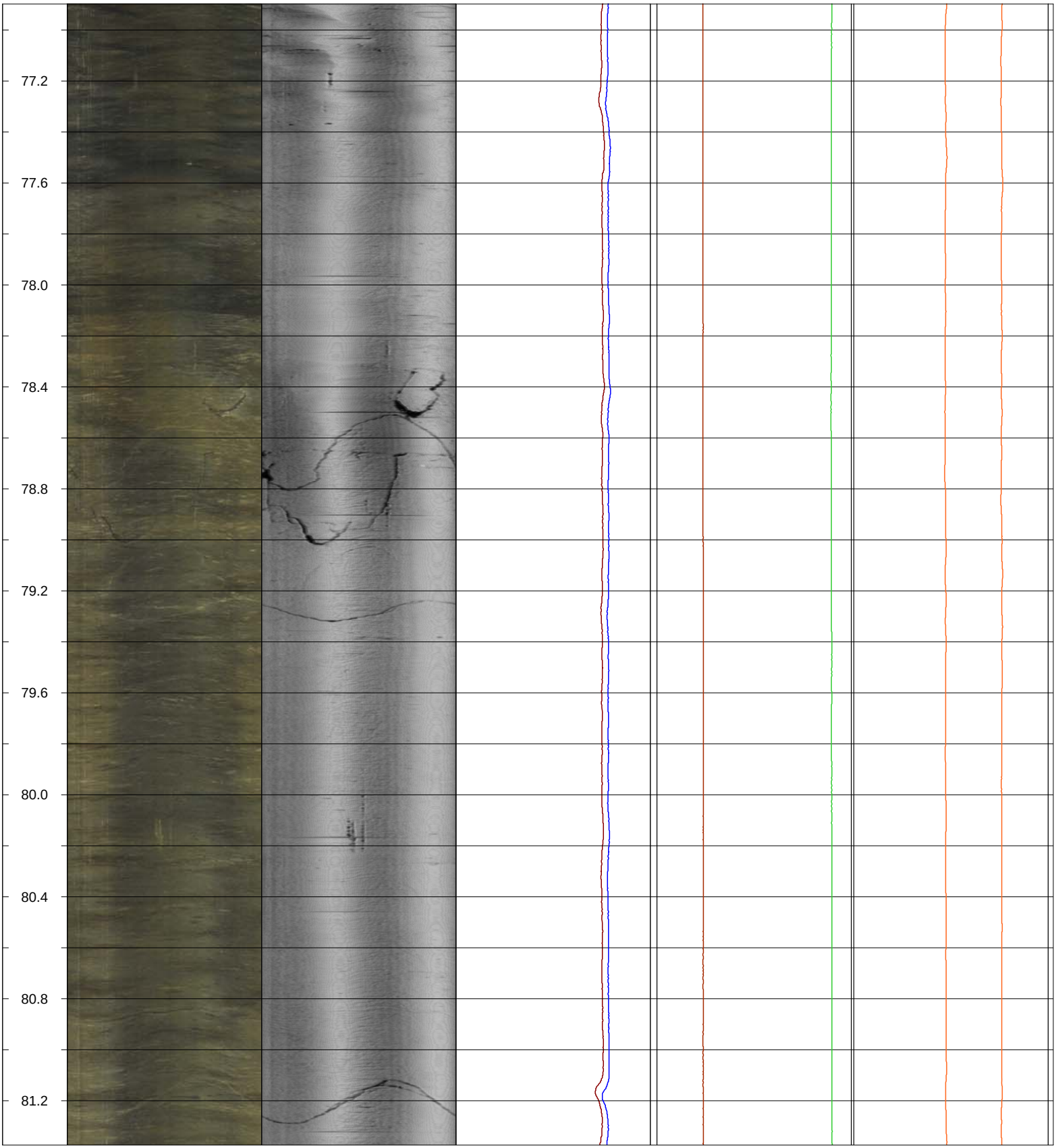
K17-422 Opictal & Acoustic Televiewer Survey Cont.



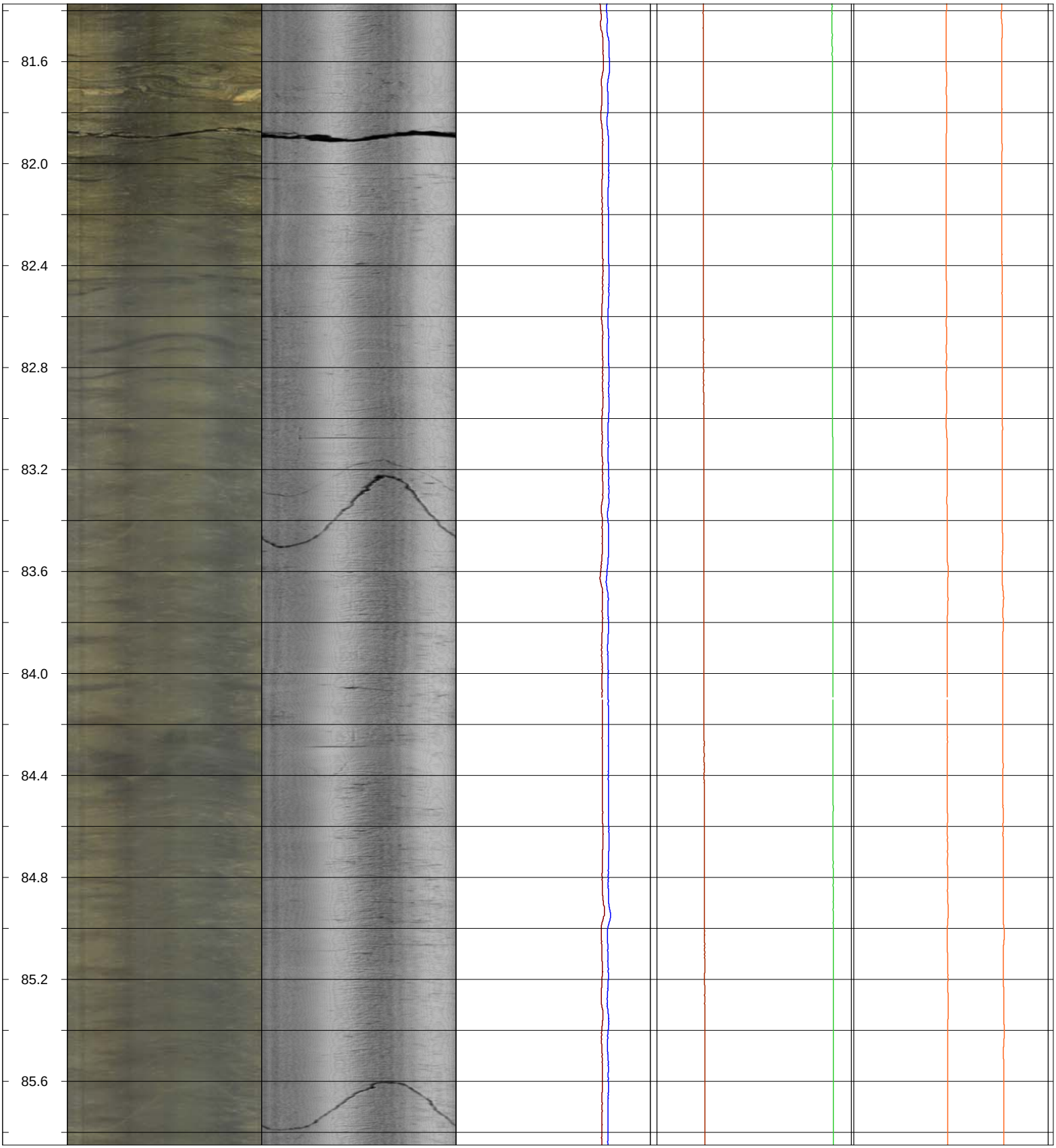
K17-422 Opictal & Acoustic Televiewer Survey Cont.



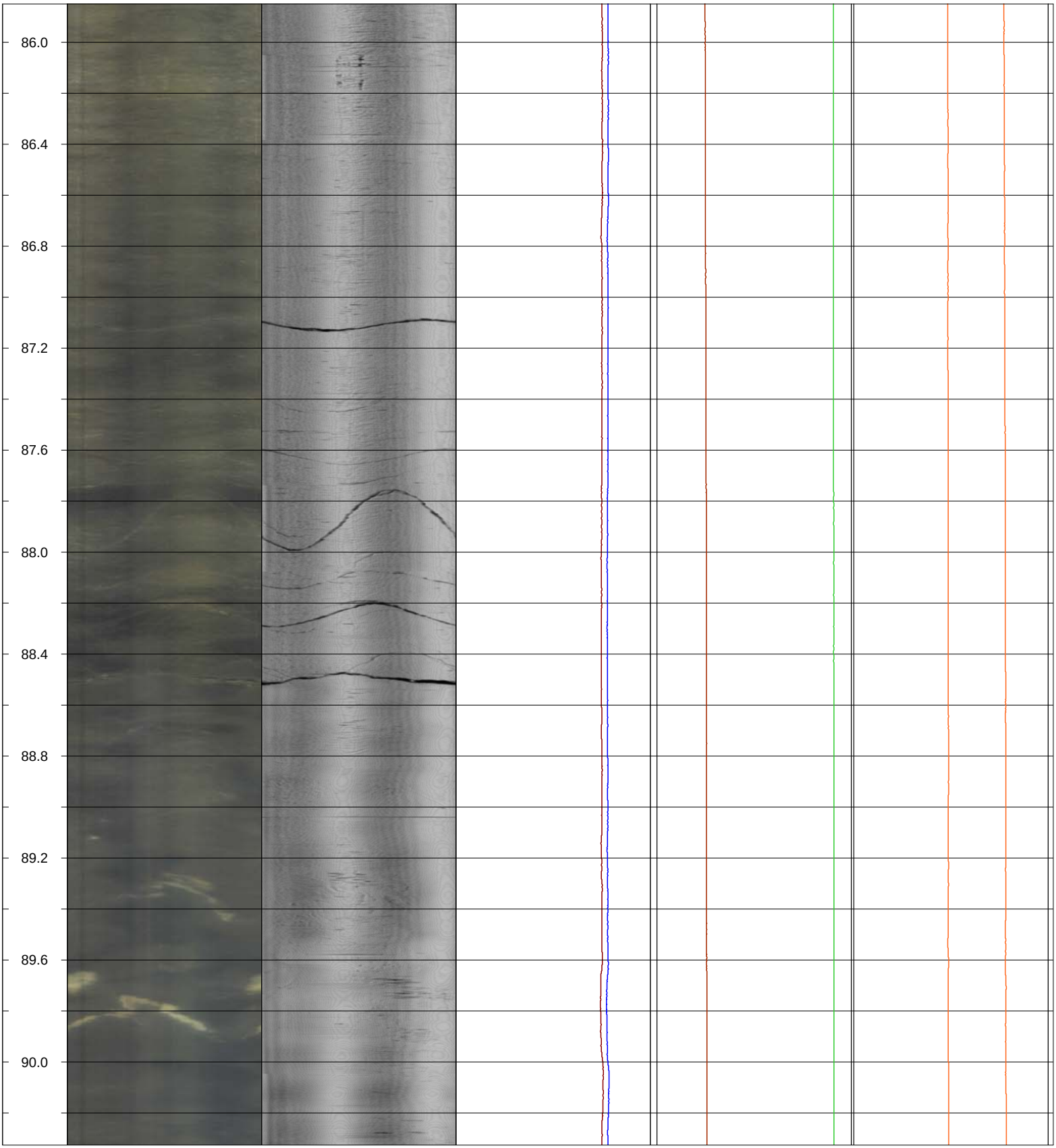
K17-422 Opictal & Acoustic Televiewer Survey Cont.



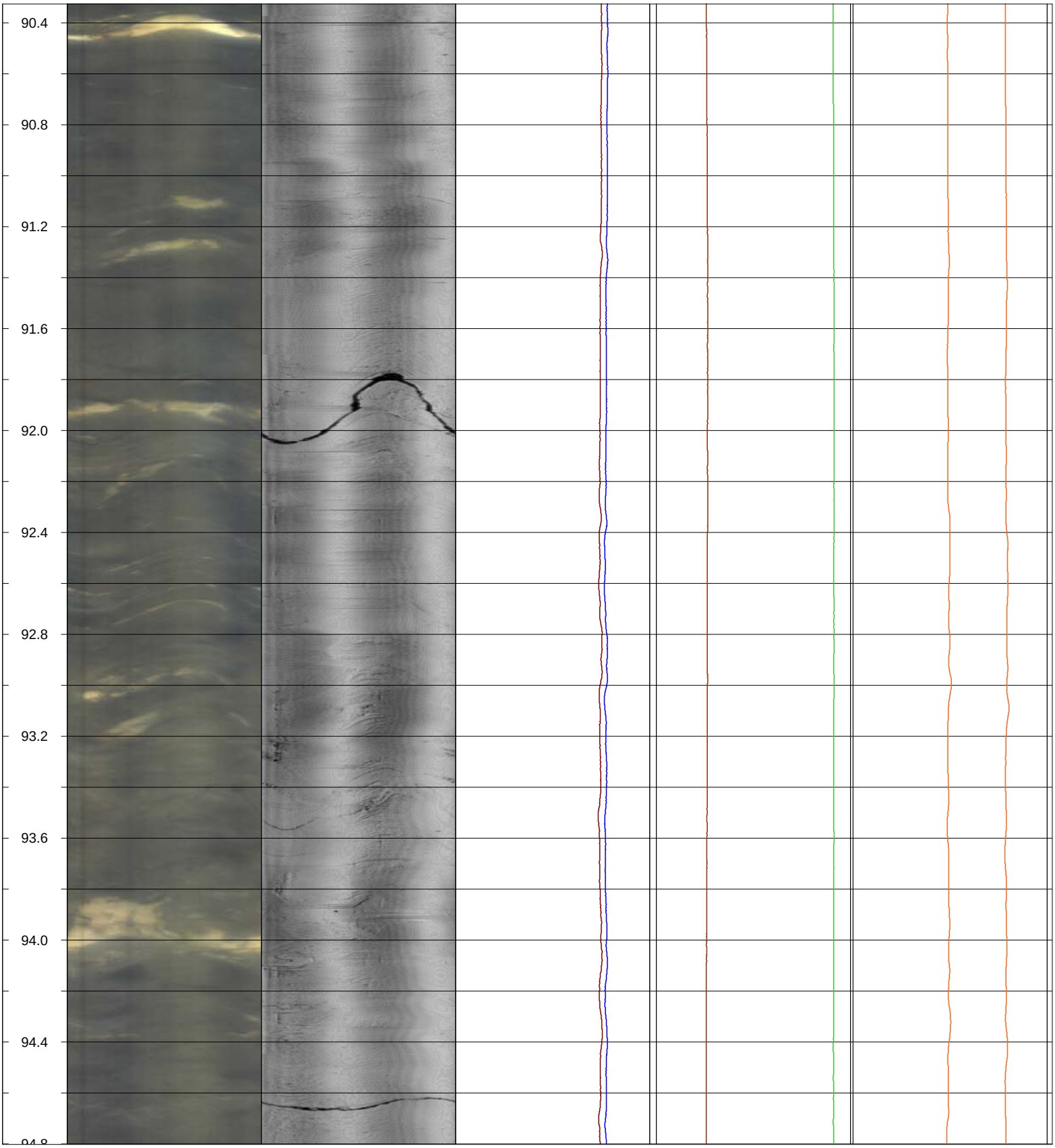
K17-422 Opictal & Acoustic Televiewer Survey Cont.



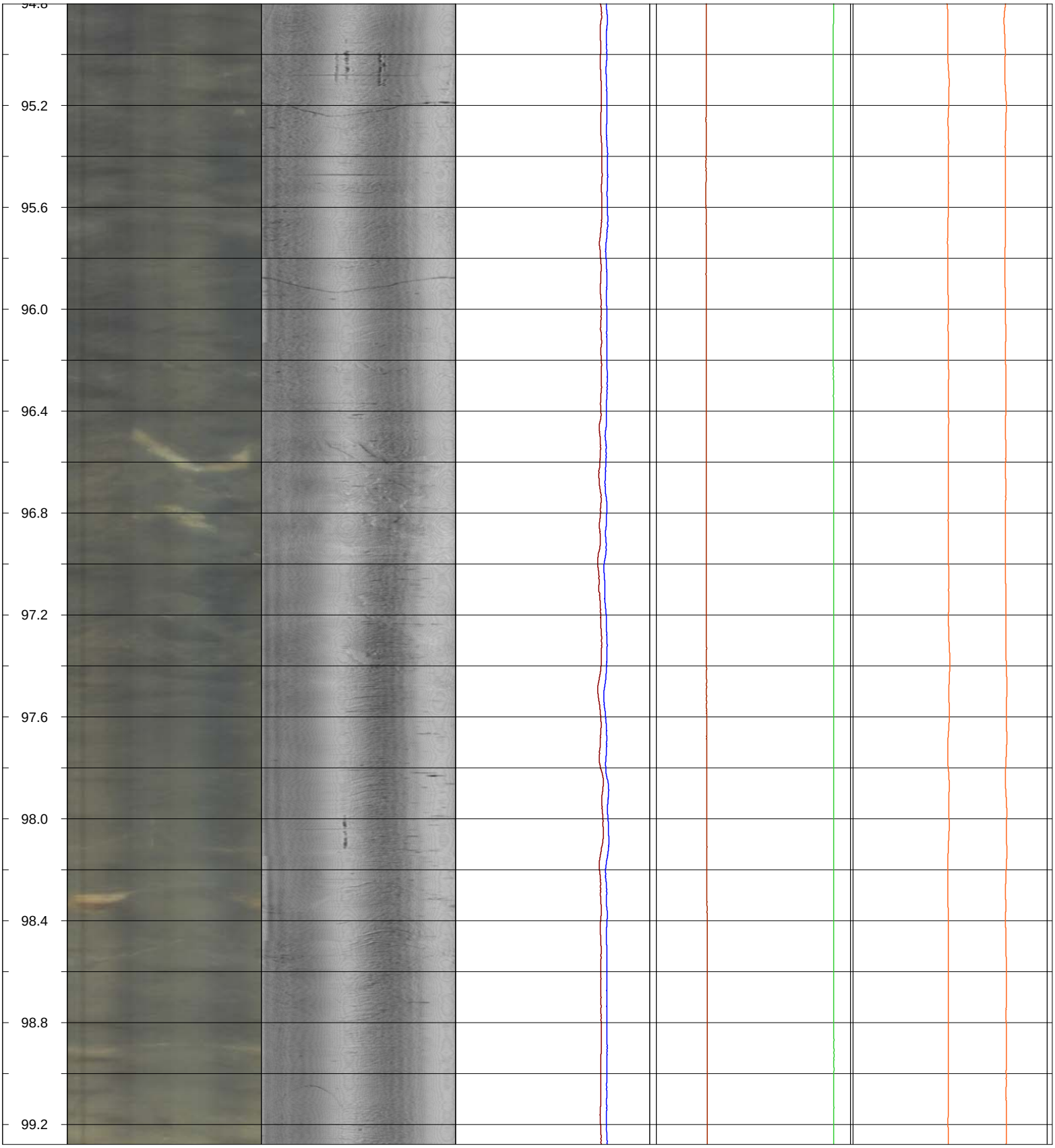
K17-422 Opictal & Acoustic Televiewer Survey Cont.



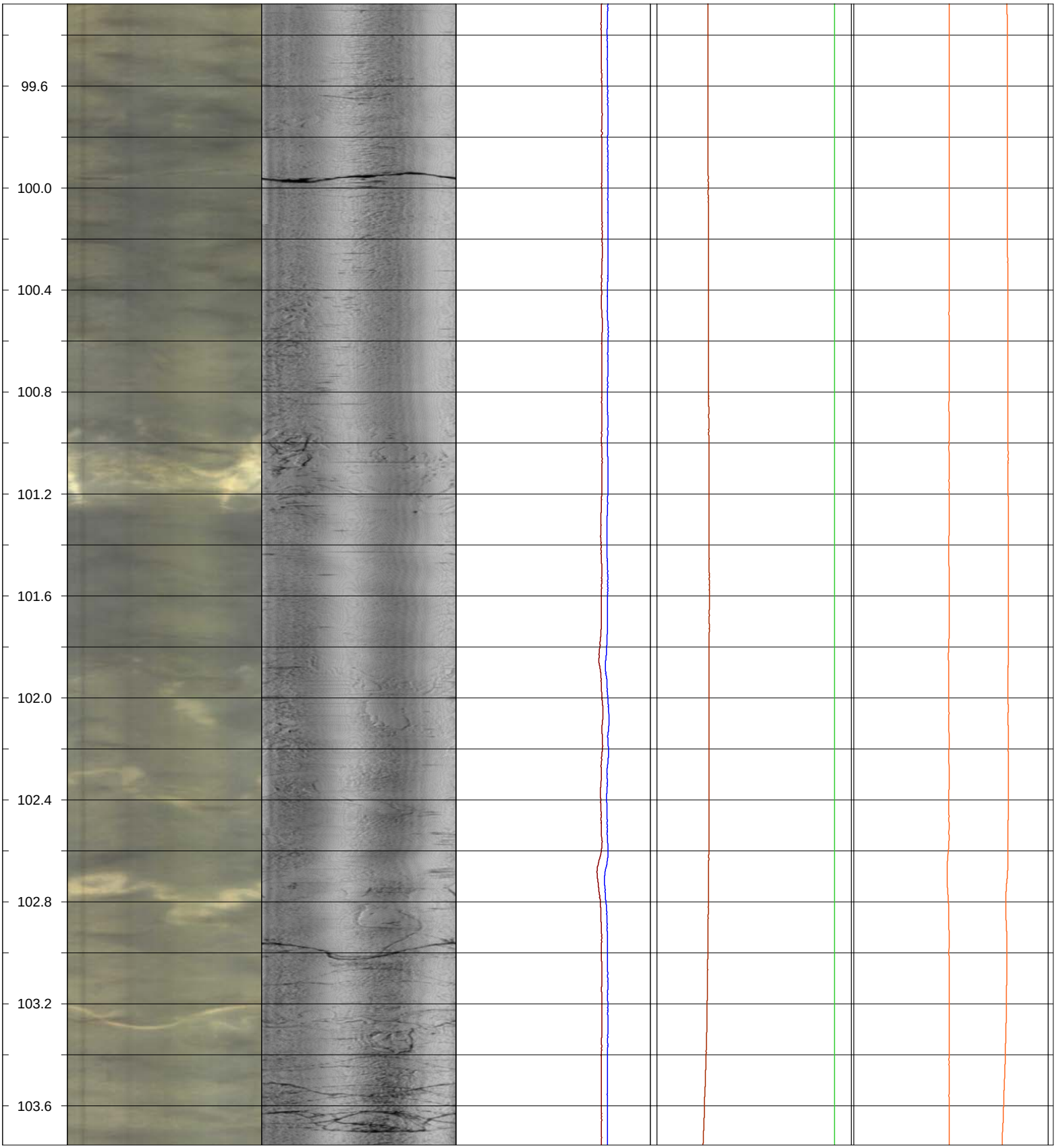
K17-422 Opictal & Acoustic Televiewer Survey Cont.



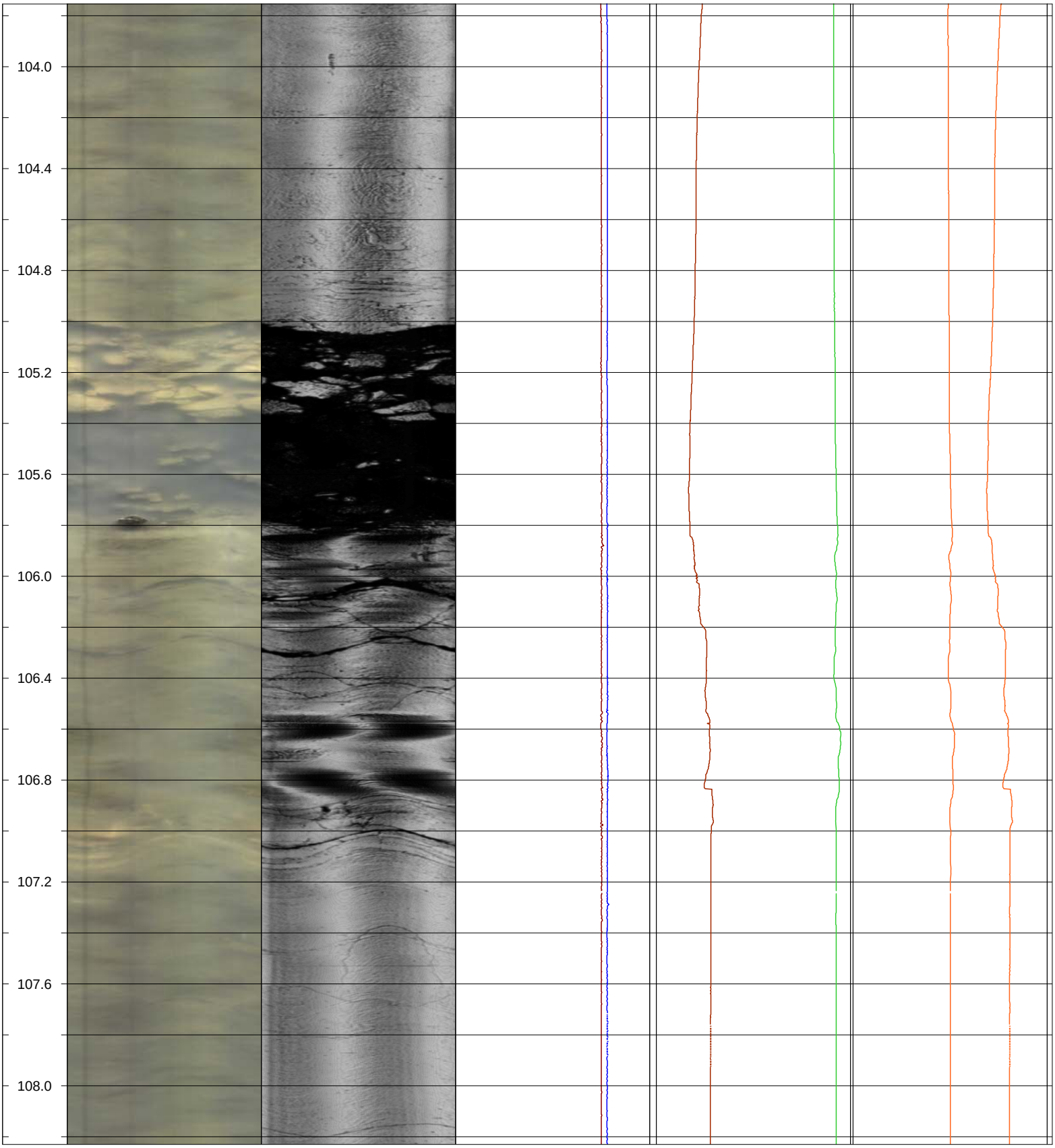
K17-422 Opictal & Acoustic Televiewer Survey Cont.



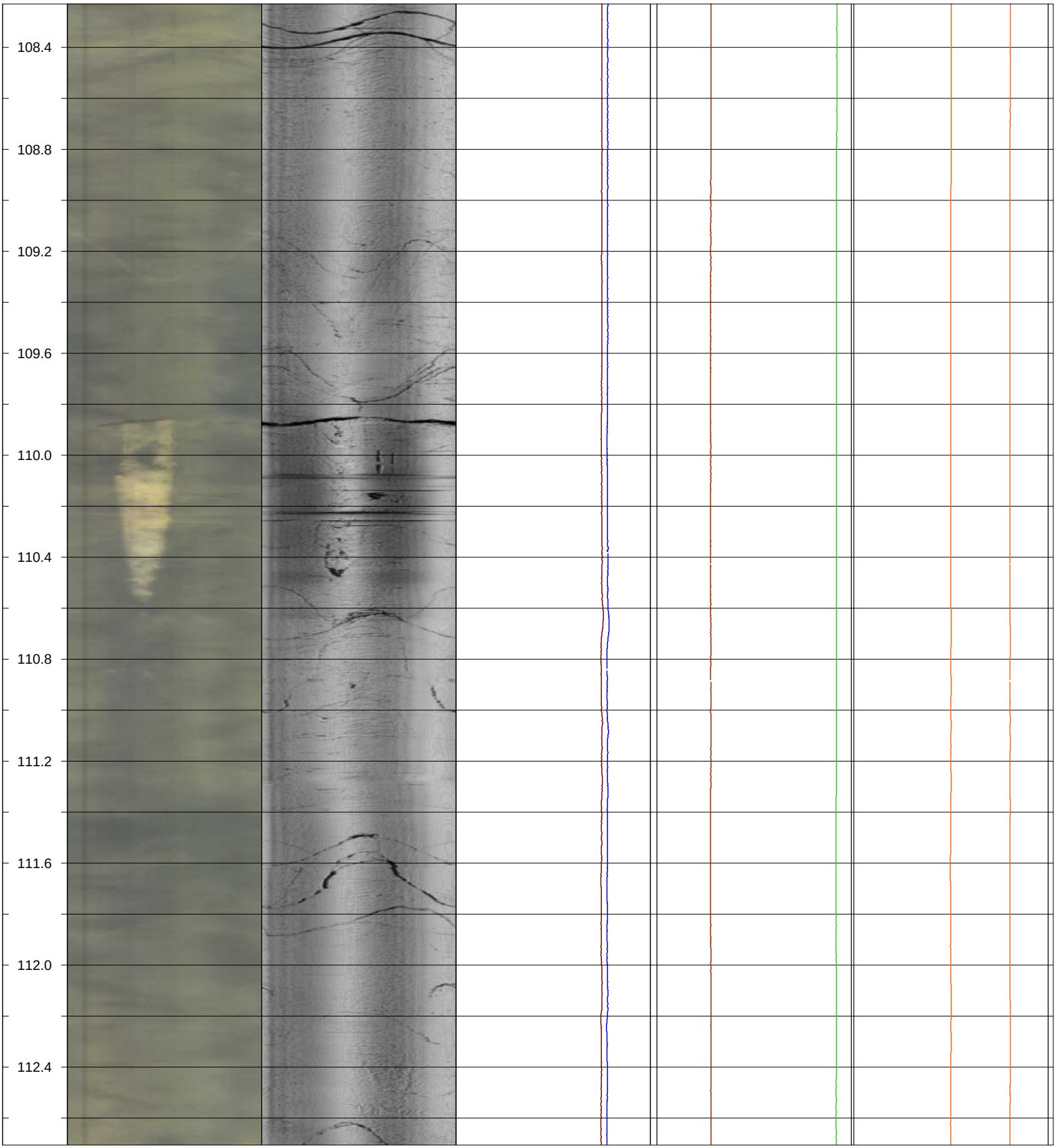
K17-422 Opictal & Acoustic Televiewer Survey Cont.



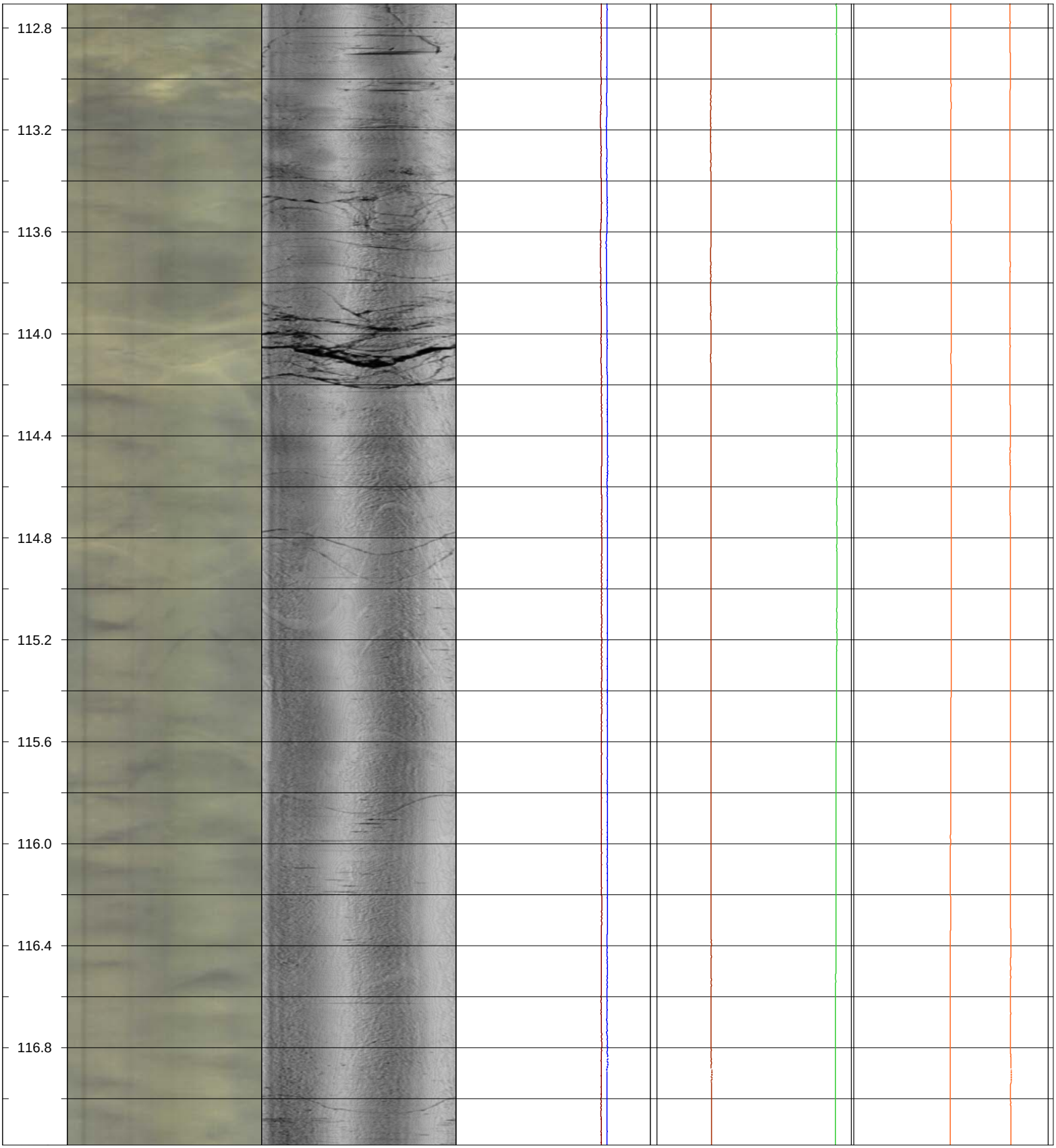
K17-422 Opictal & Acoustic Televiewer Survey Cont.



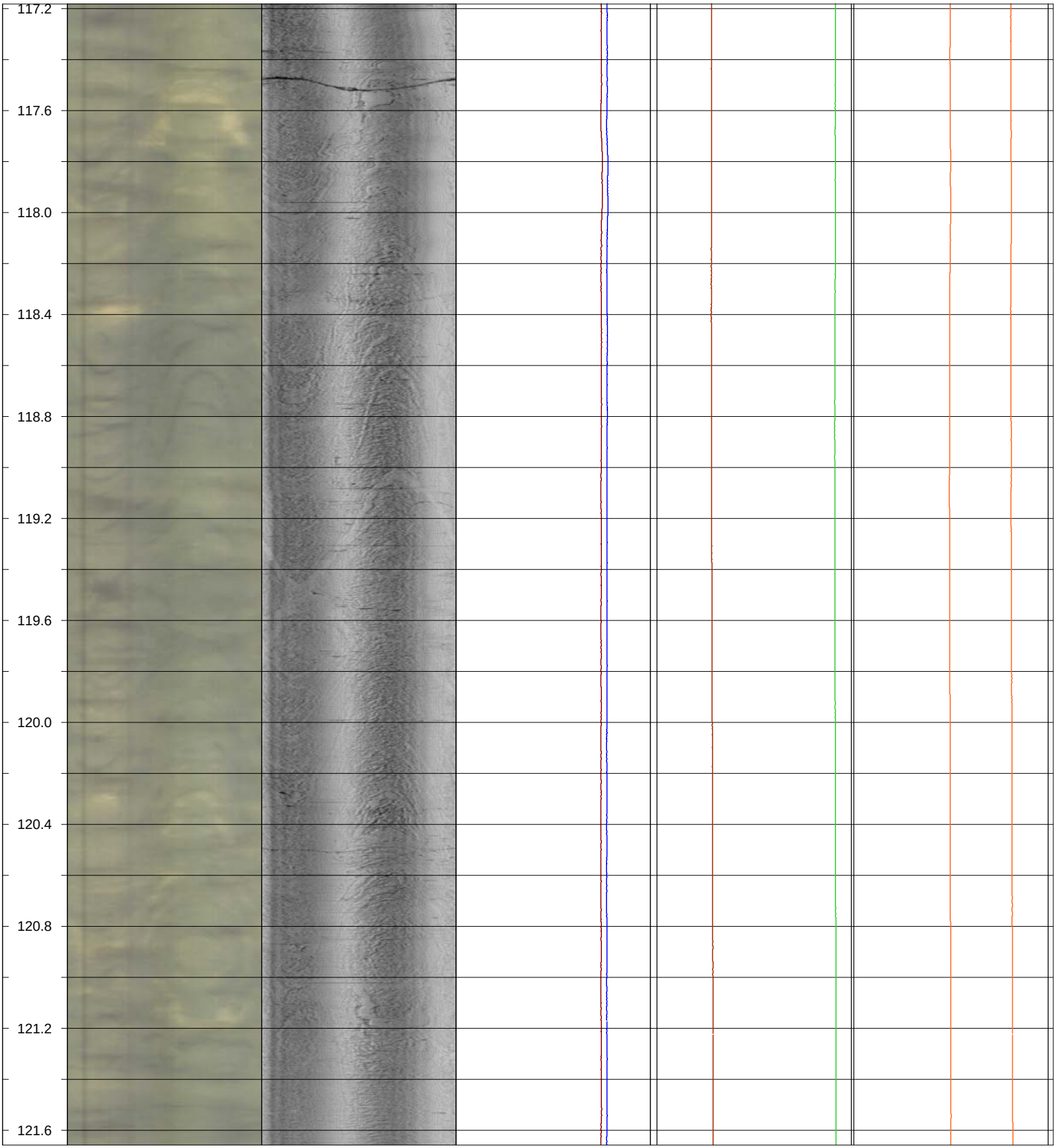
K17-422 Opictal & Acoustic Televiewer Survey Cont.



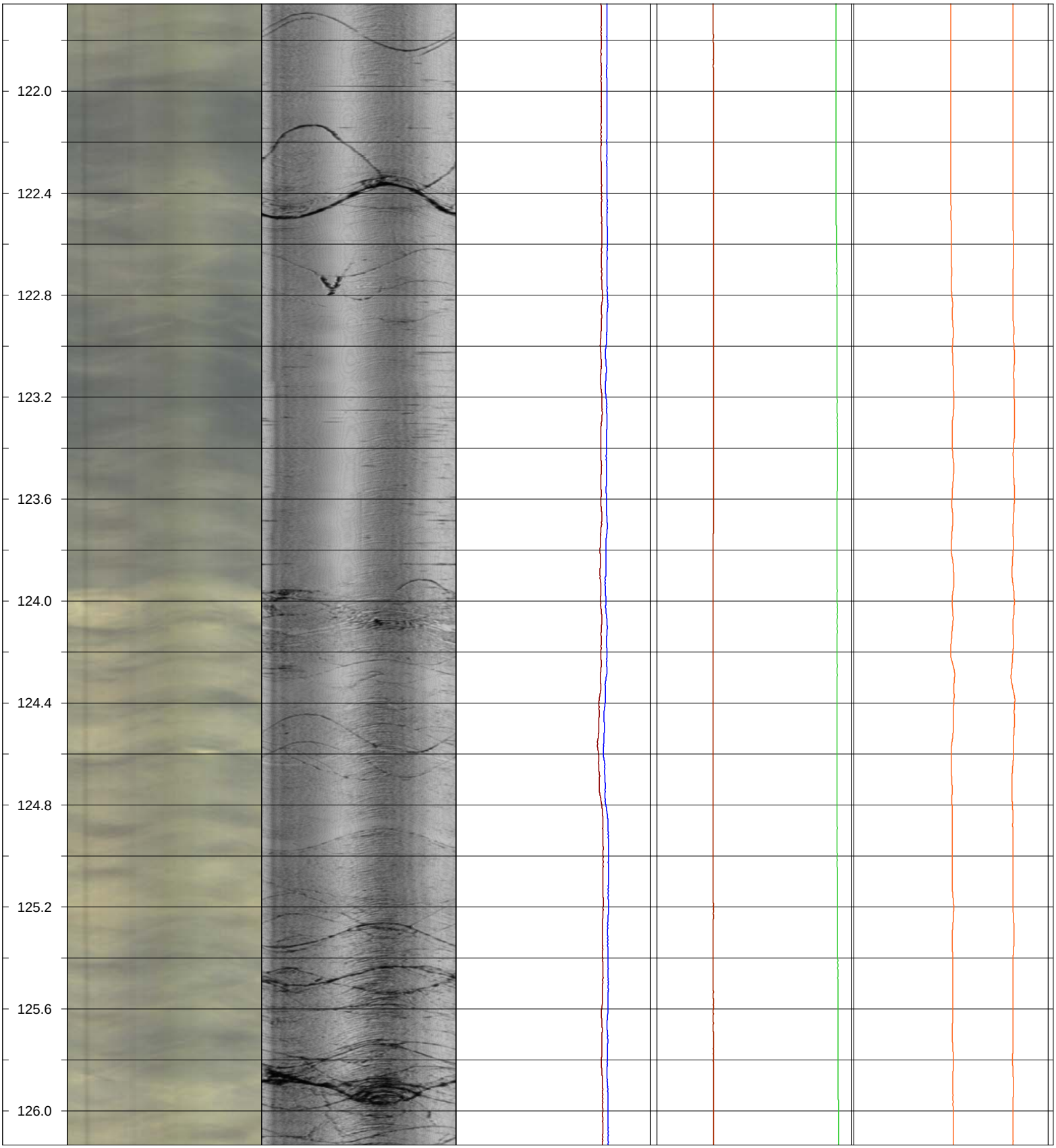
K17-422 Opictal & Acoustic Televiewer Survey Cont.



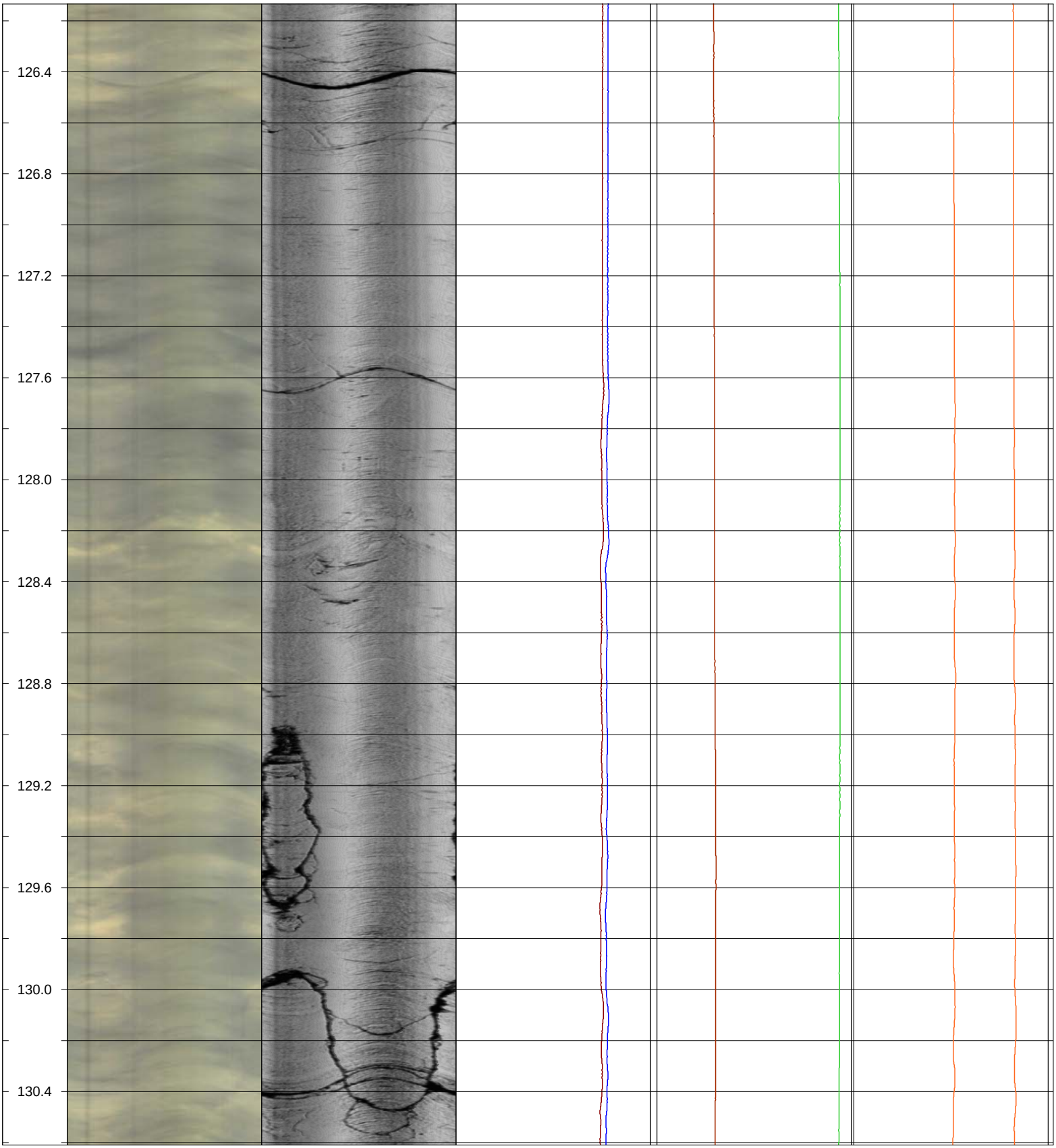
K17-422 Opictal & Acoustic Televiewer Survey Cont.



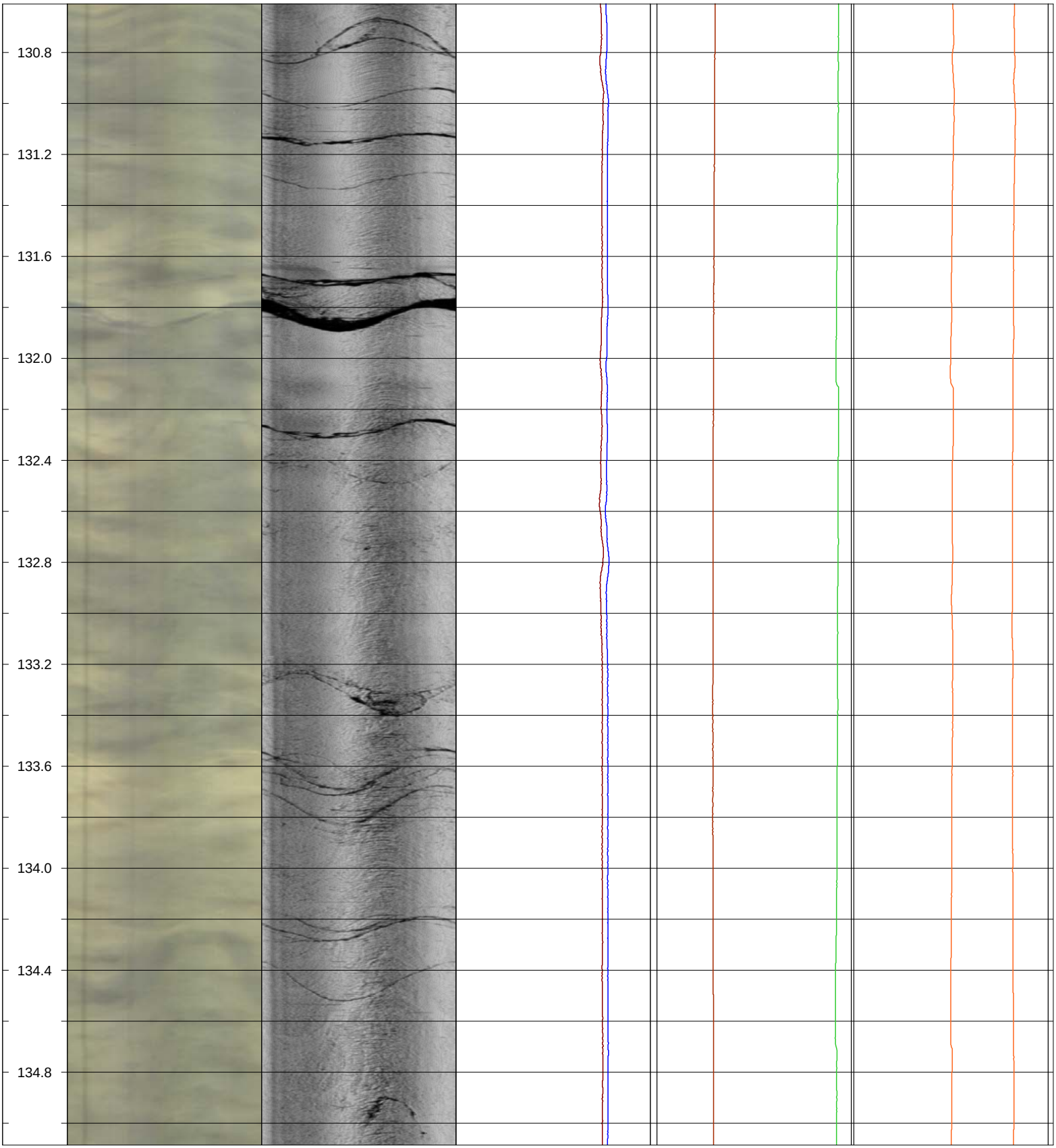
K17-422 Opictal & Acoustic Televiewer Survey Cont.



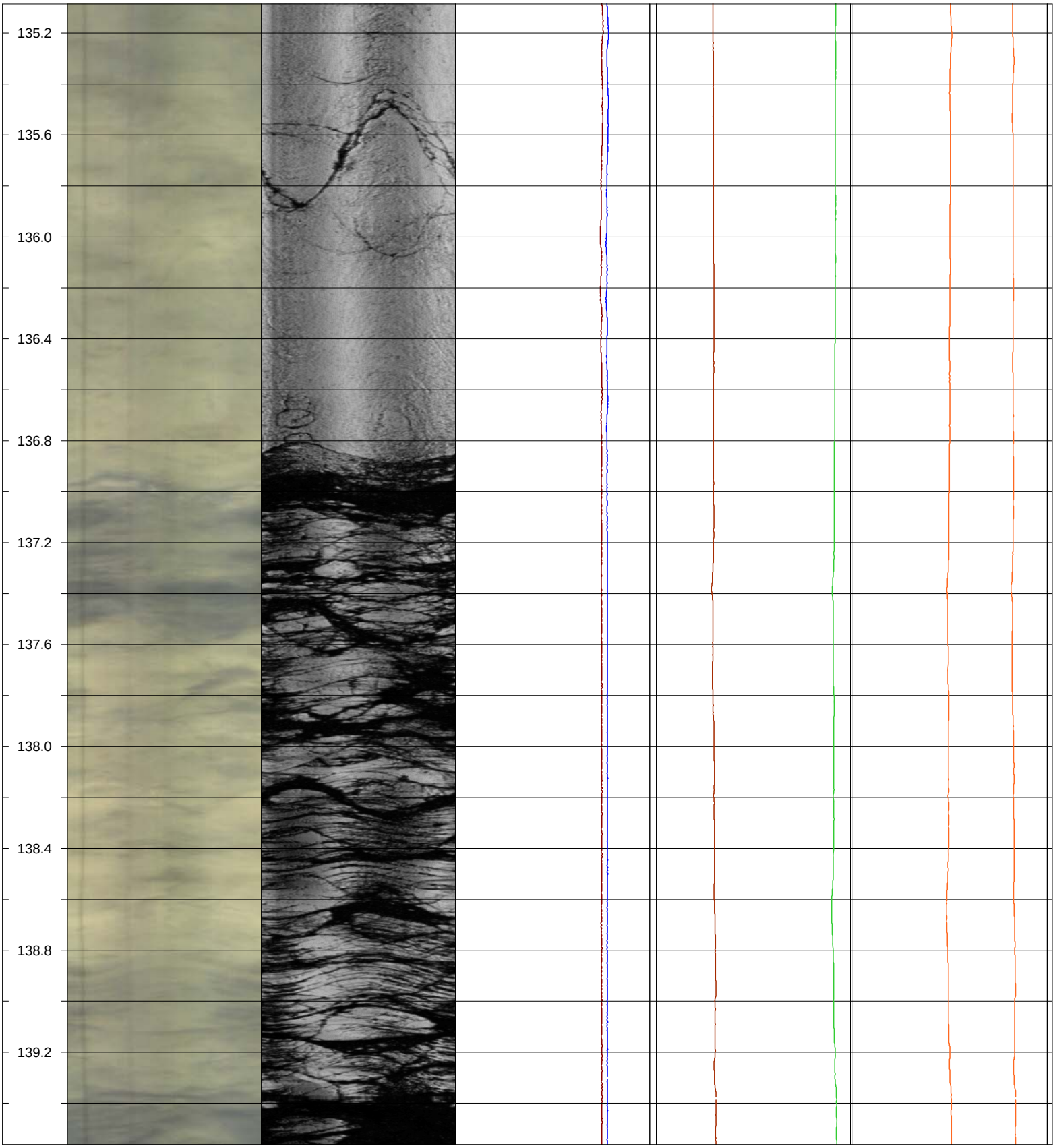
K17-422 Opictal & Acoustic Televiewer Survey Cont.



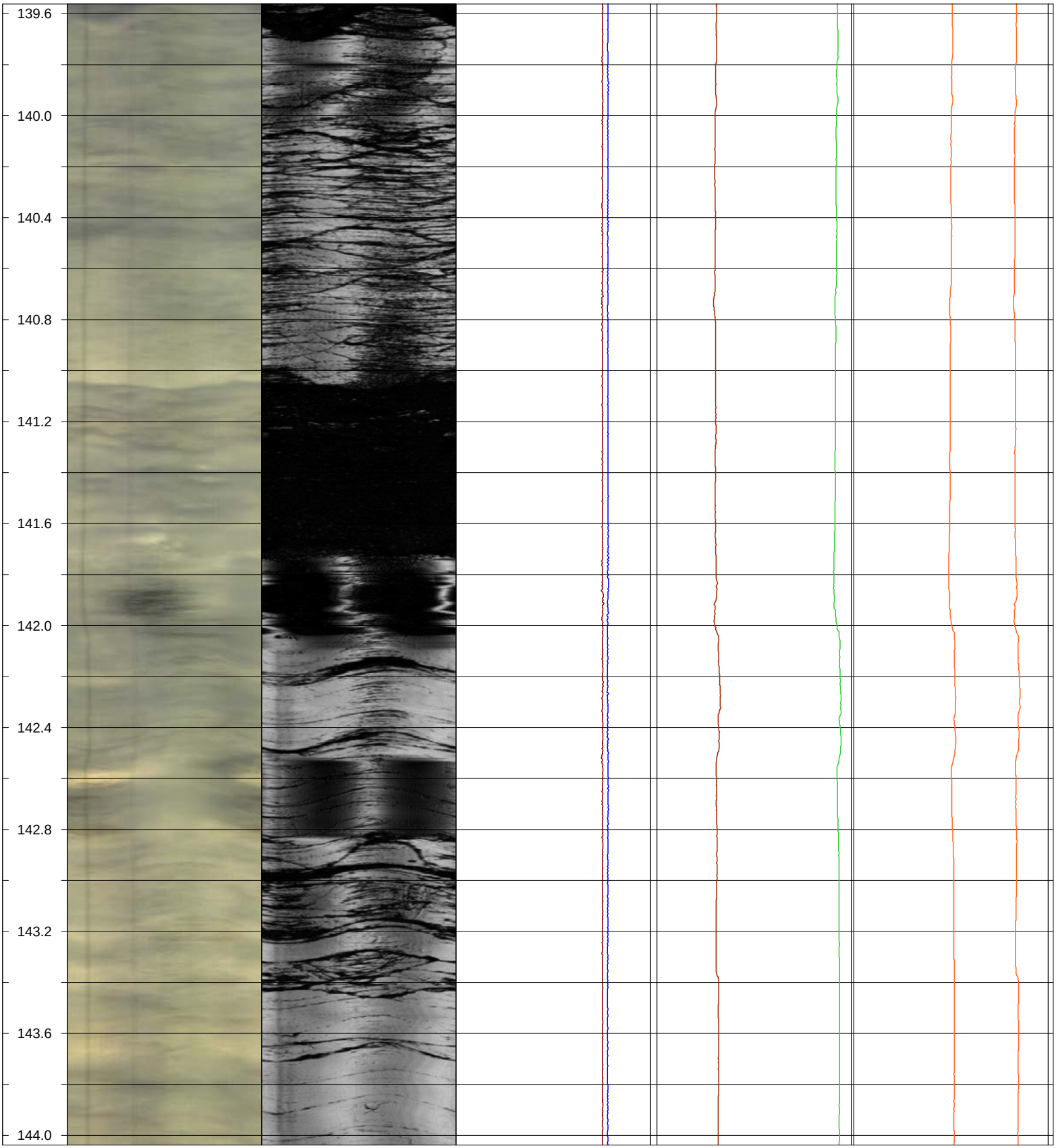
K17-422 Opictal & Acoustic Televiewer Survey Cont.



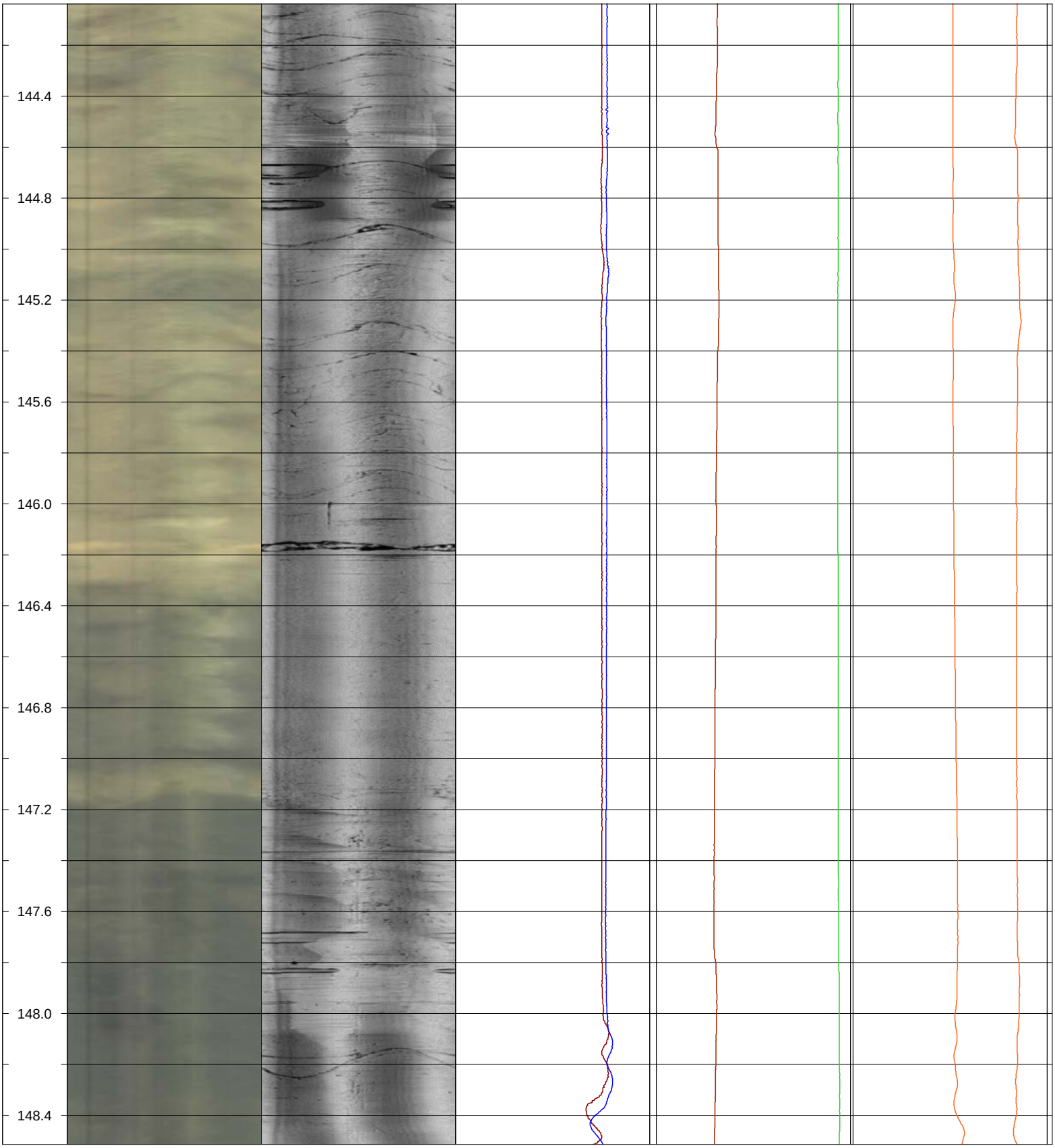
K17-422 Opictal & Acoustic Televiewer Survey Cont.



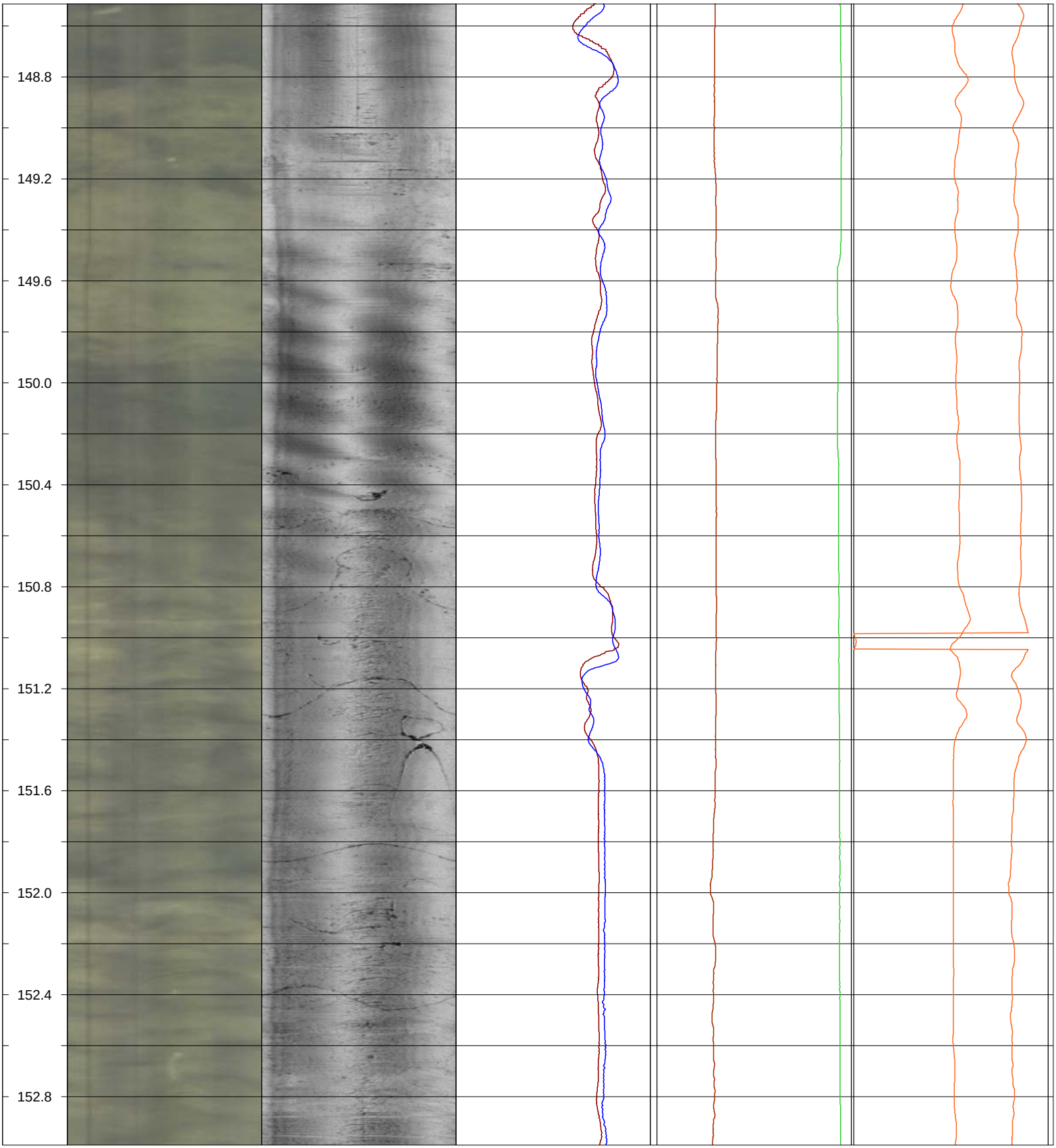
K17-422 Opictal & Acoustic Televiewer Survey Cont.



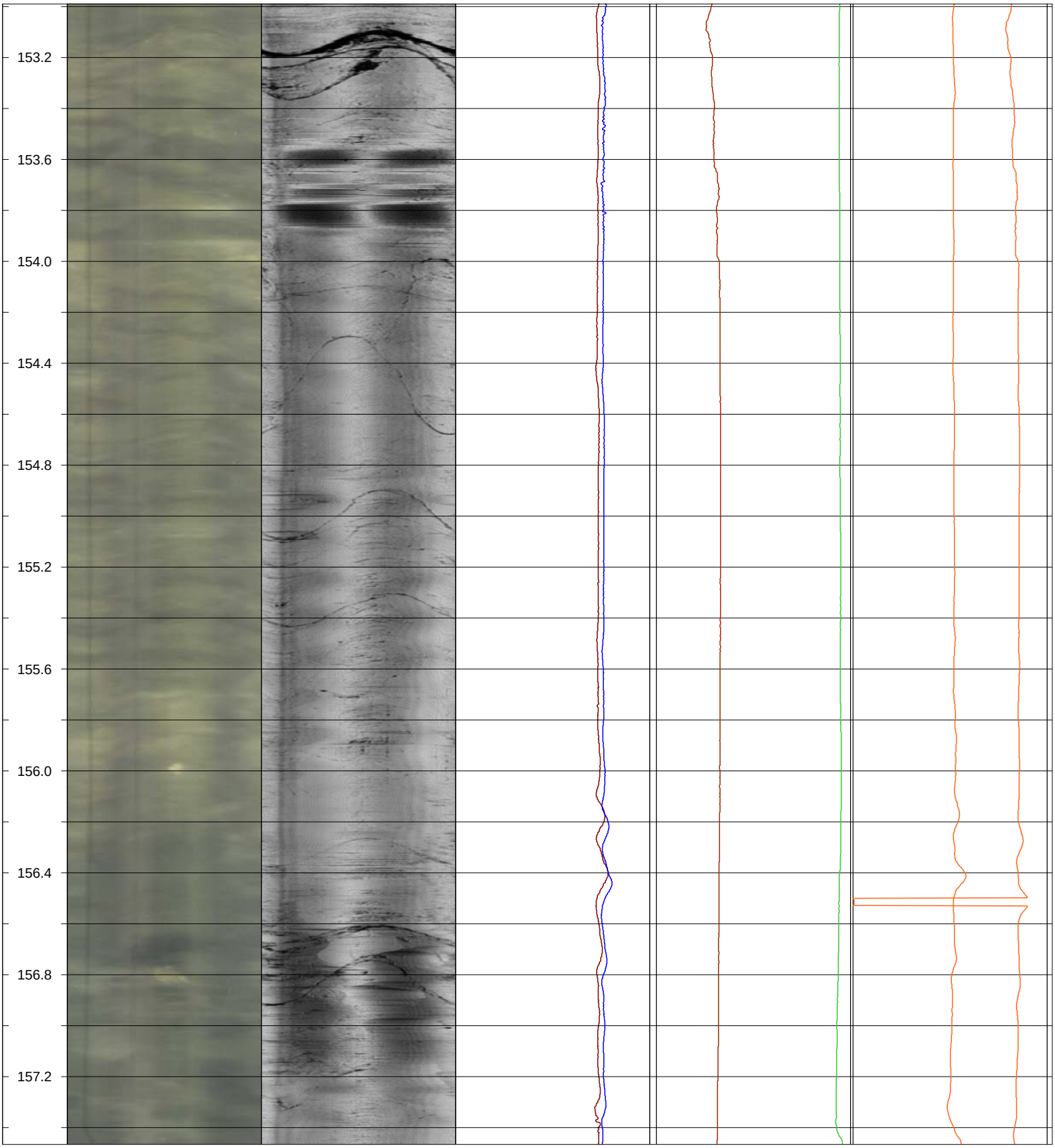
K17-422 Opictal & Acoustic Televiewer Survey Cont.



K17-422 Opictal & Acoustic Televiewer Survey Cont.



K17-422 Opictal & Acoustic Televiewer Survey Cont.



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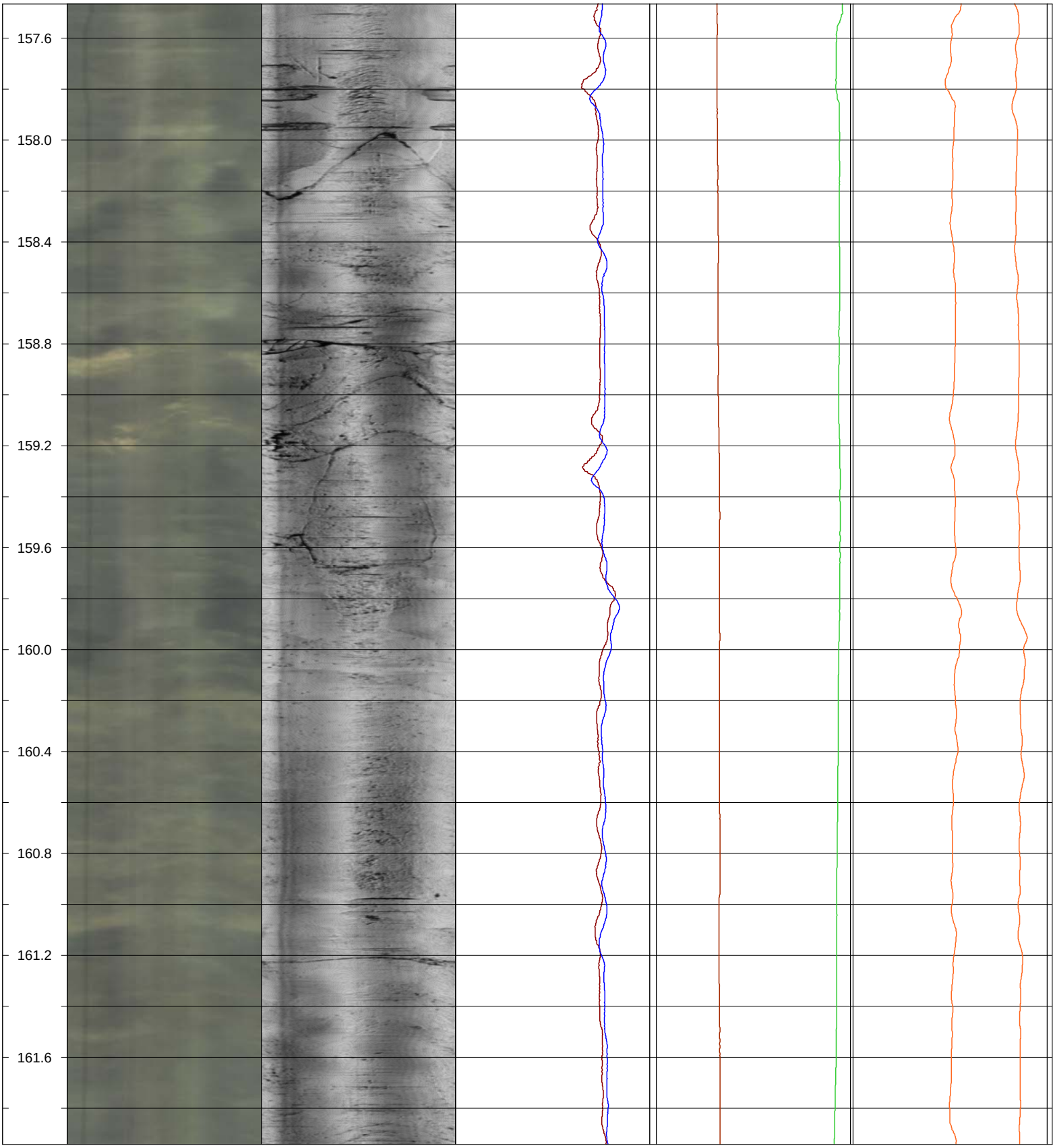

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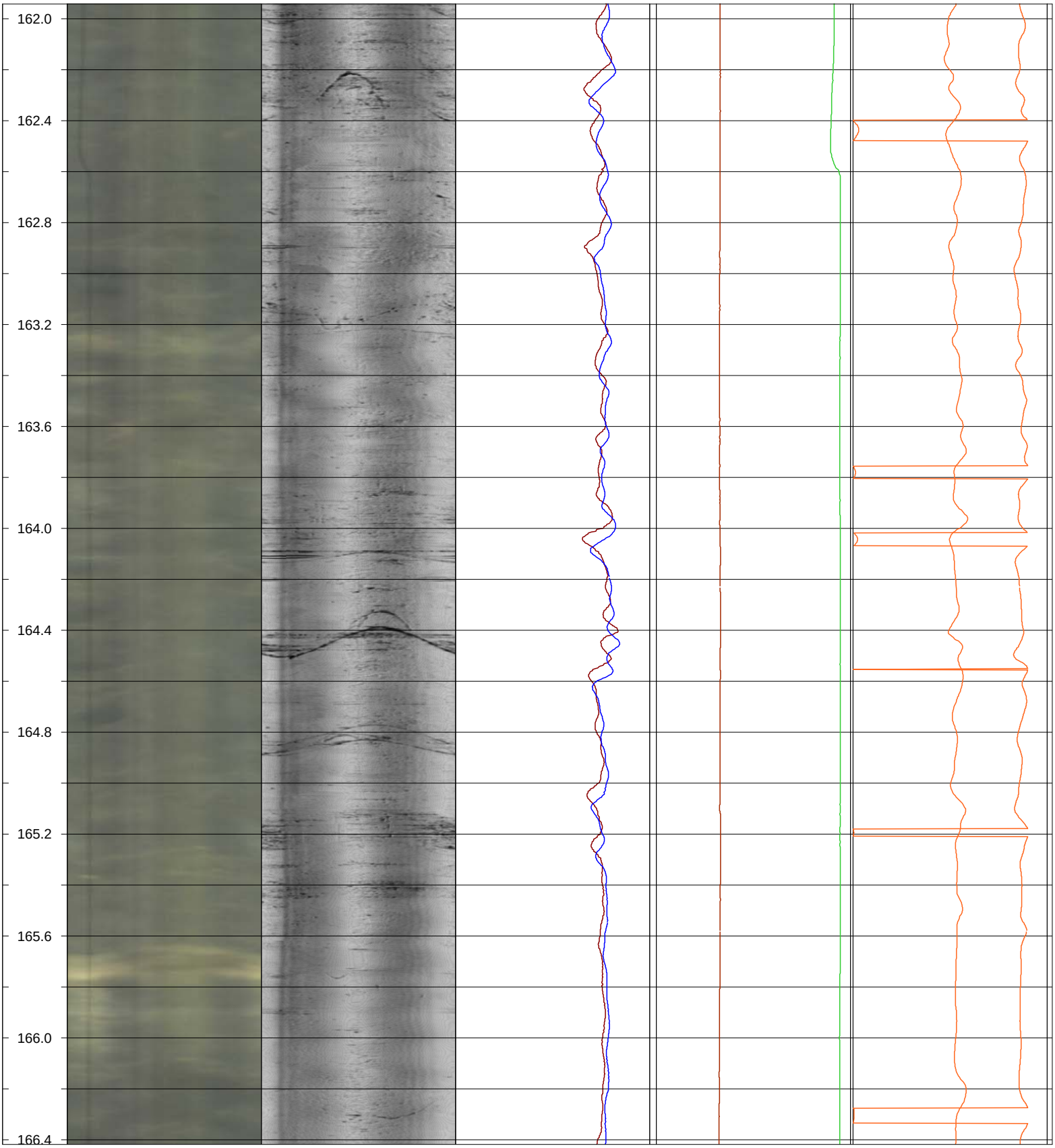

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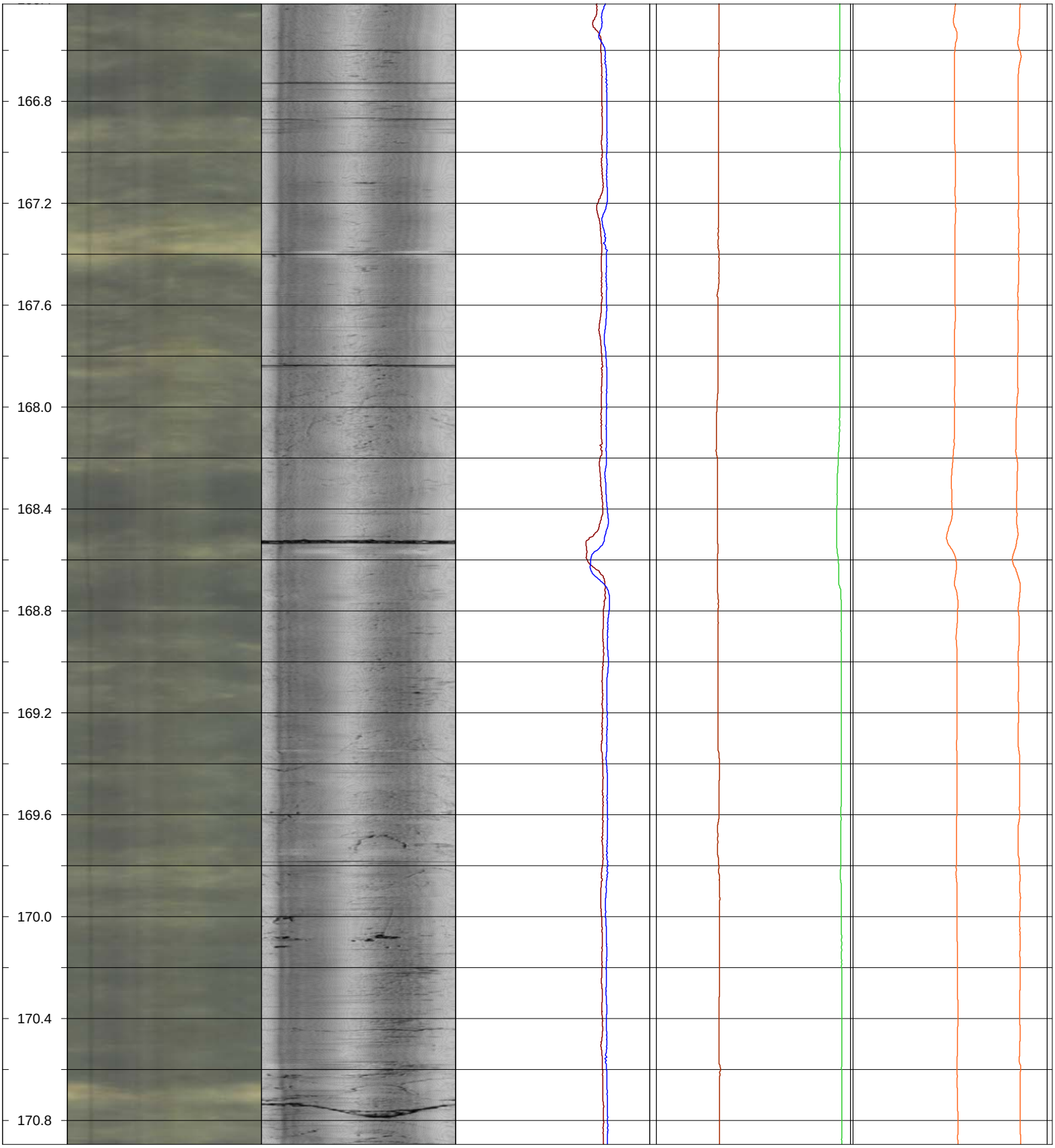

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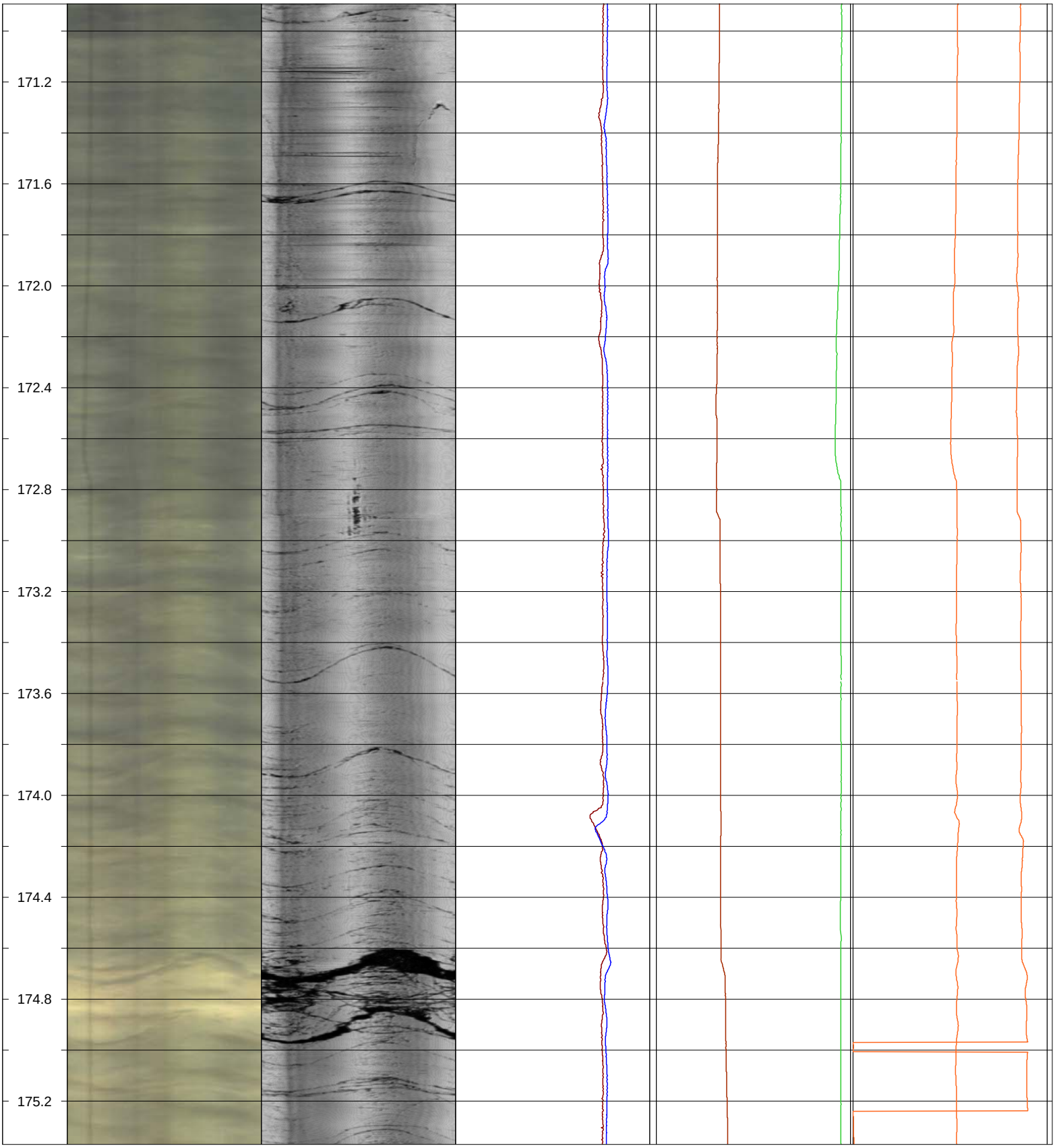

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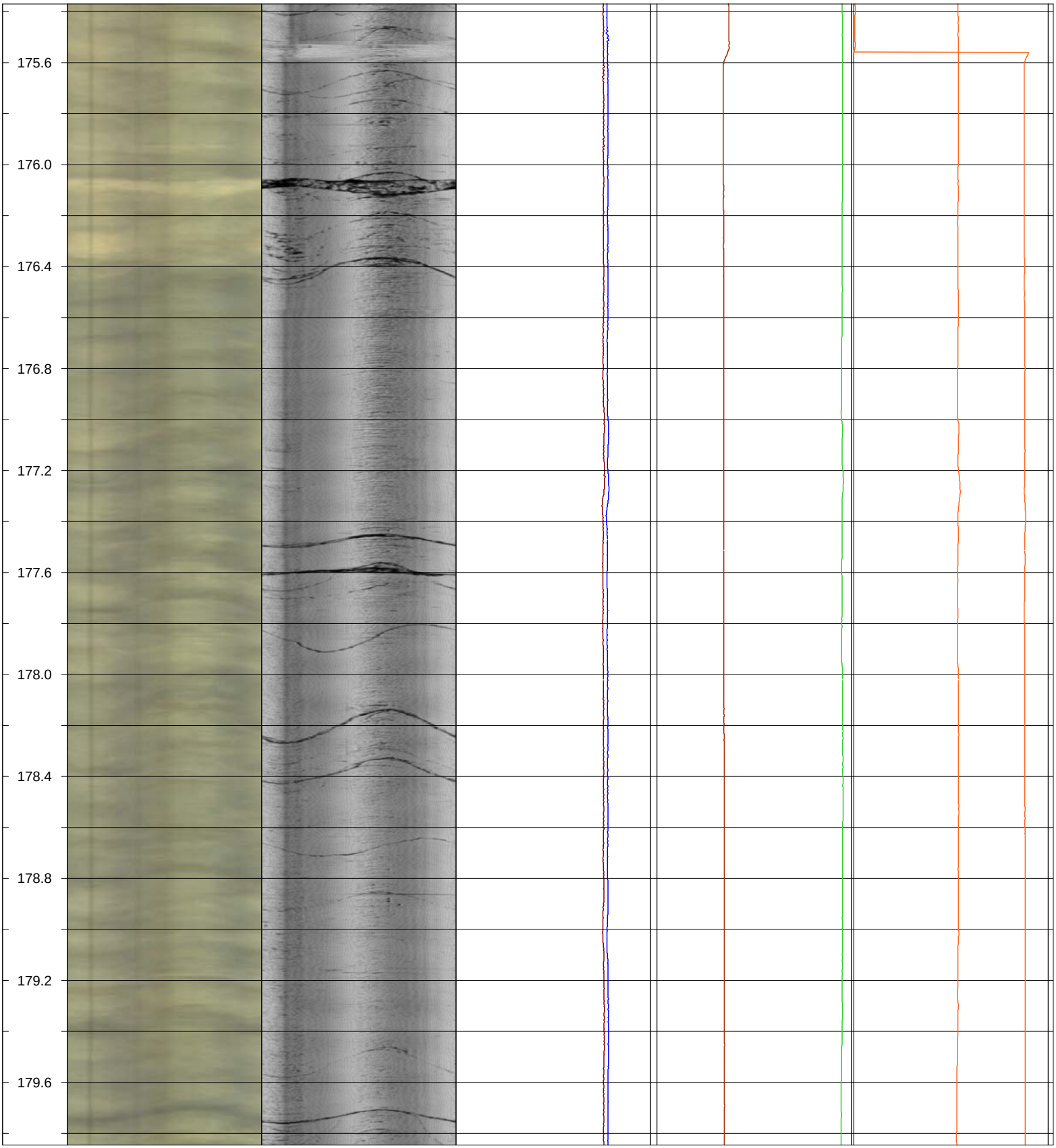

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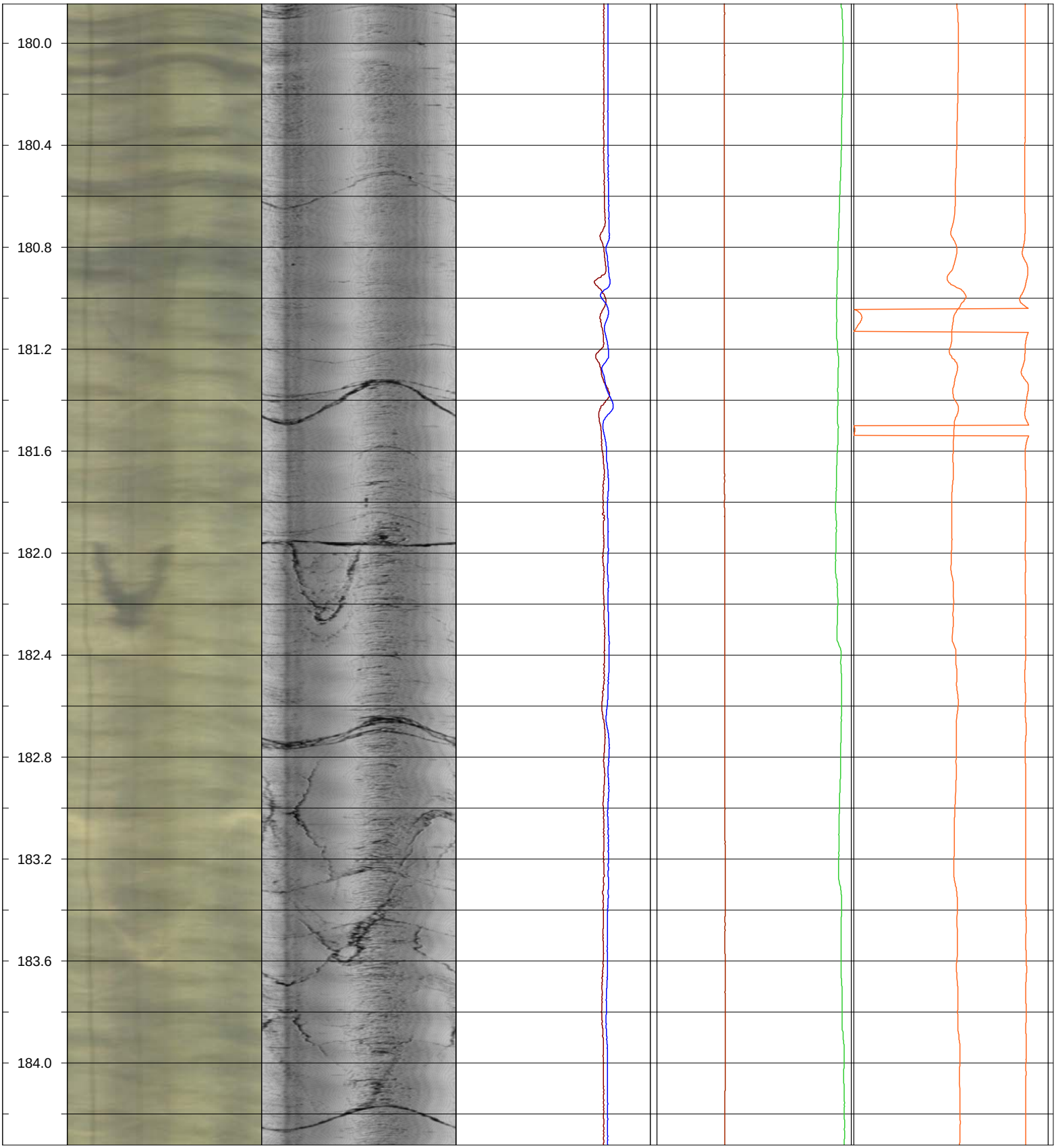

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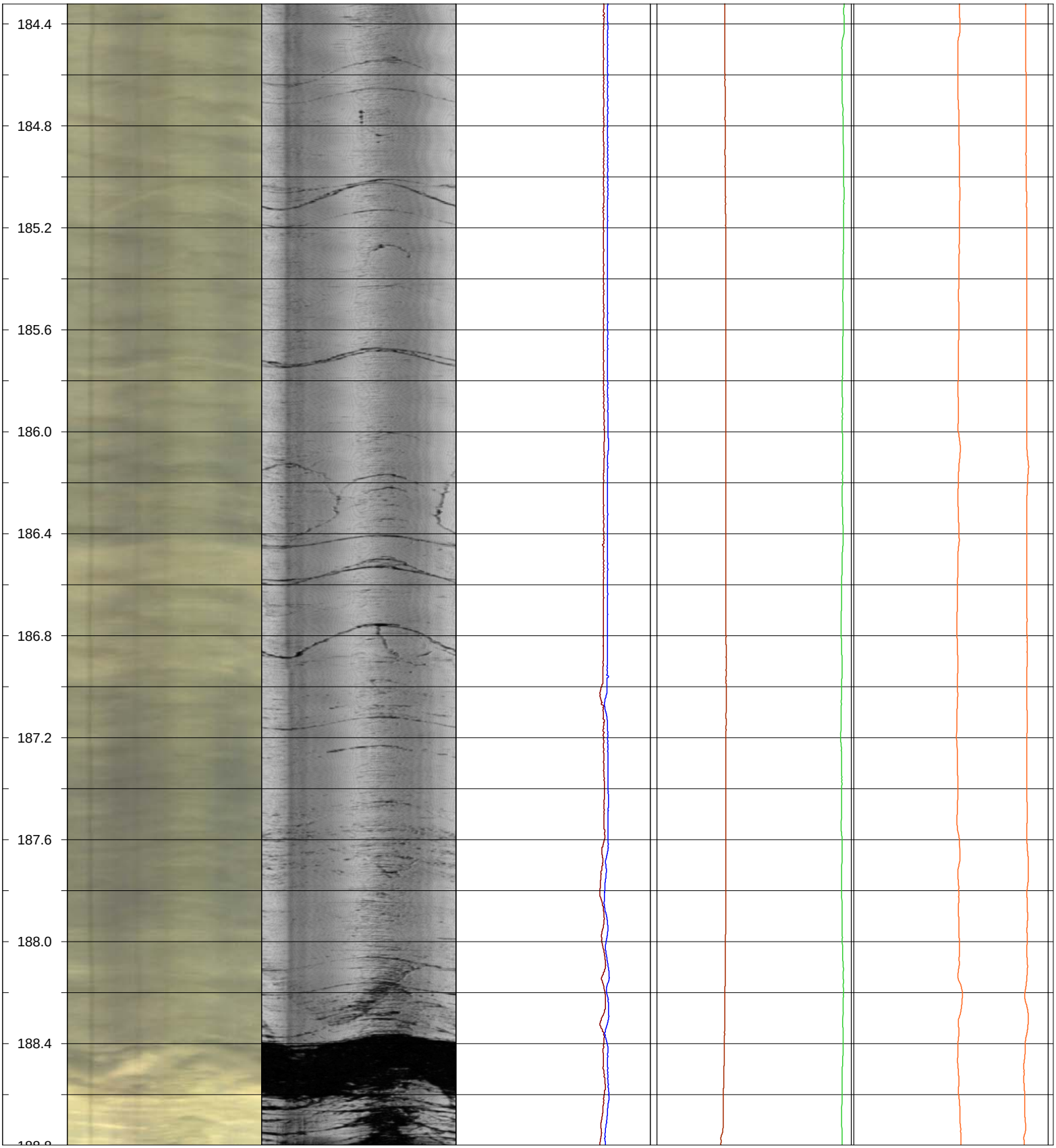

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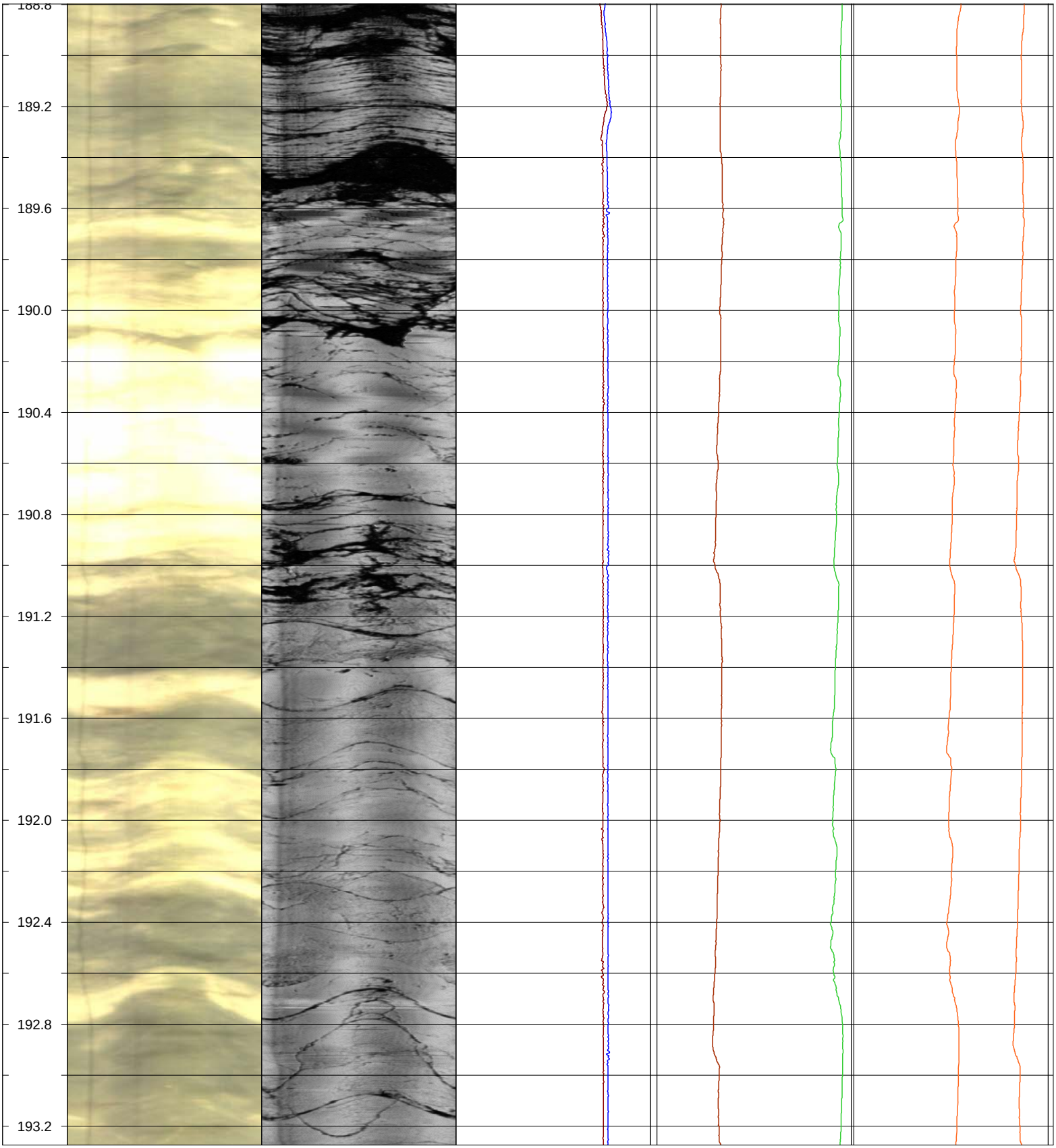

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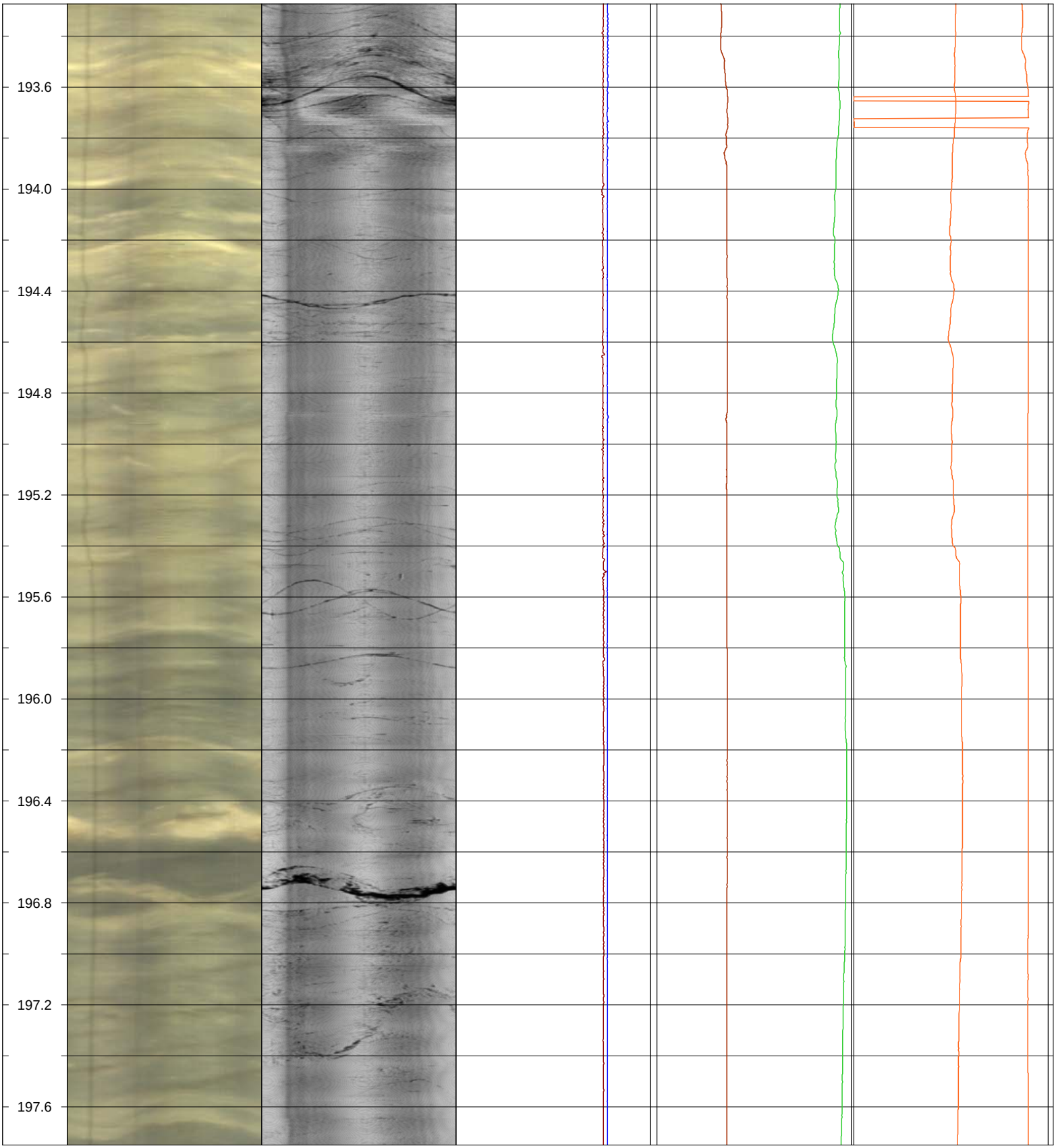

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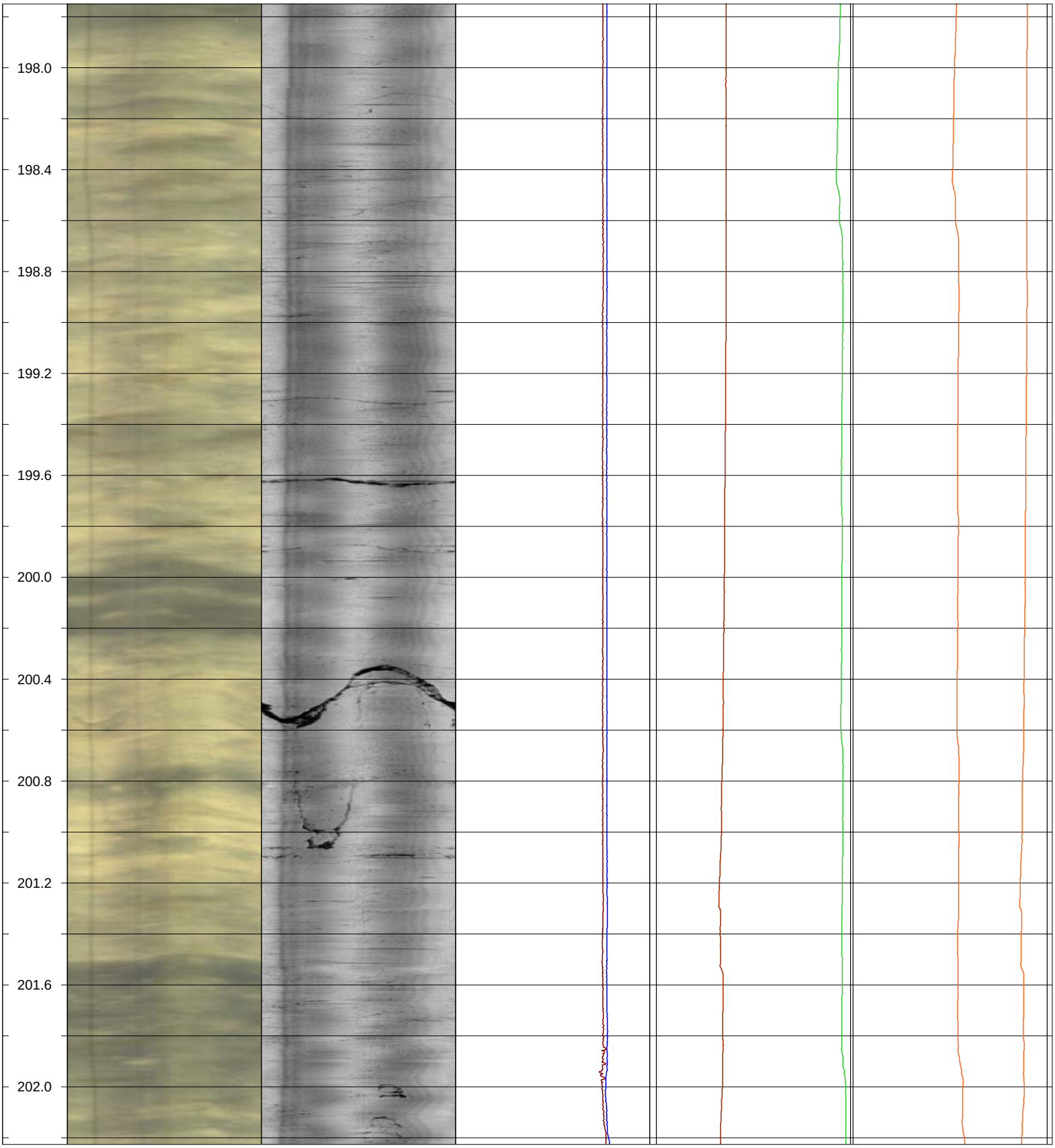

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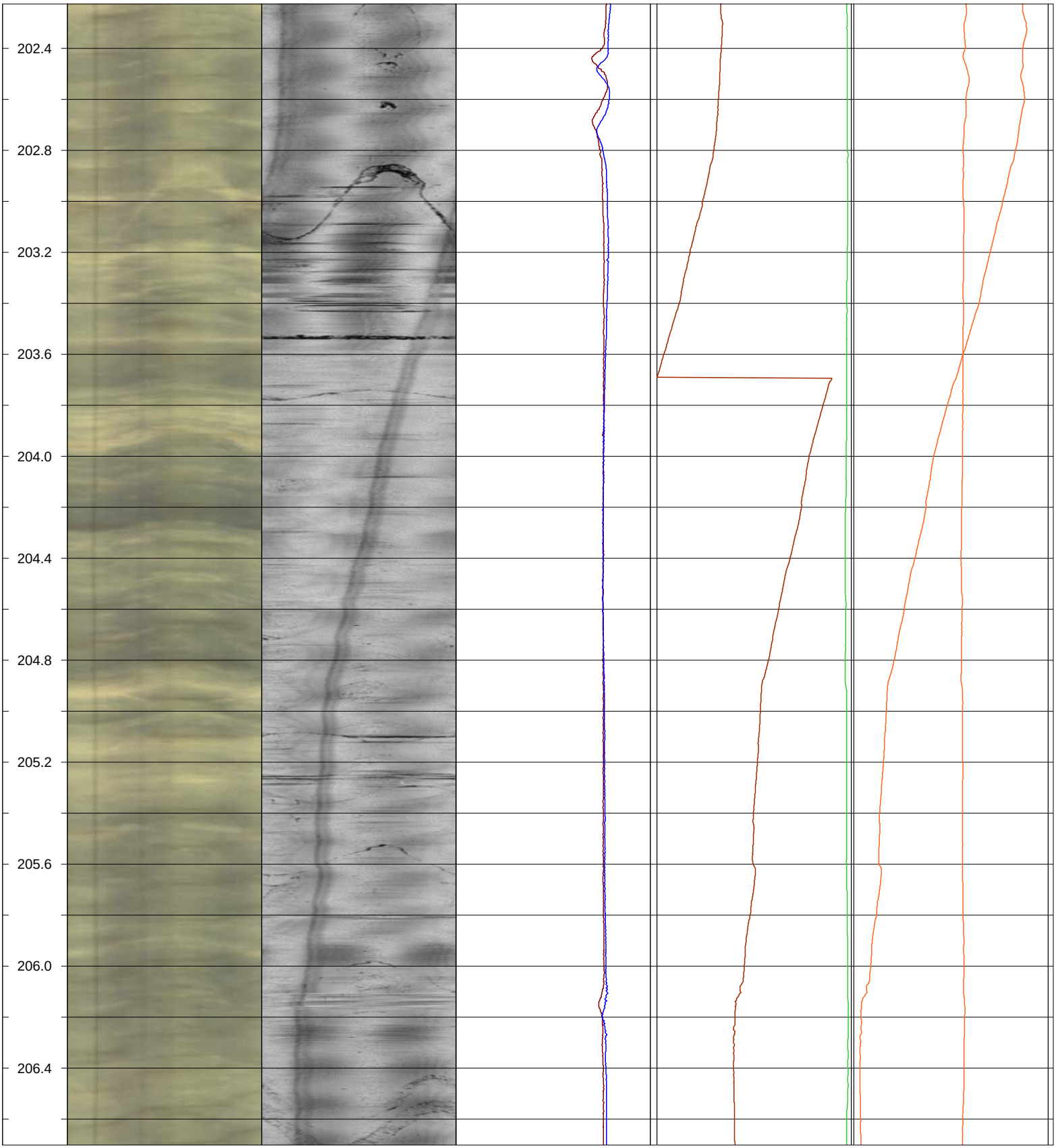

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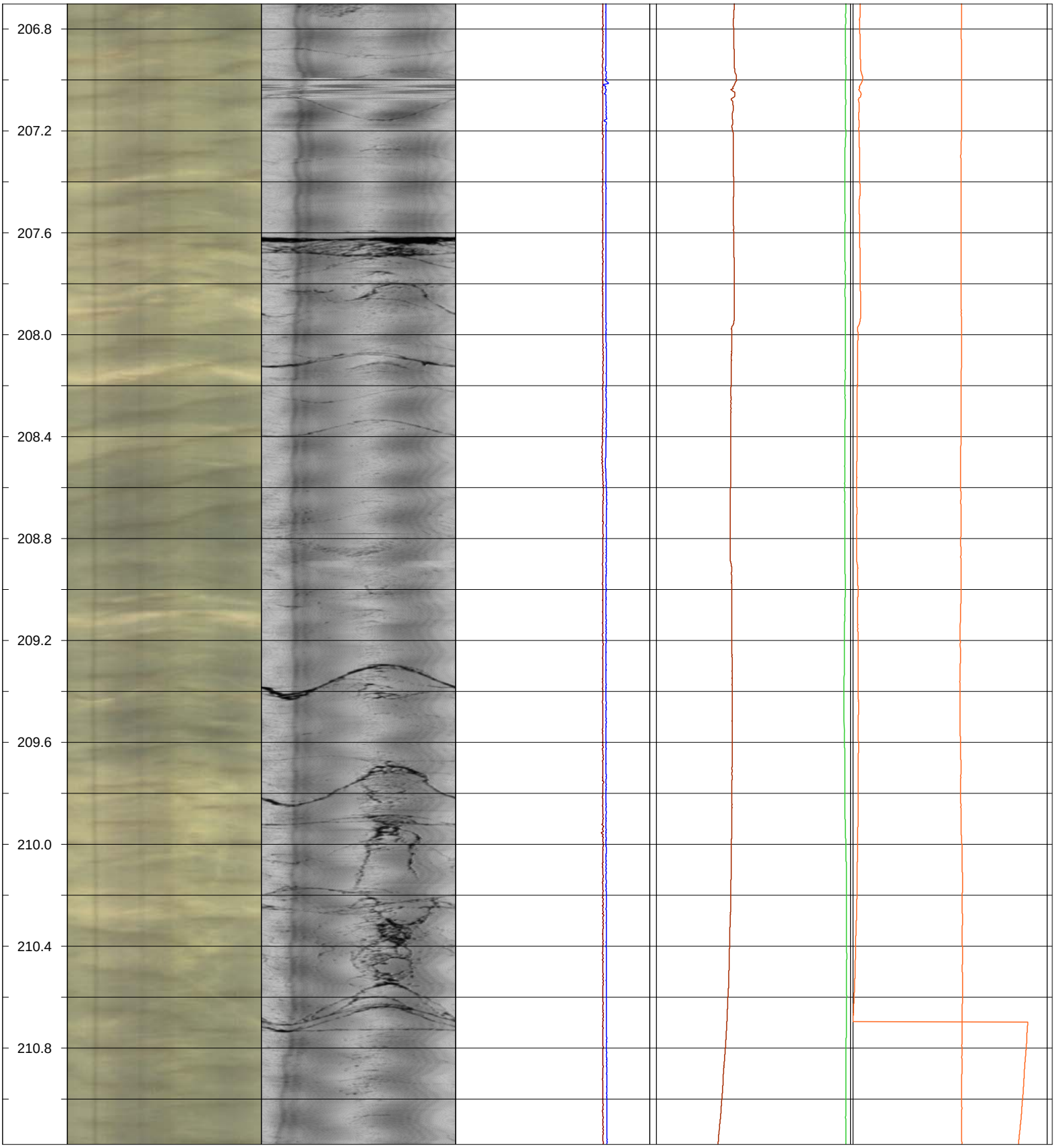

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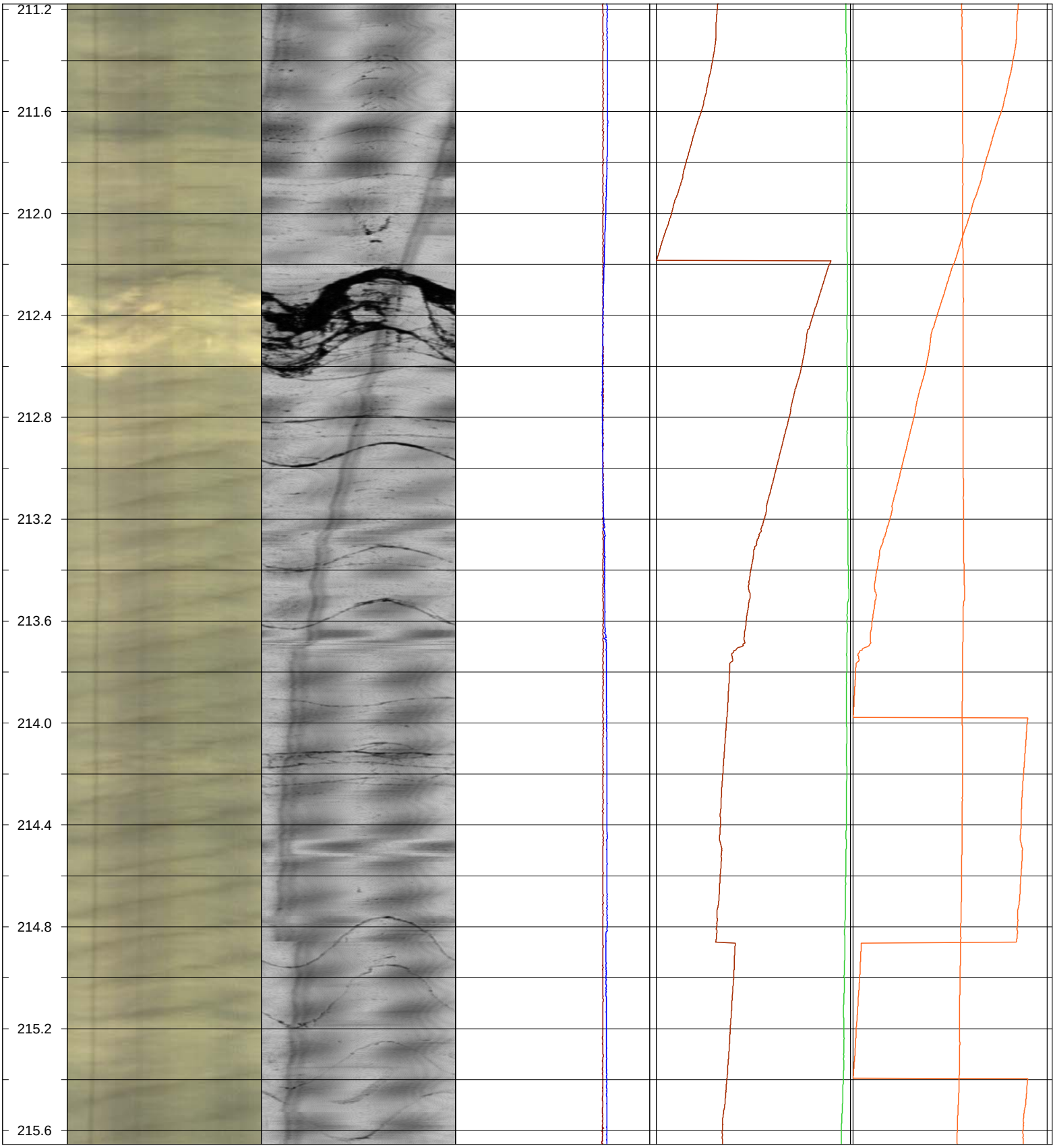

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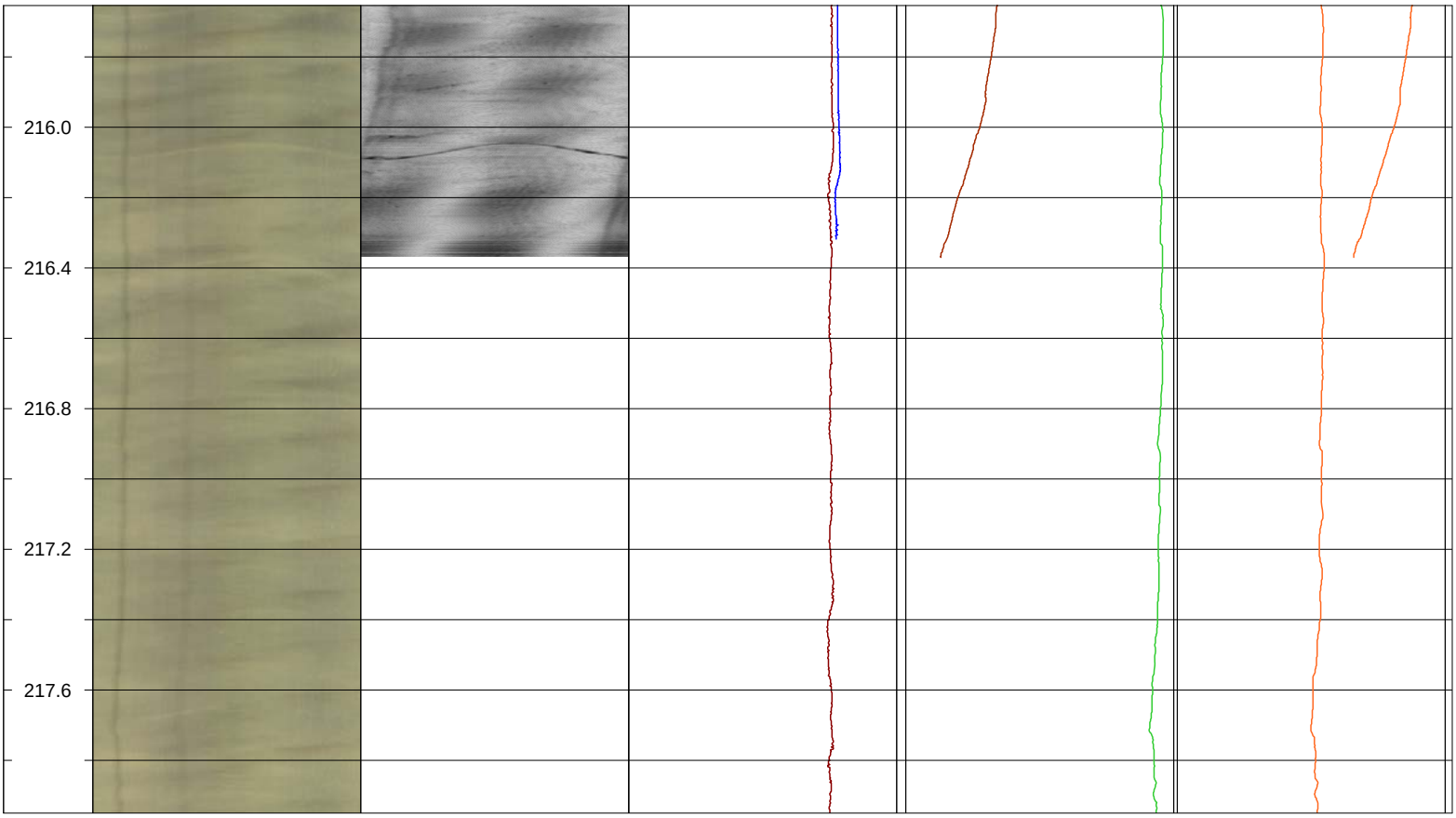

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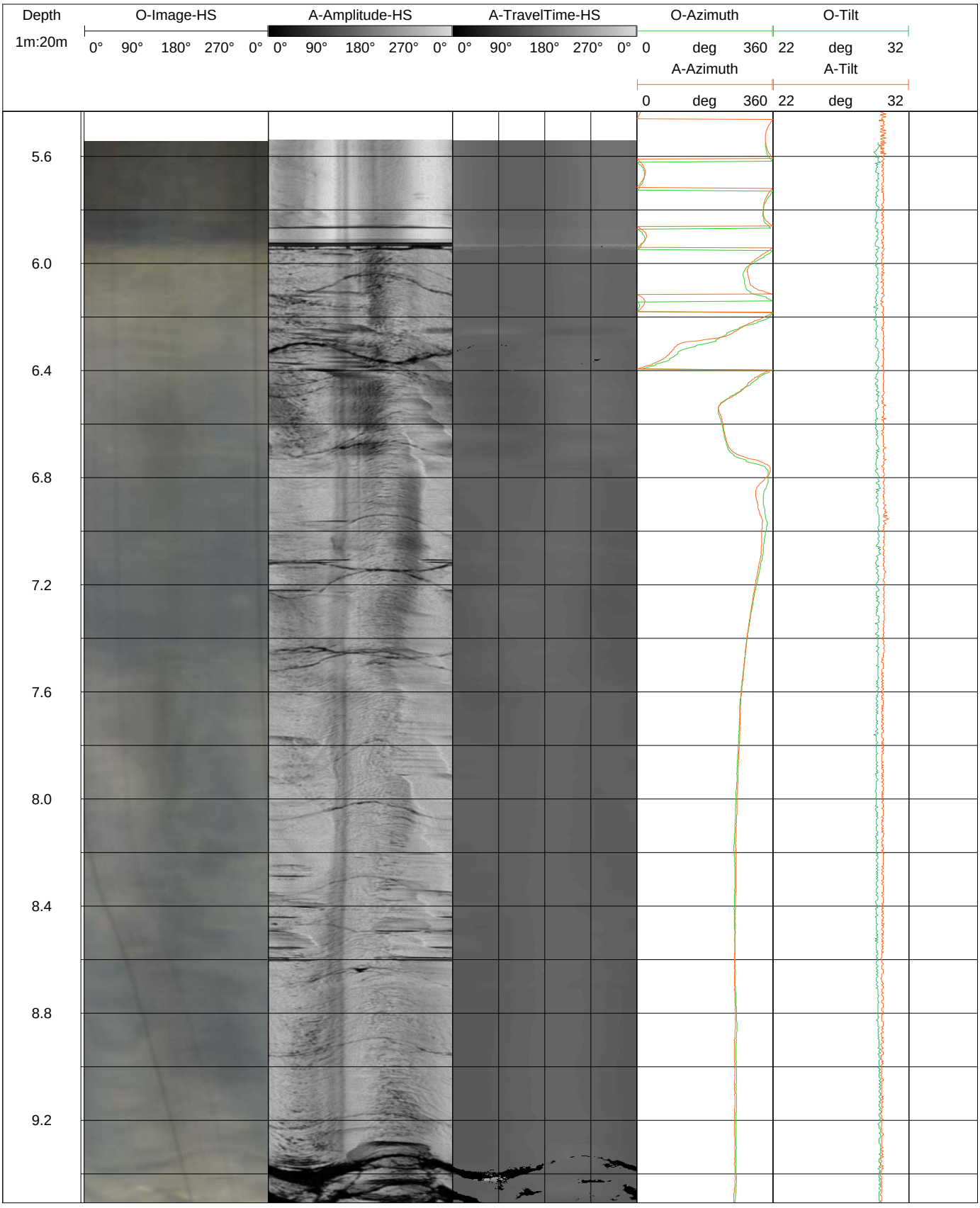

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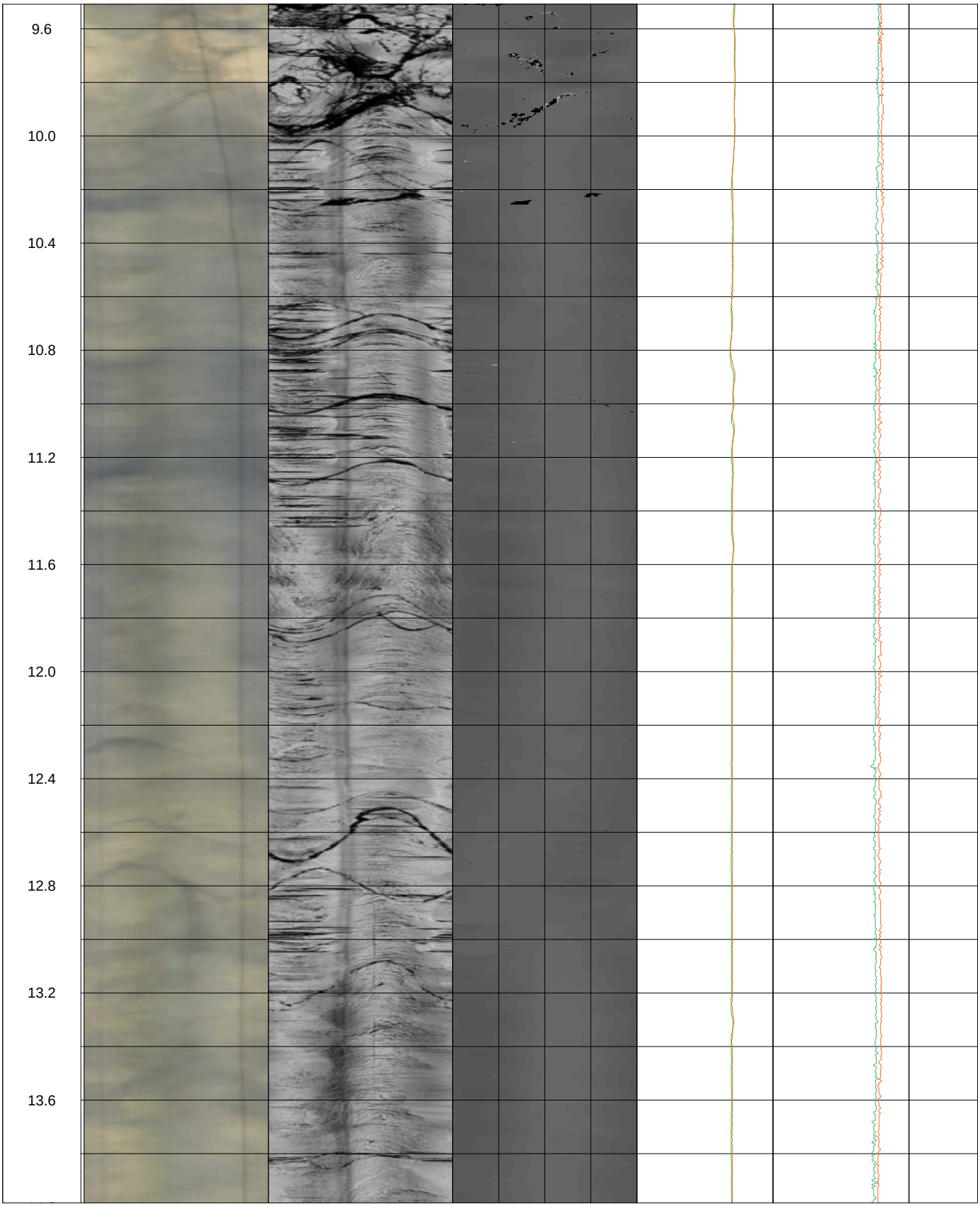

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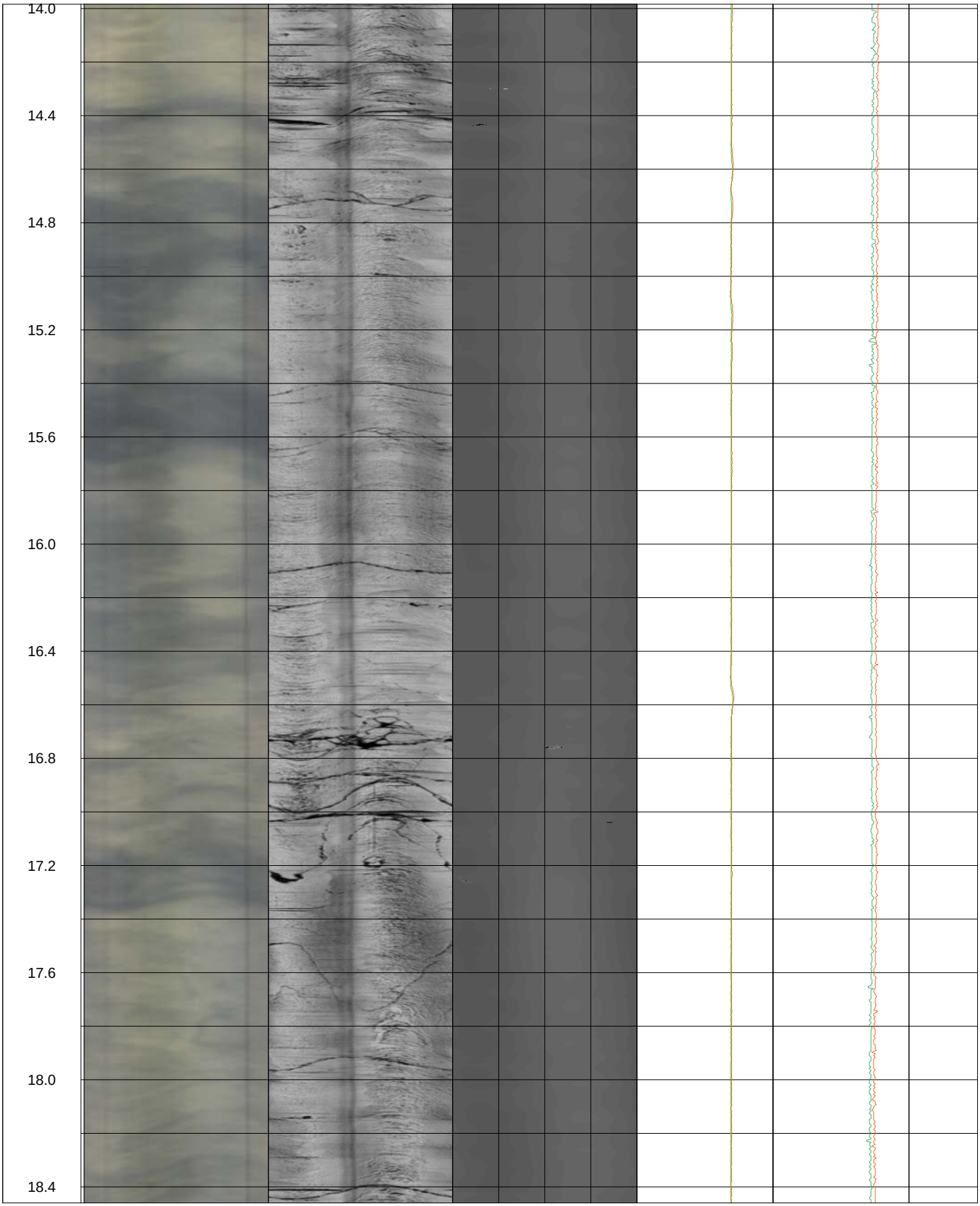

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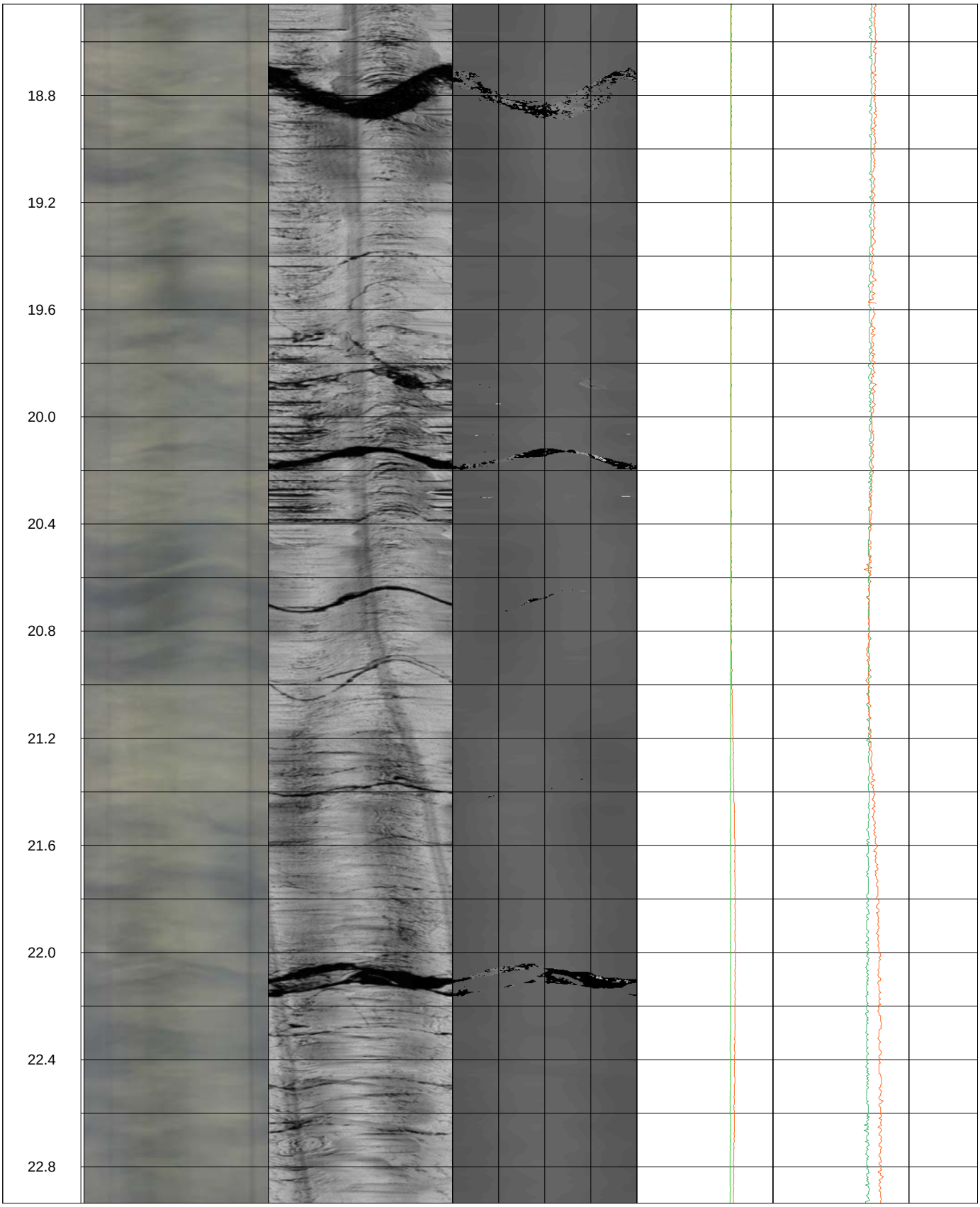

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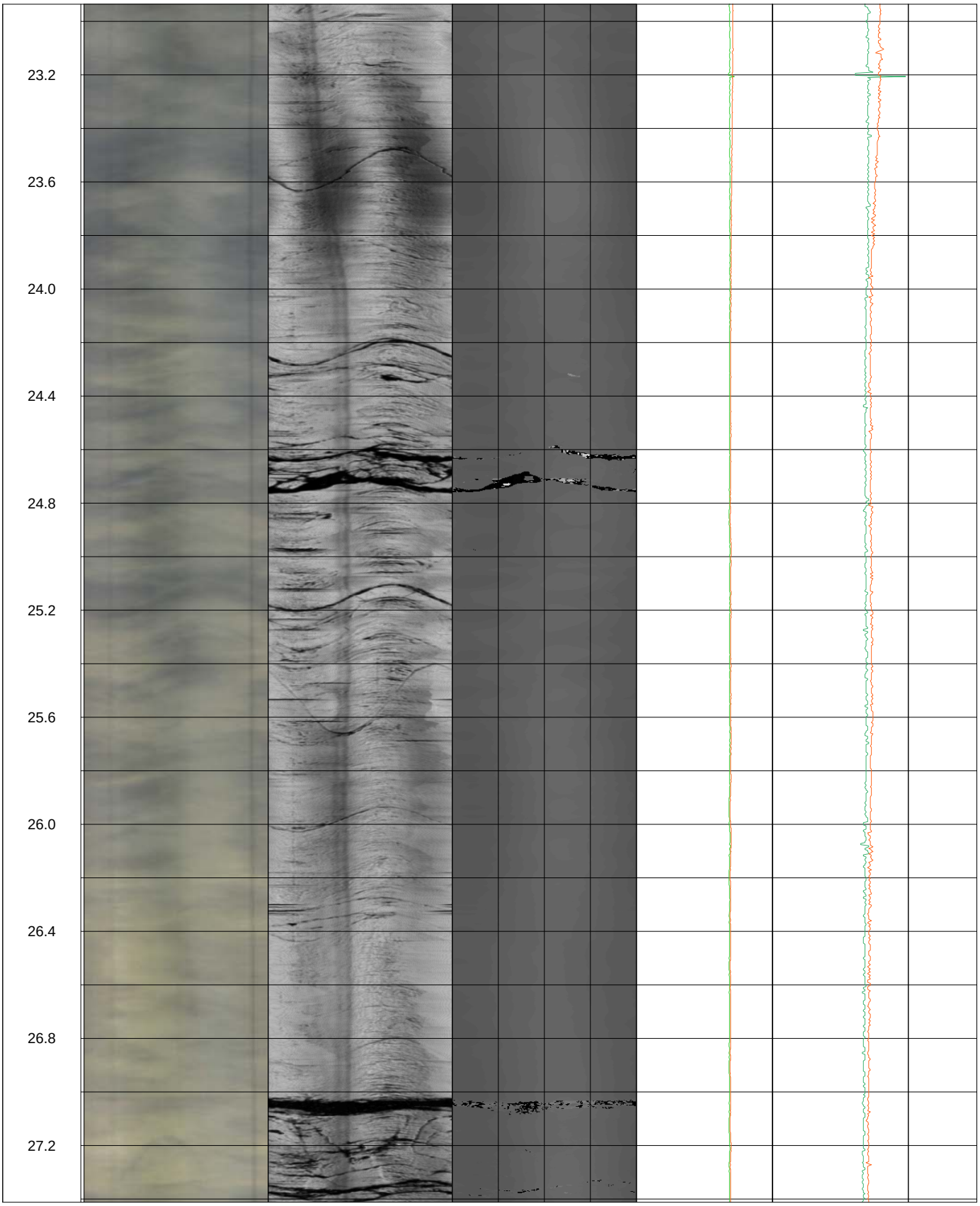

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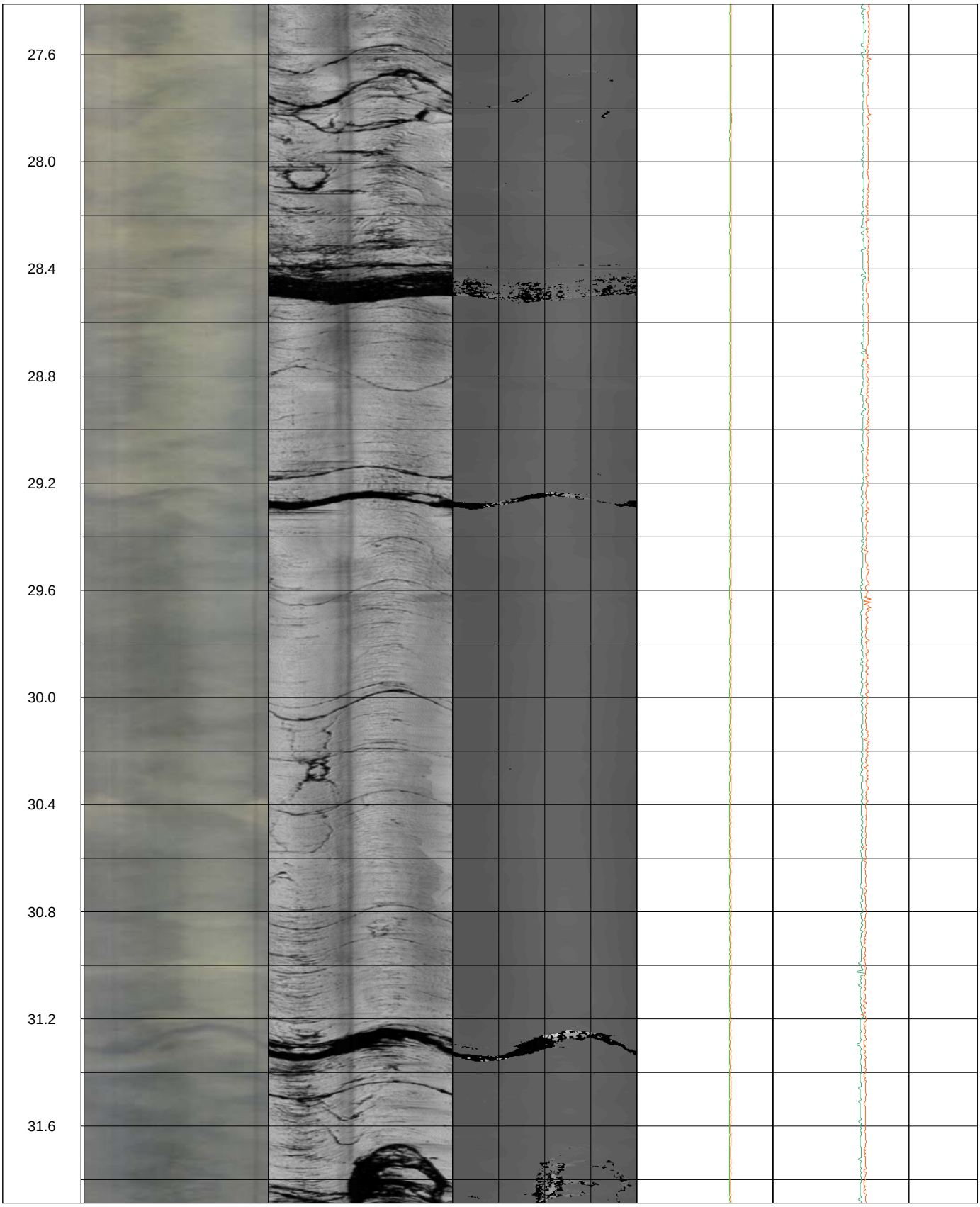

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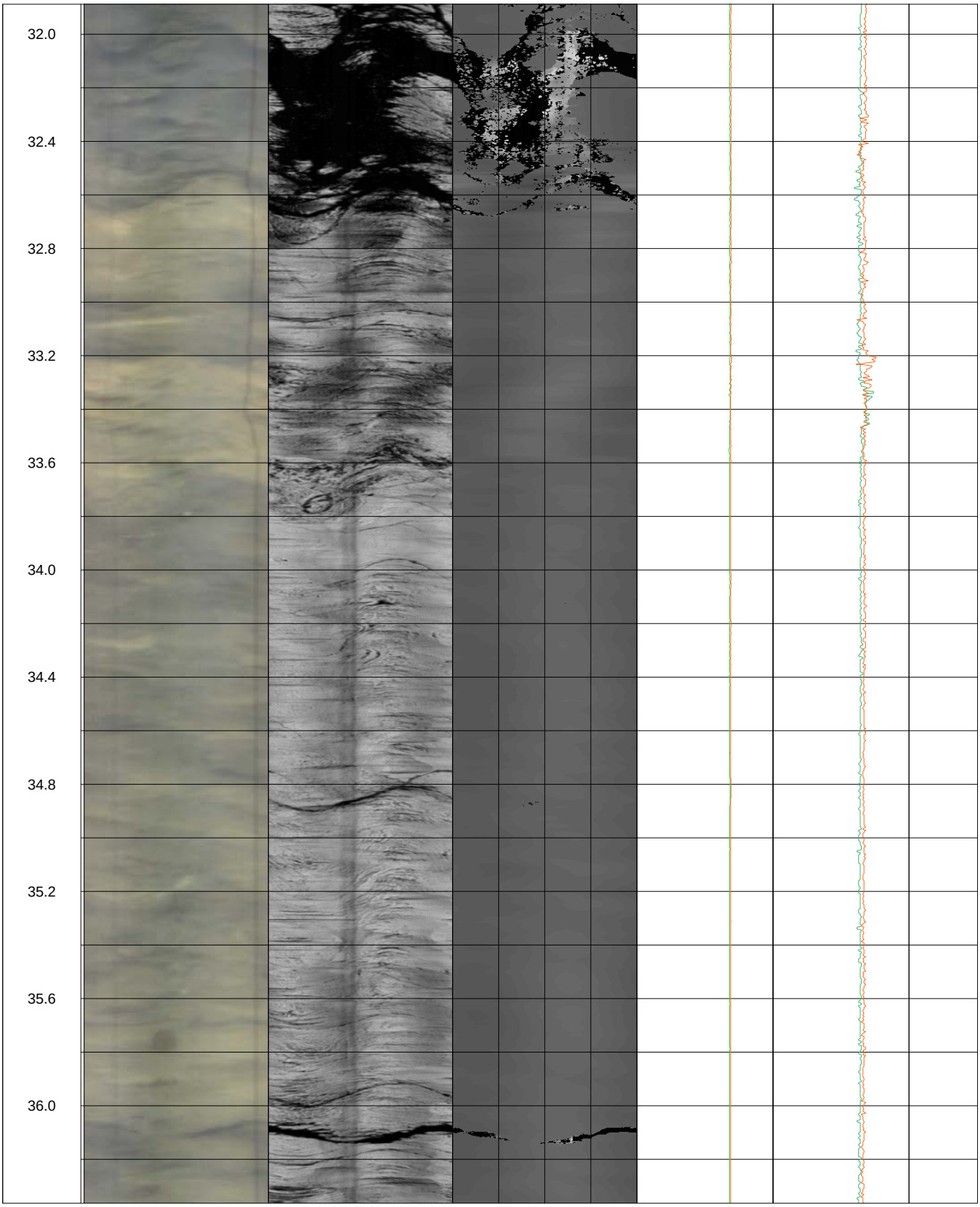

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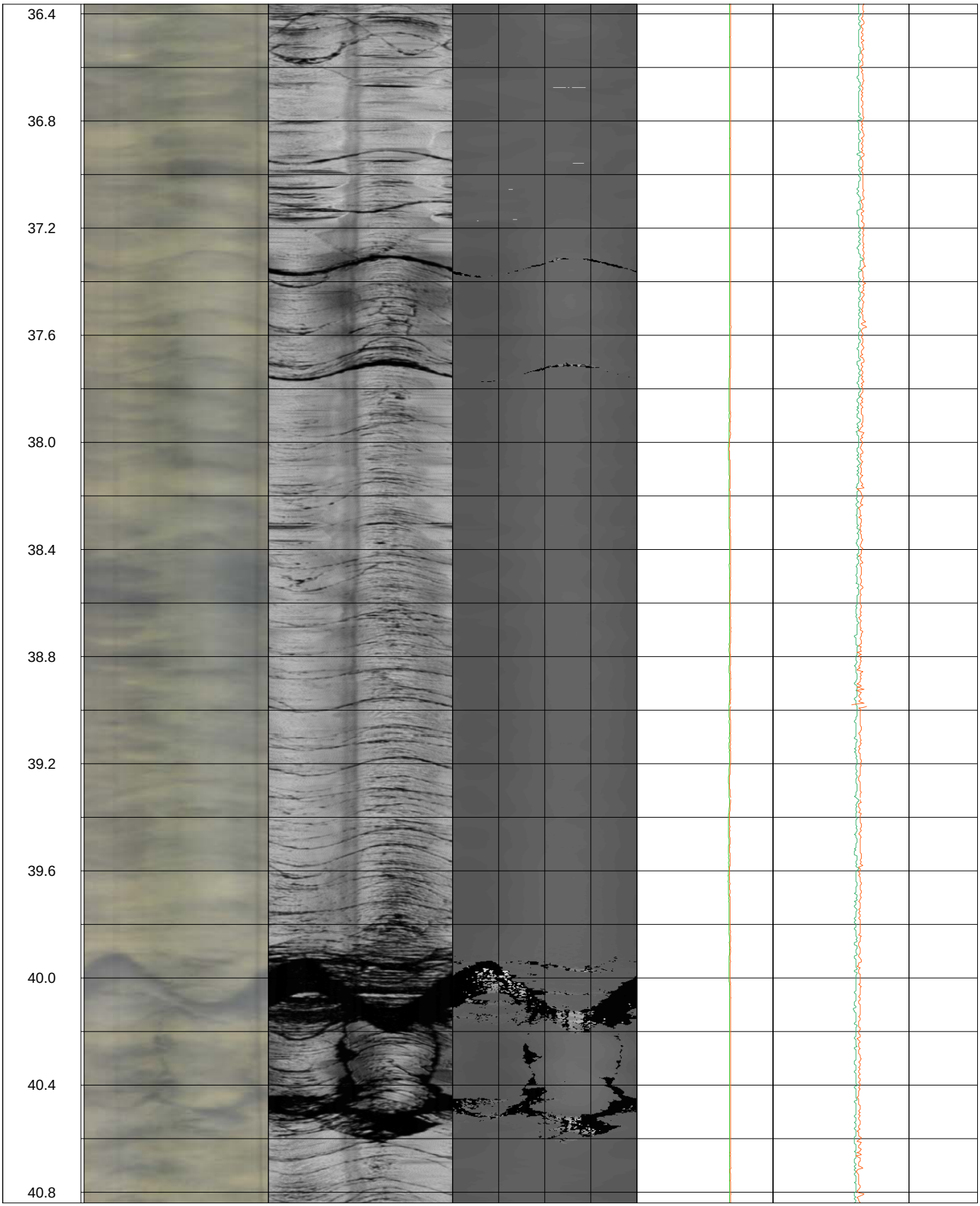

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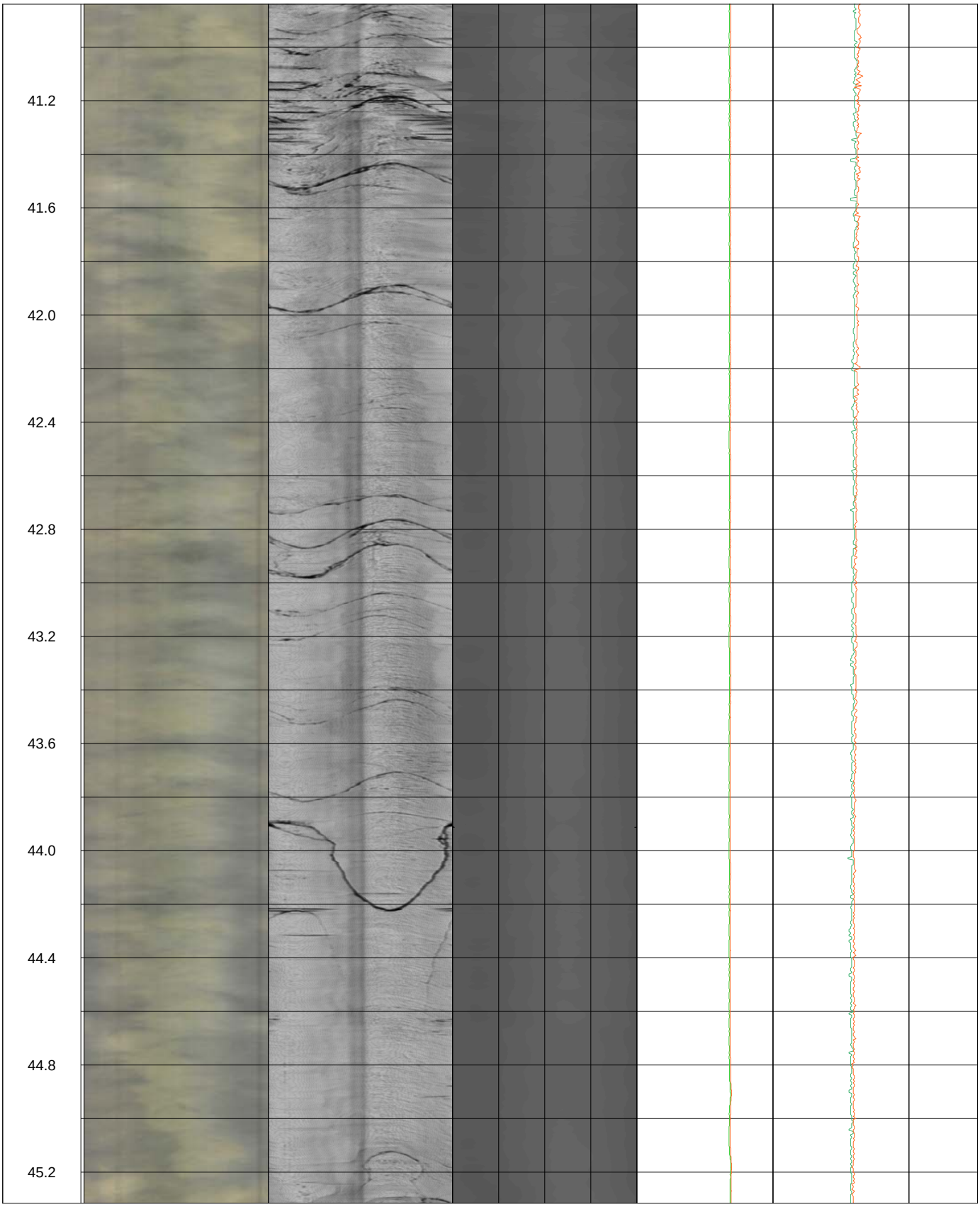

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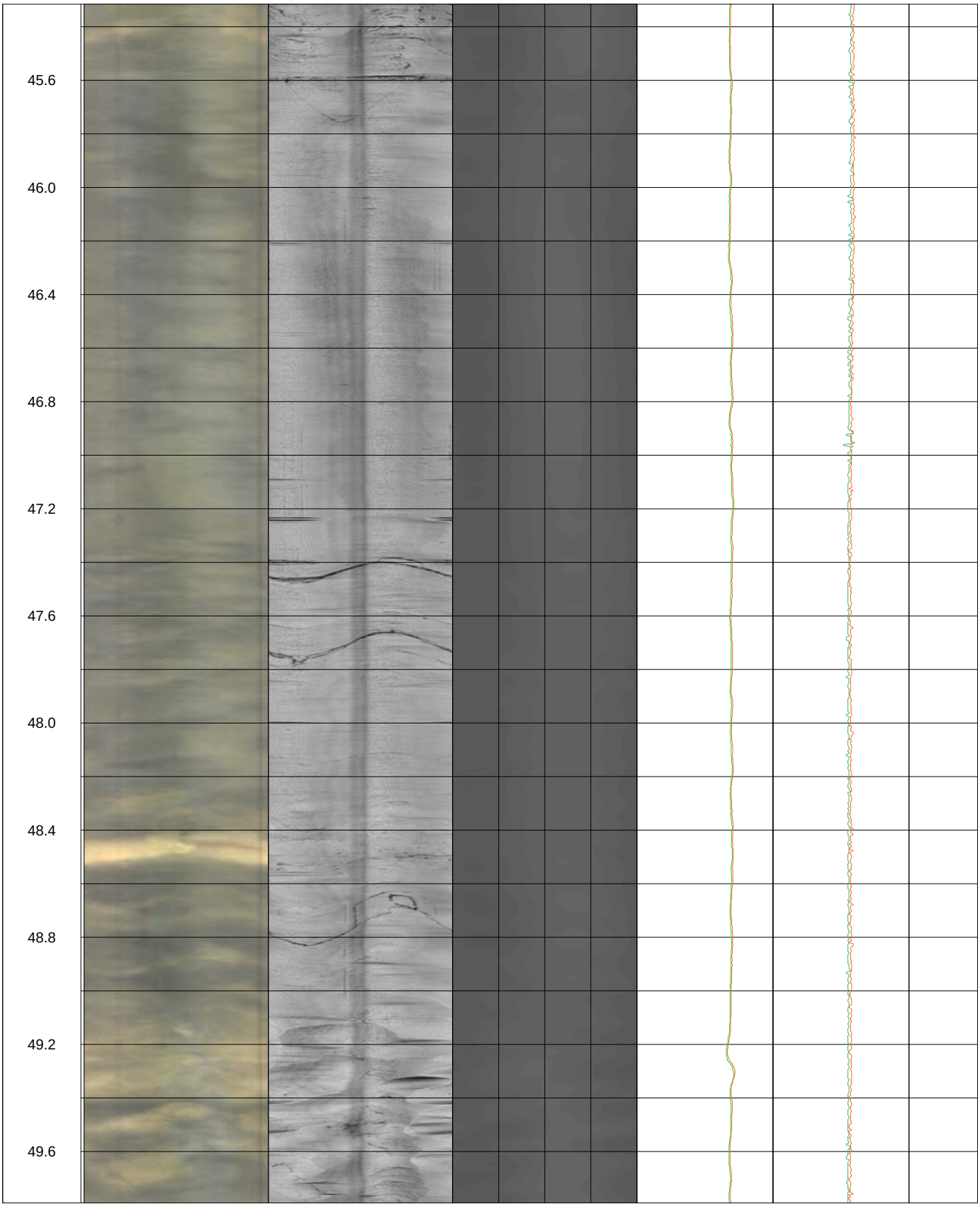

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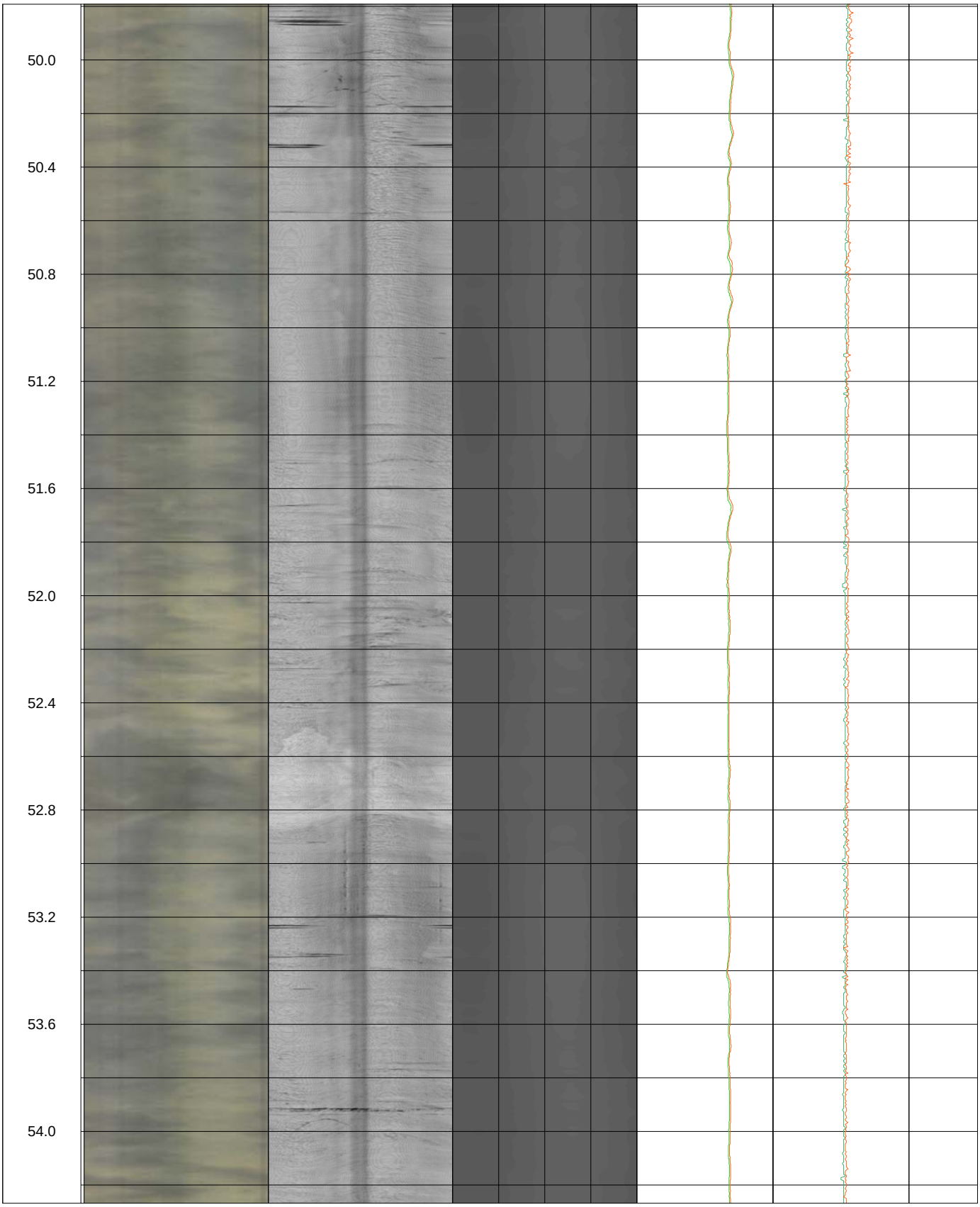

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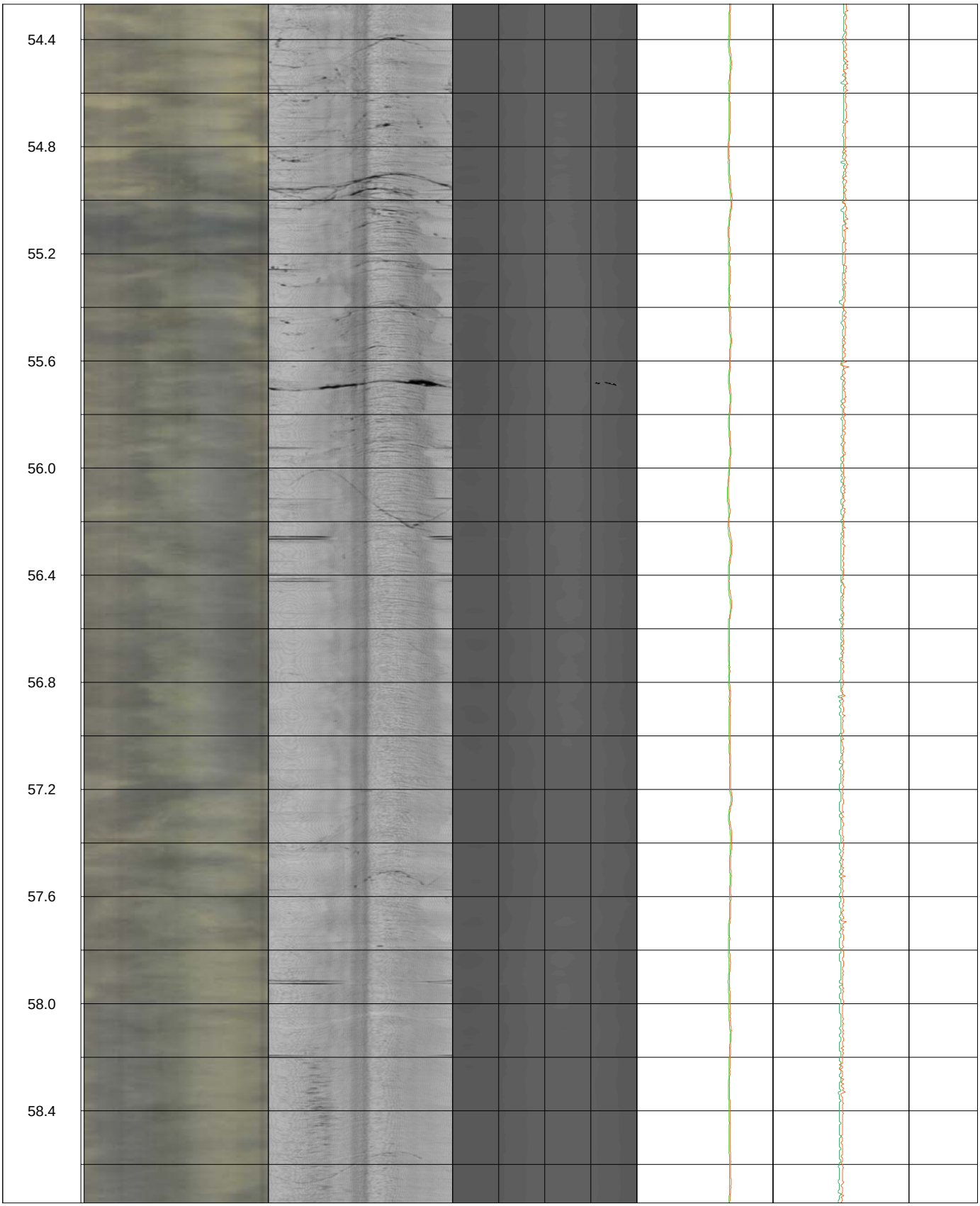

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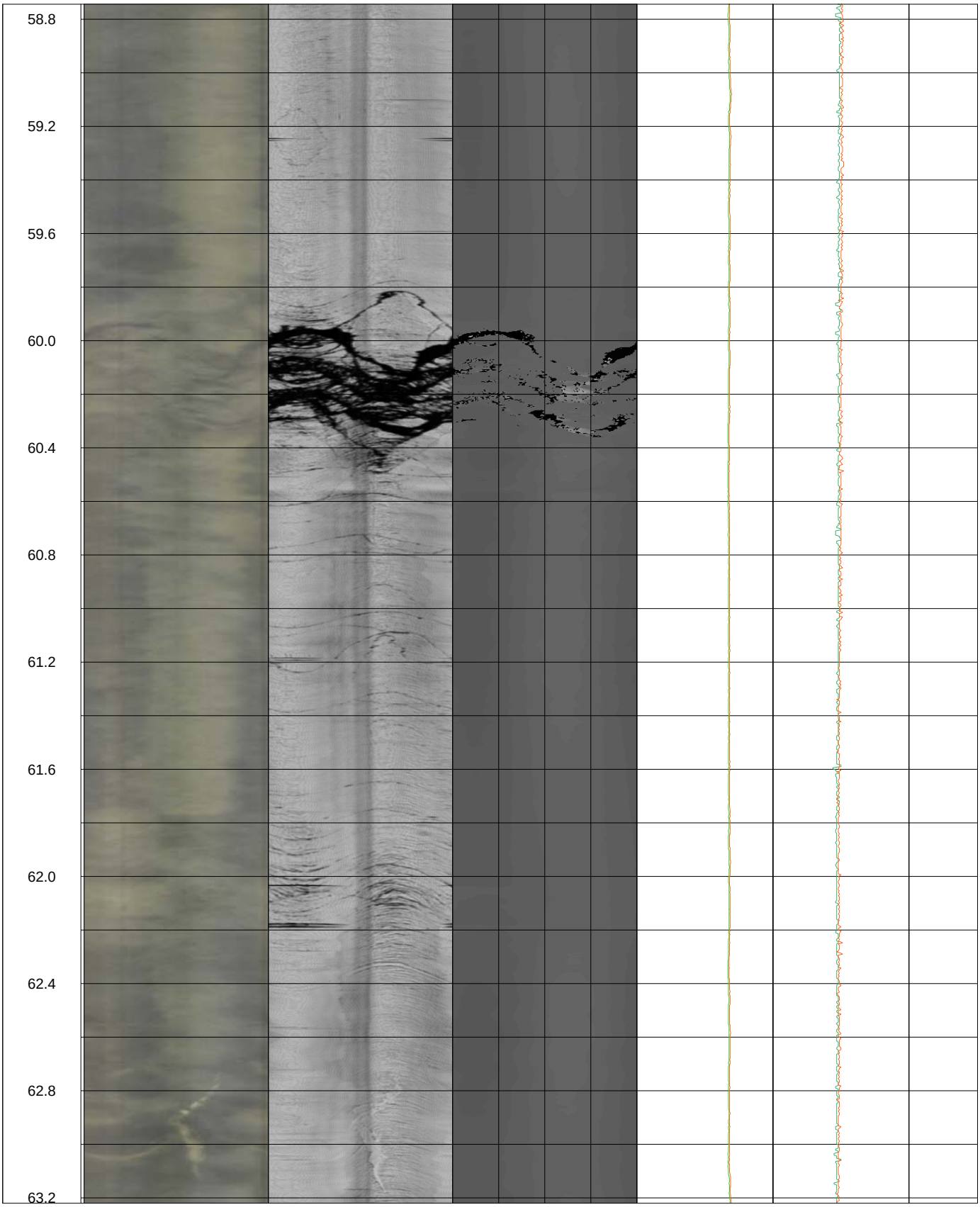

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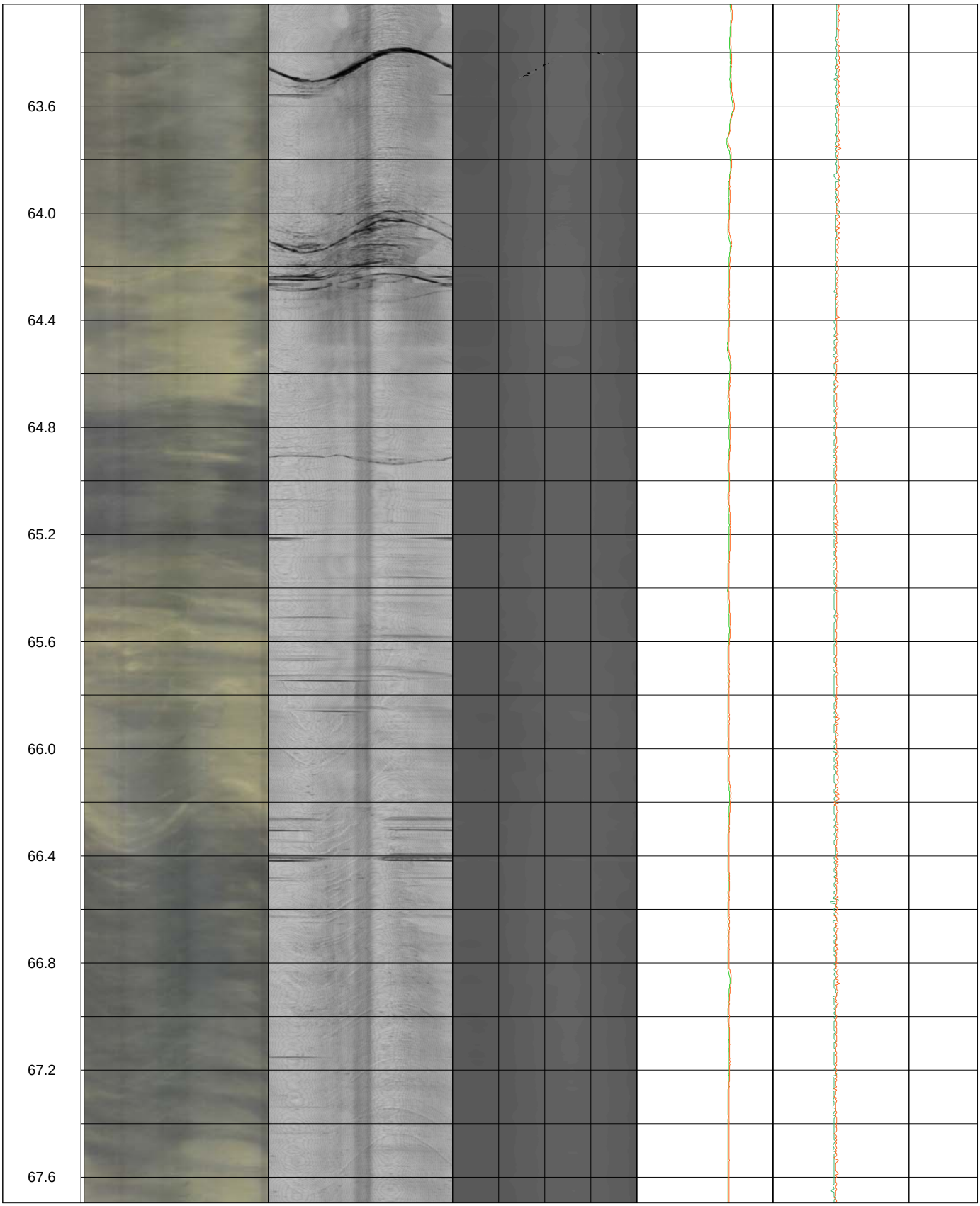

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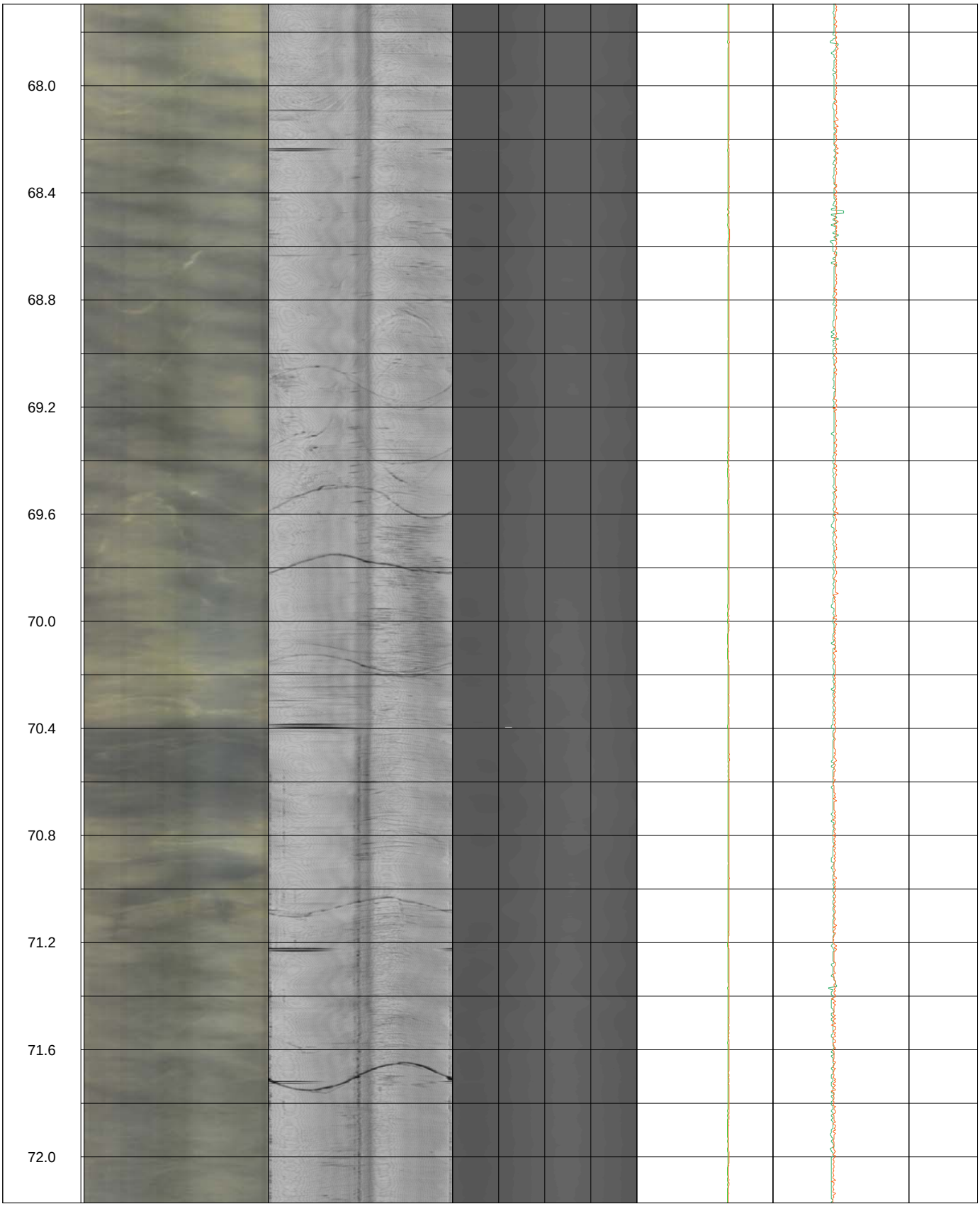

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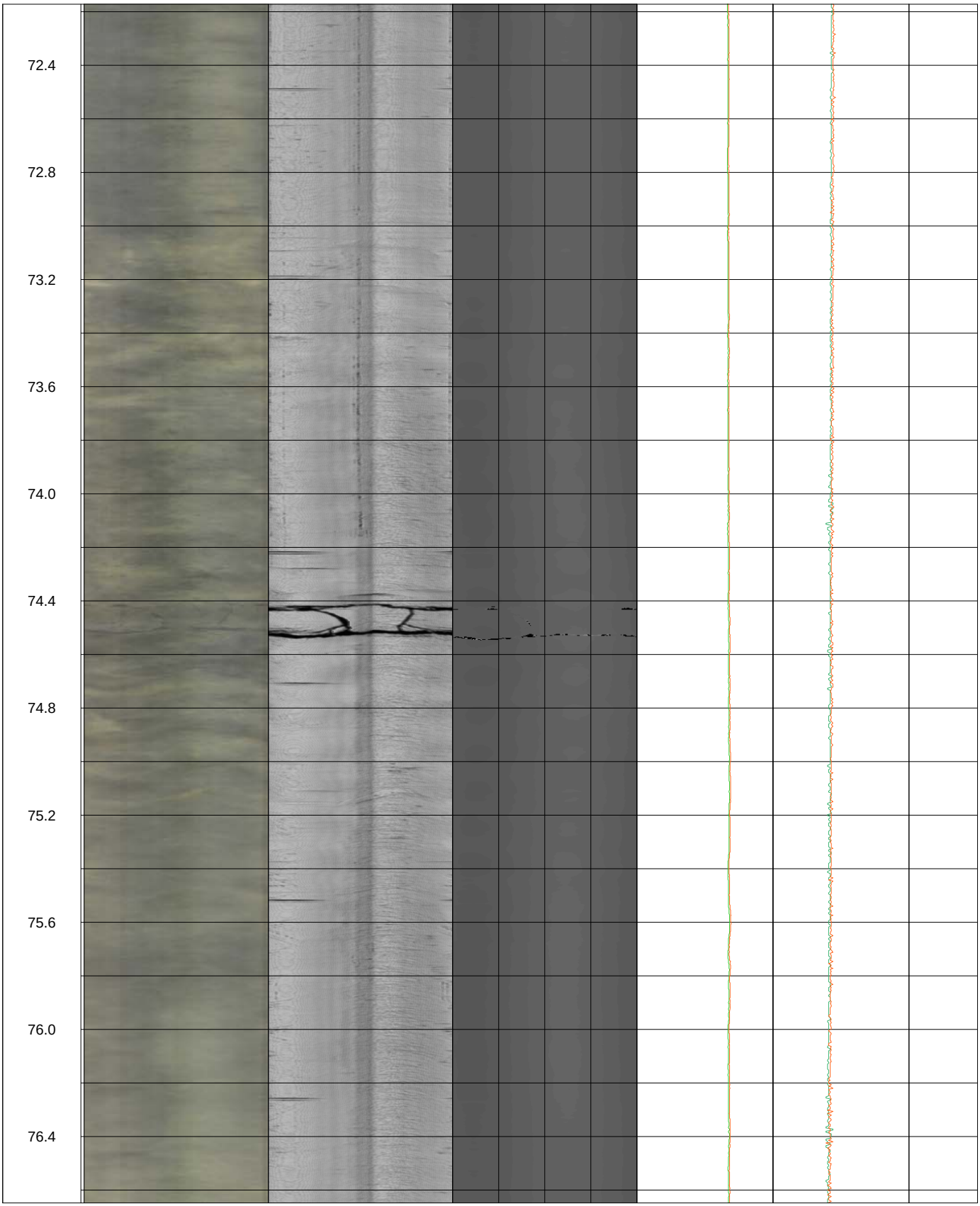

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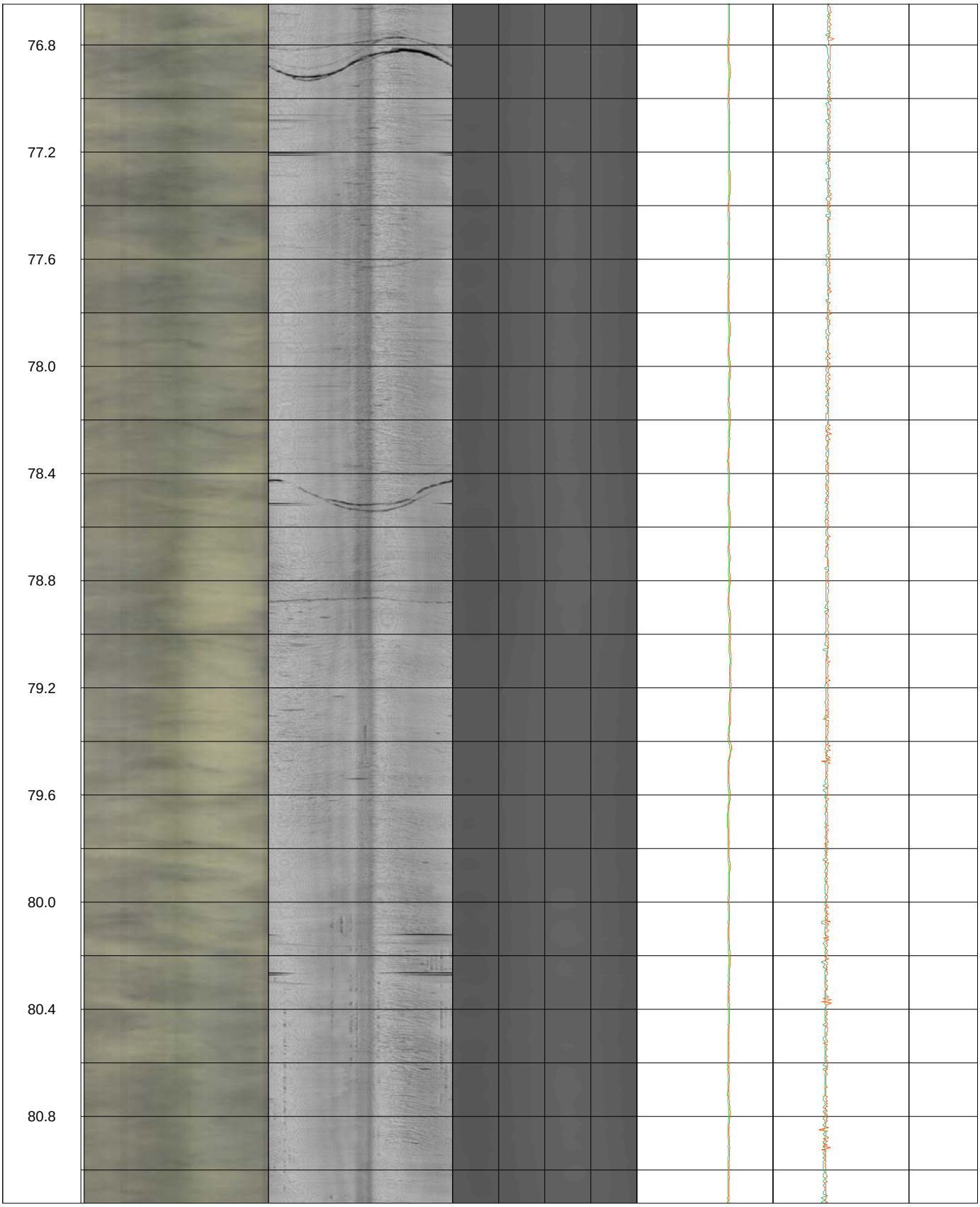

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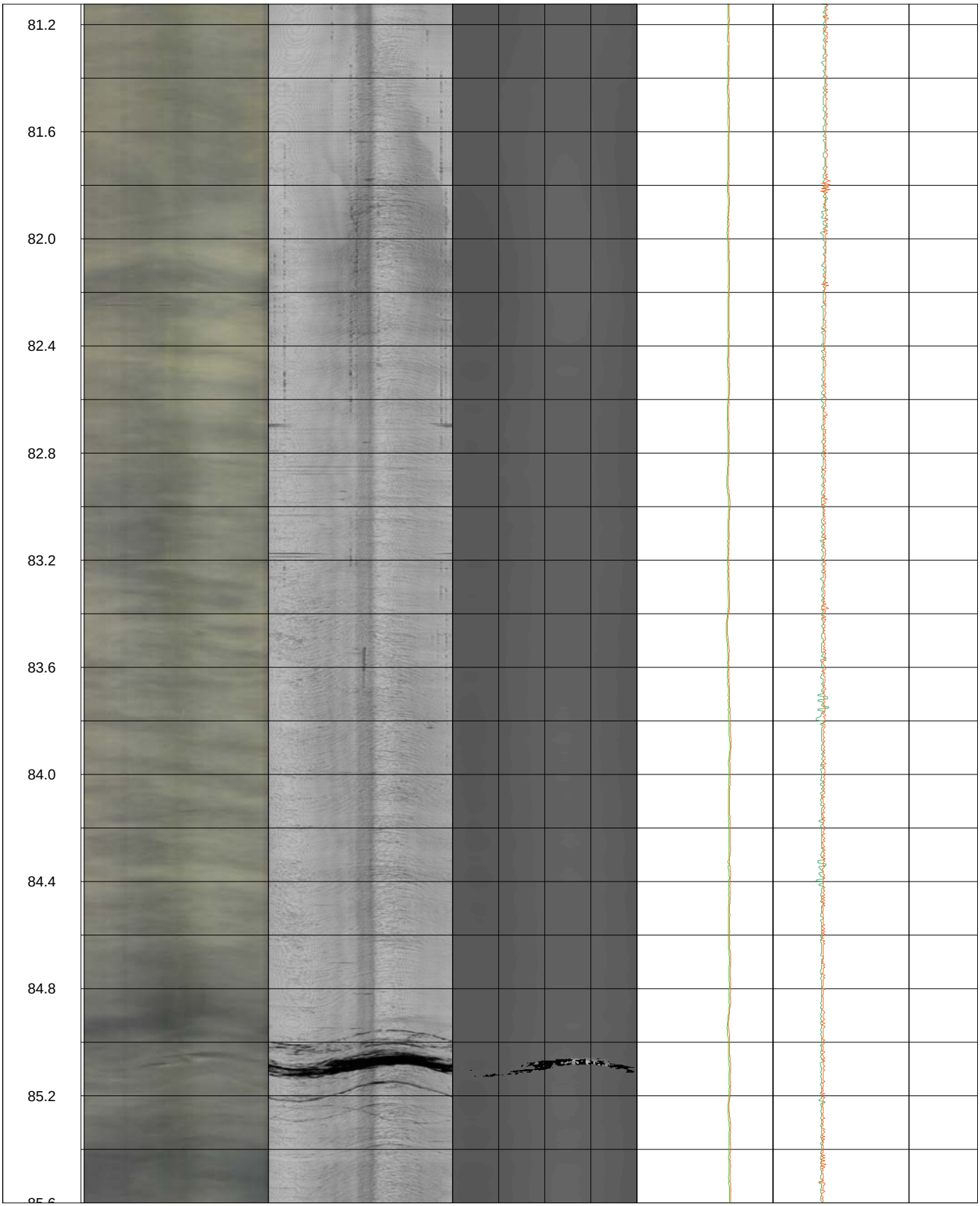

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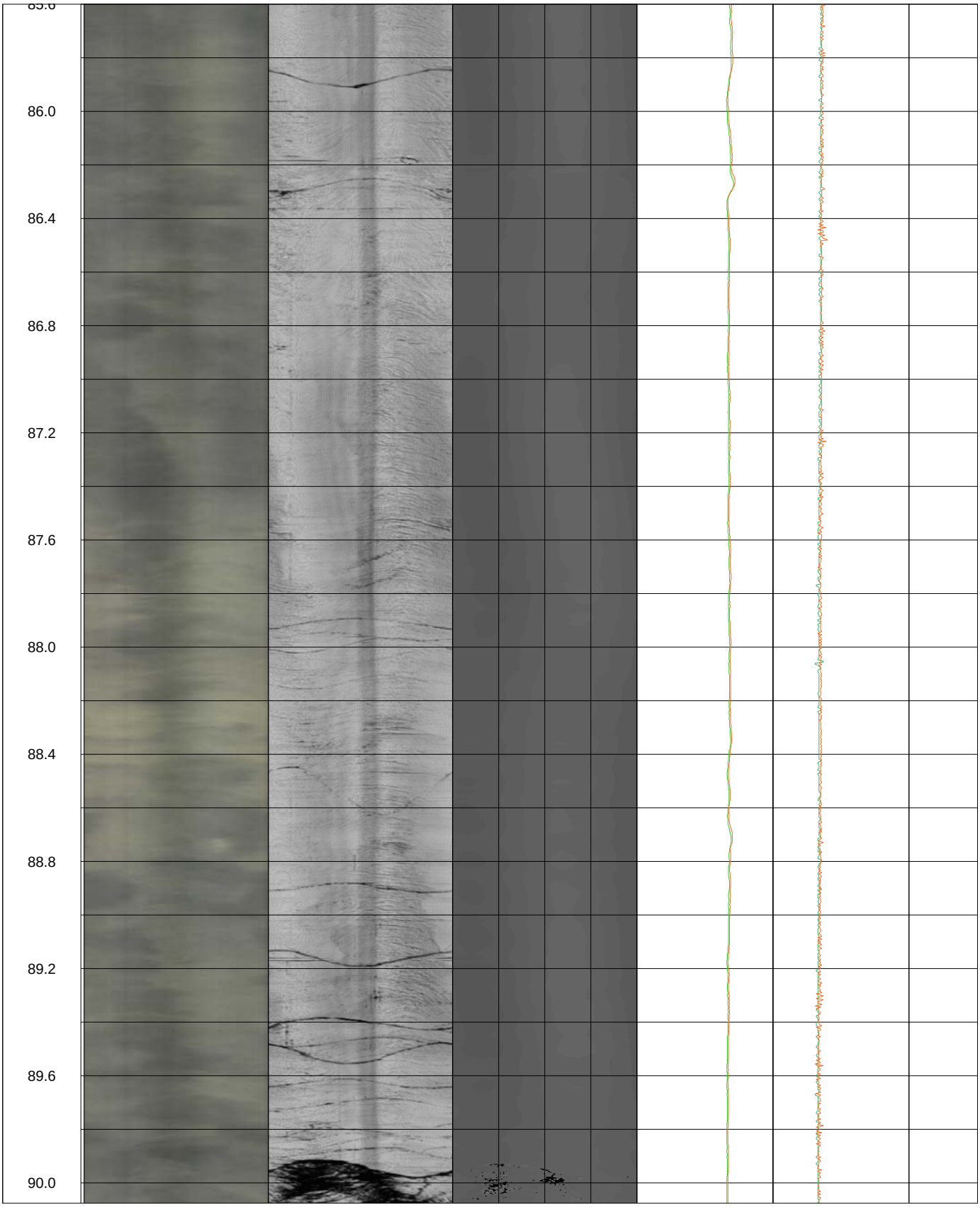

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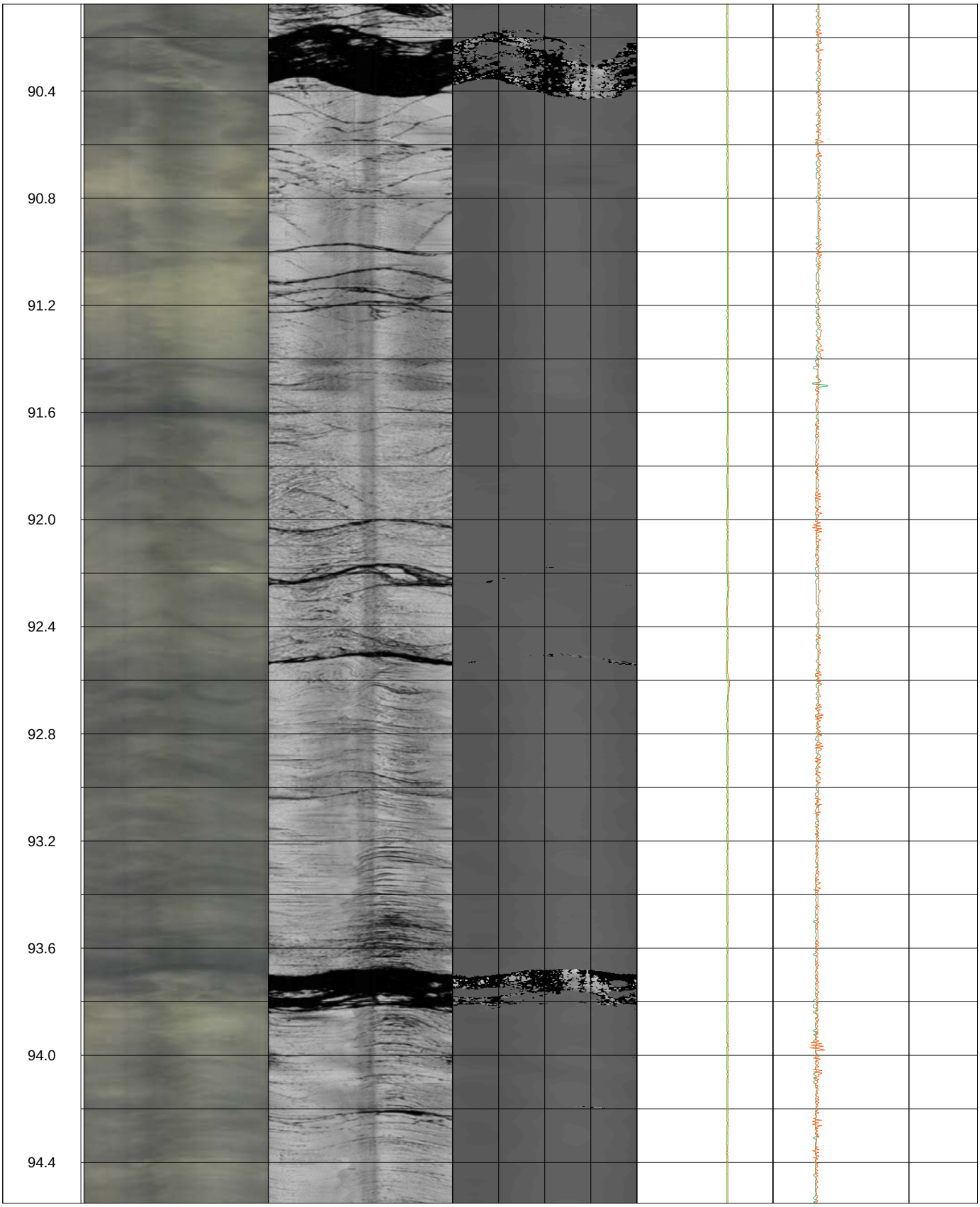

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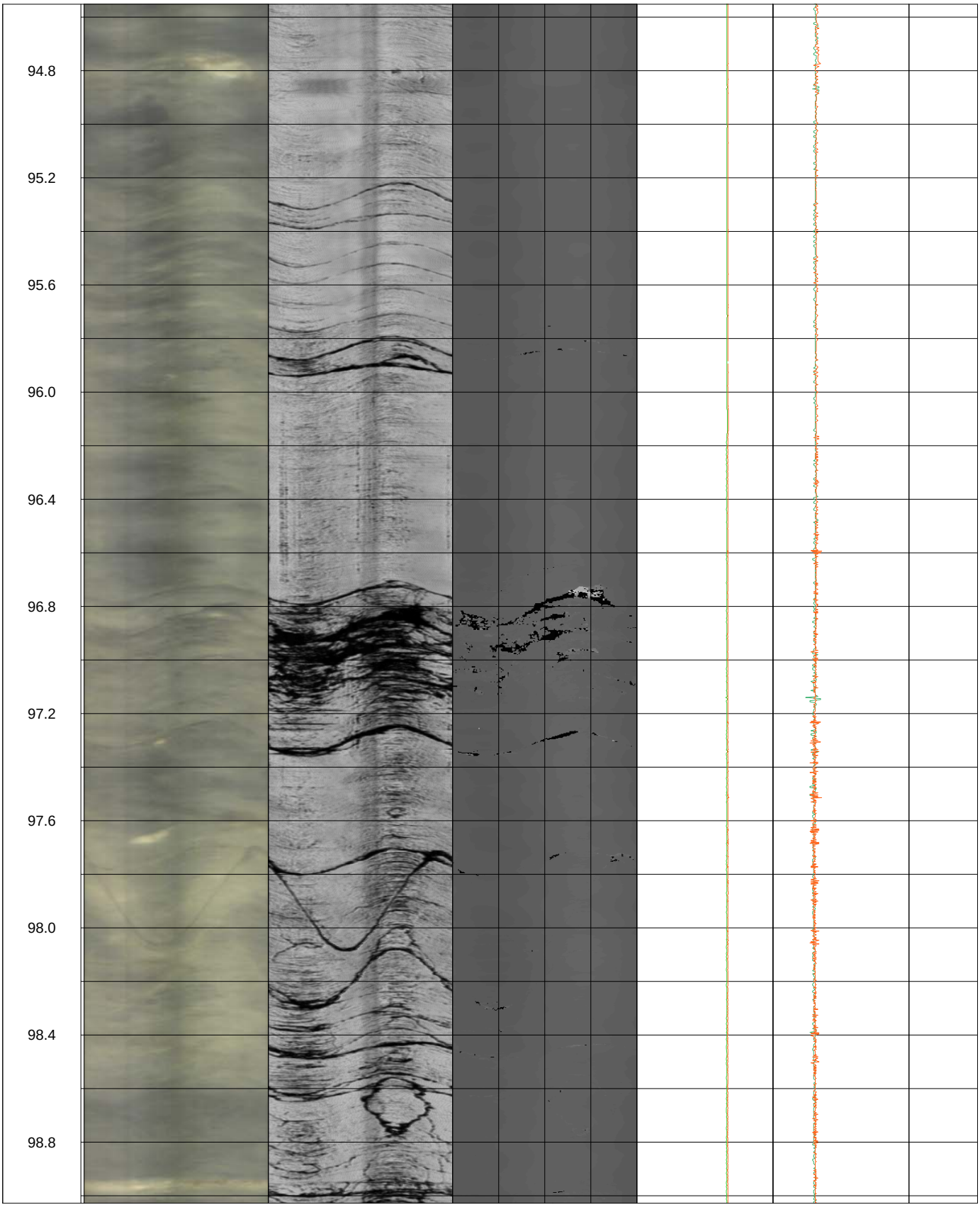

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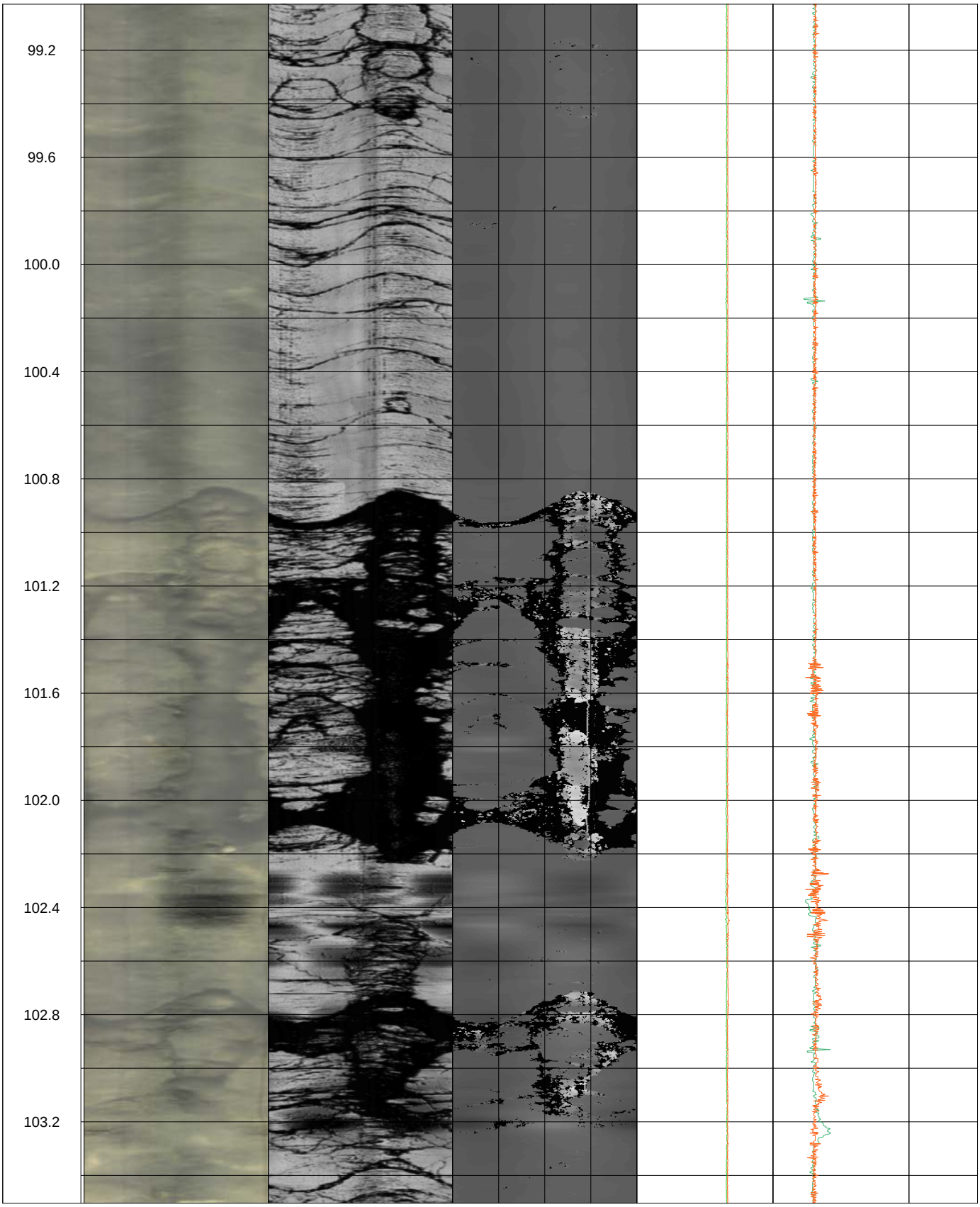

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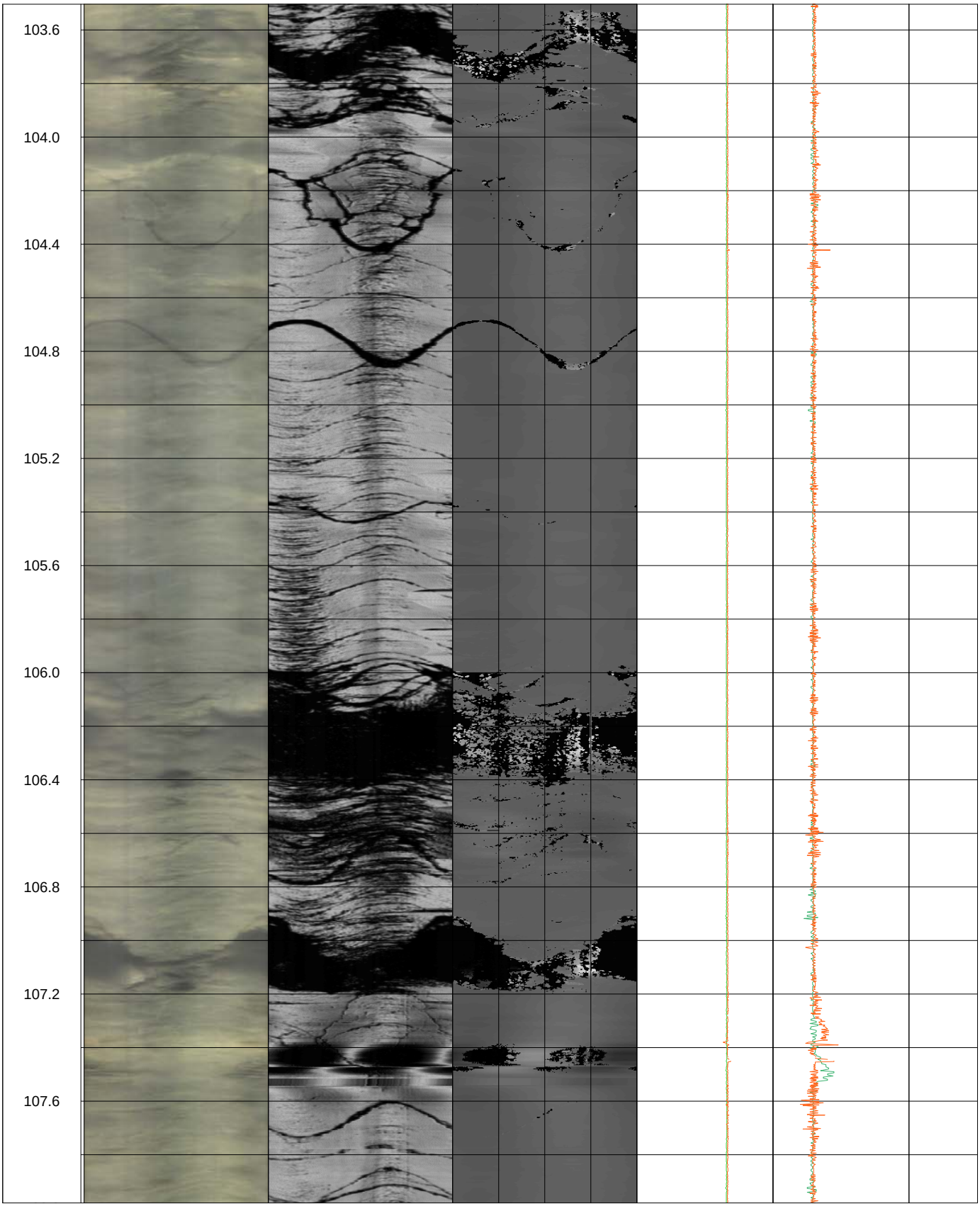

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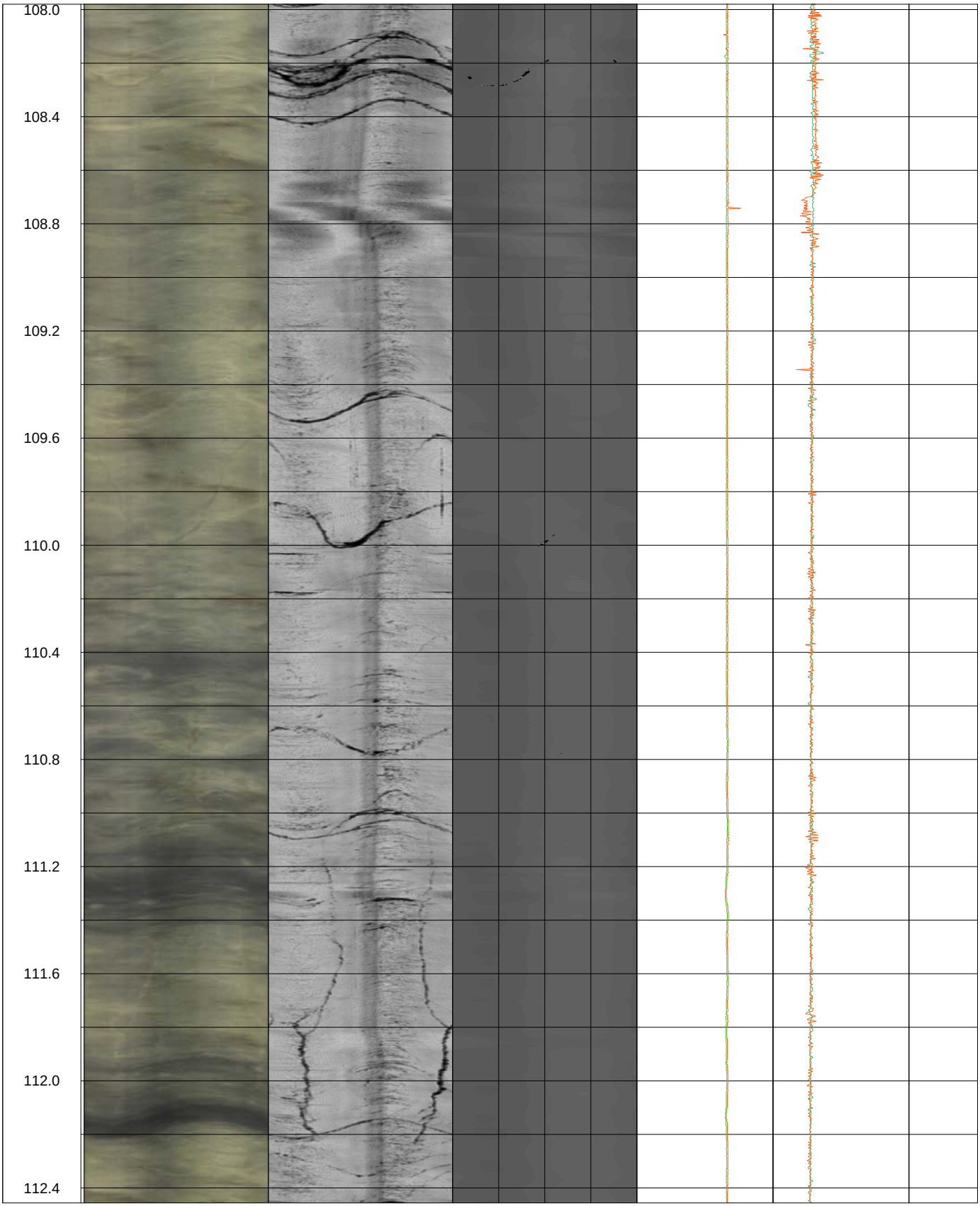

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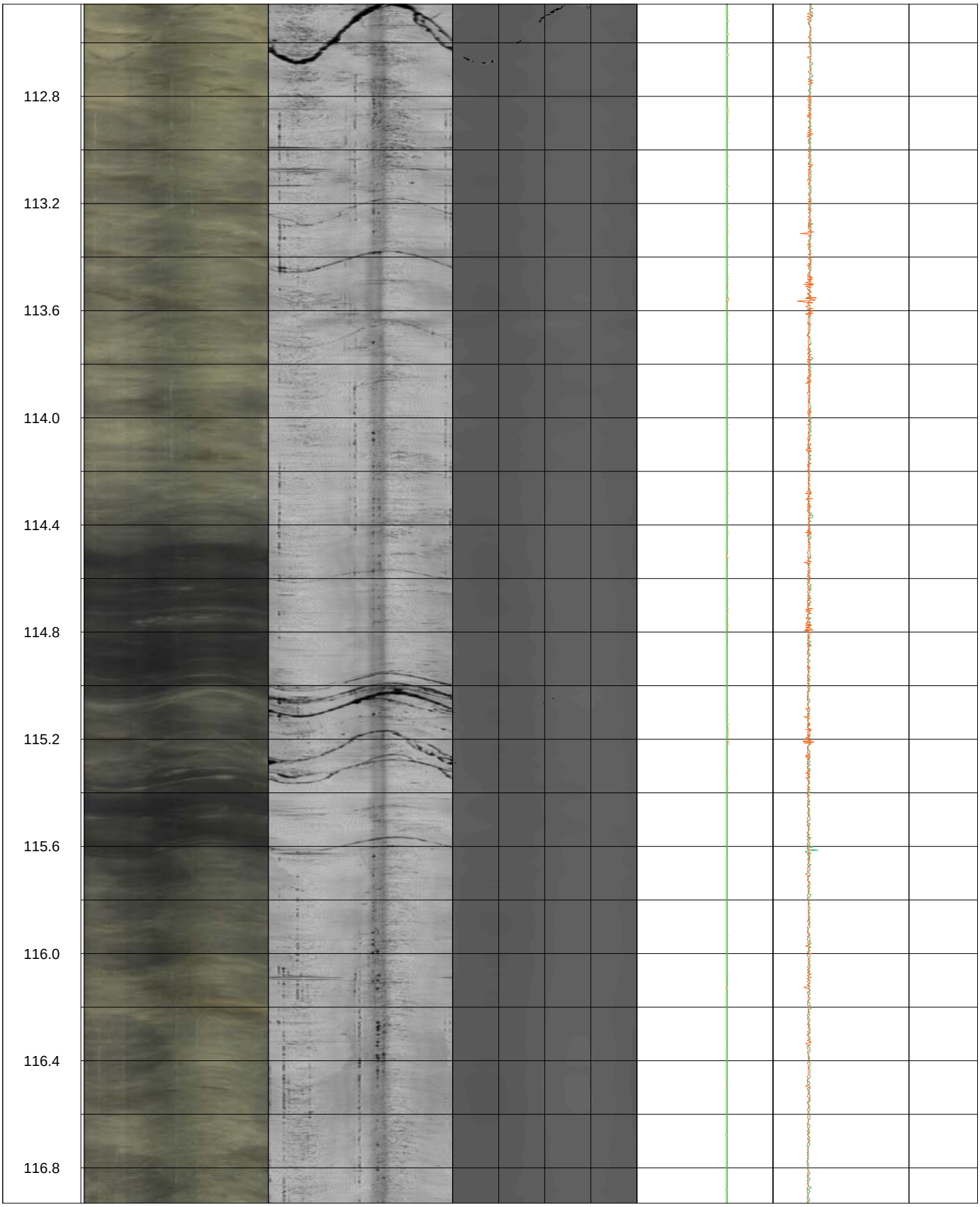

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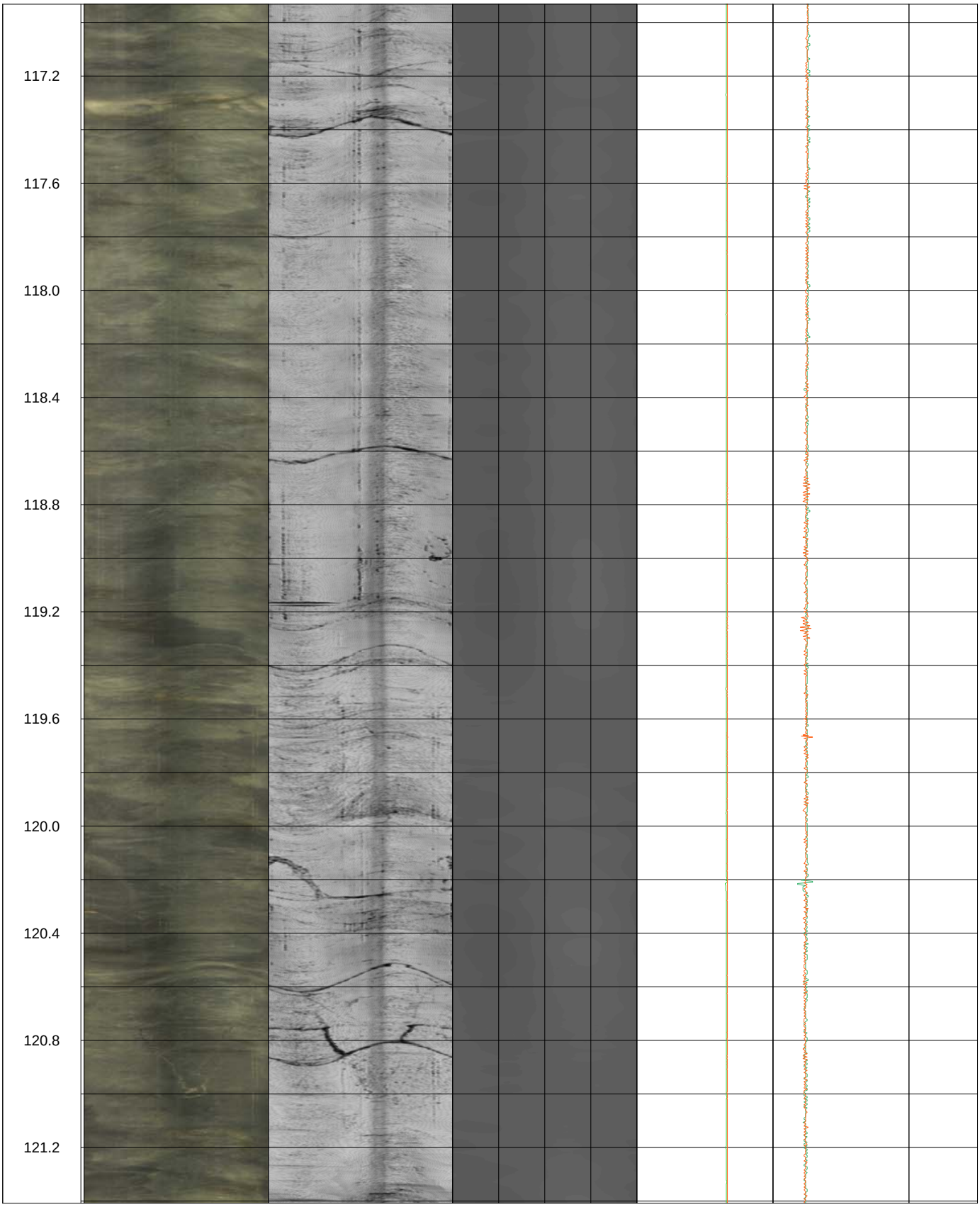

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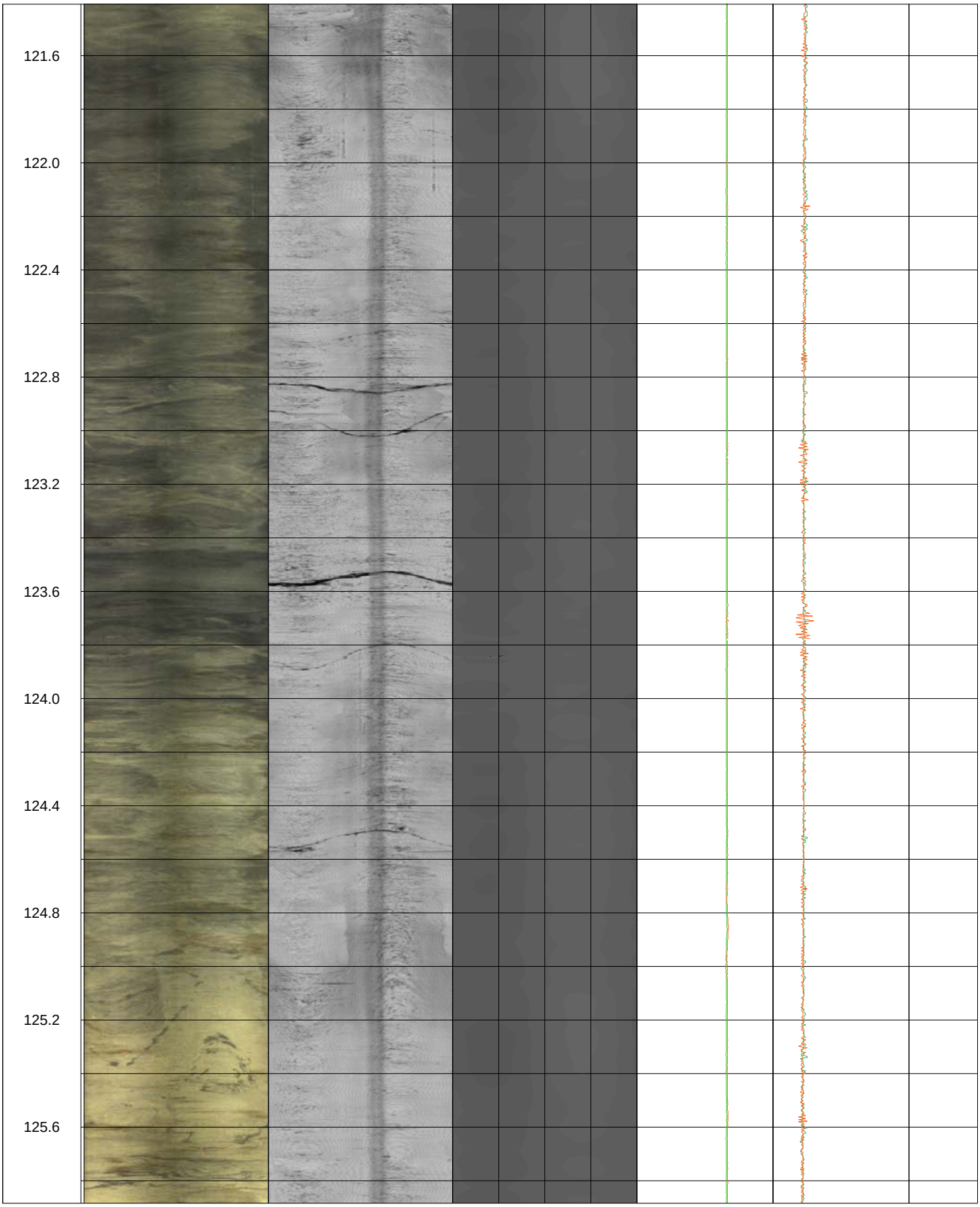

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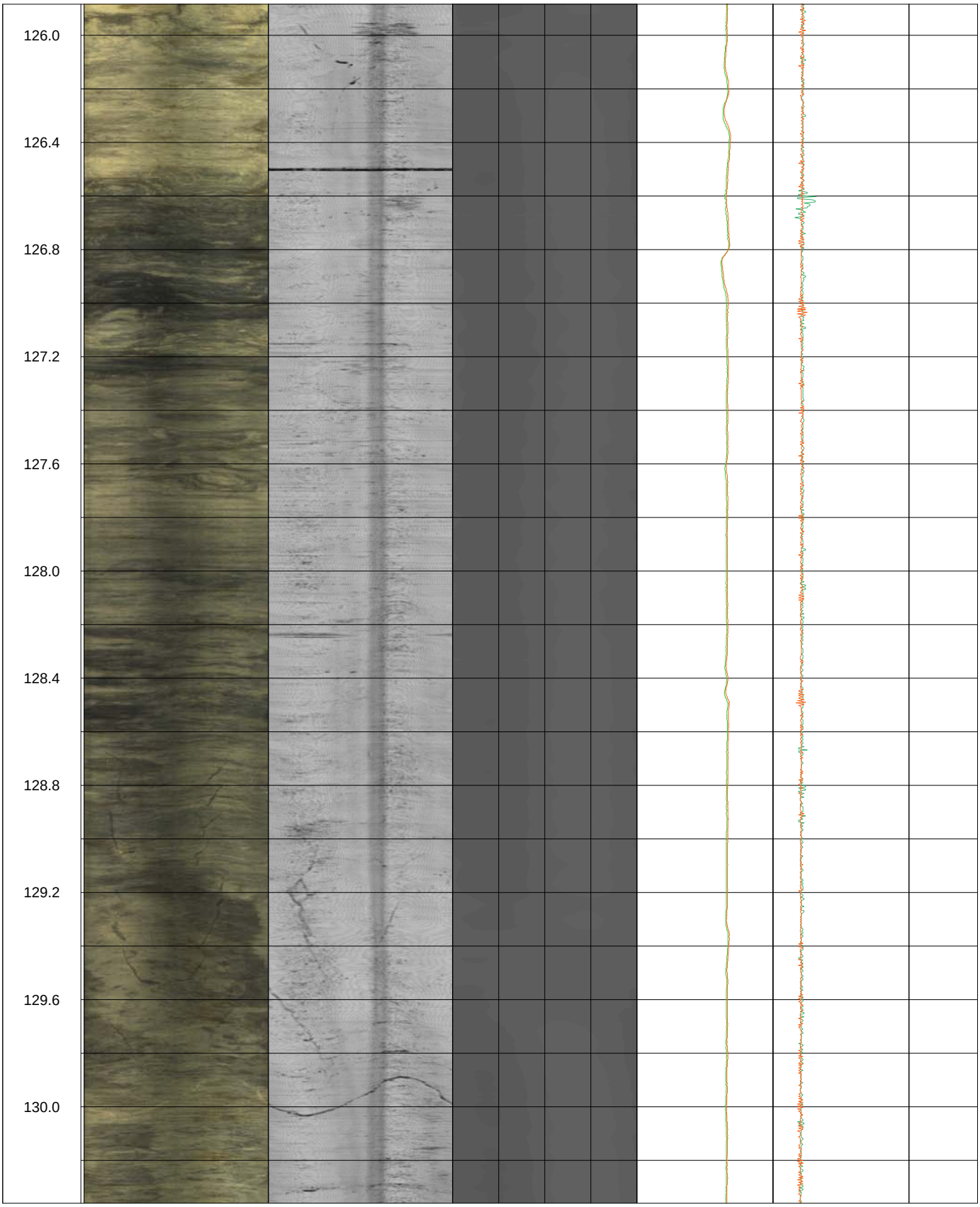

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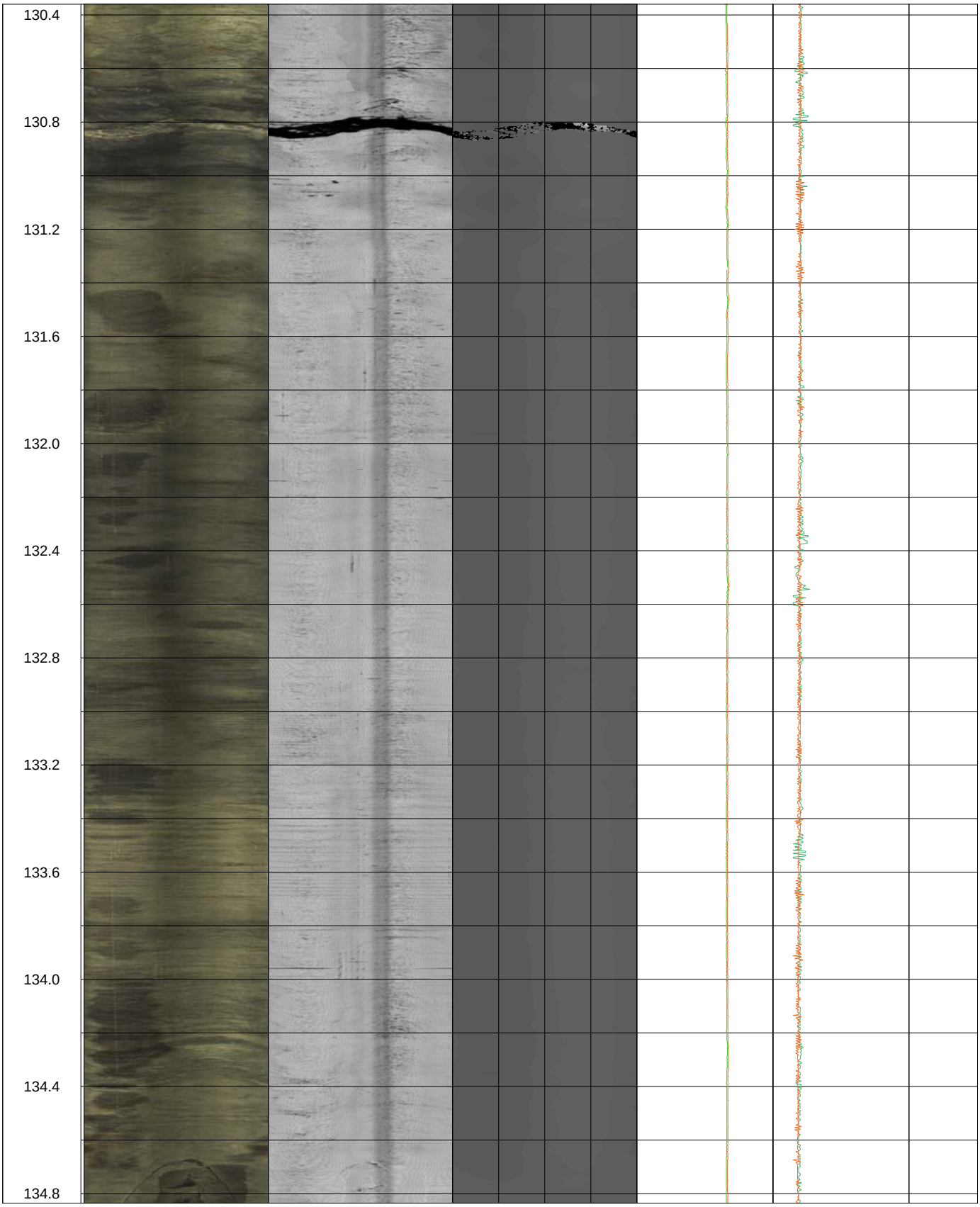

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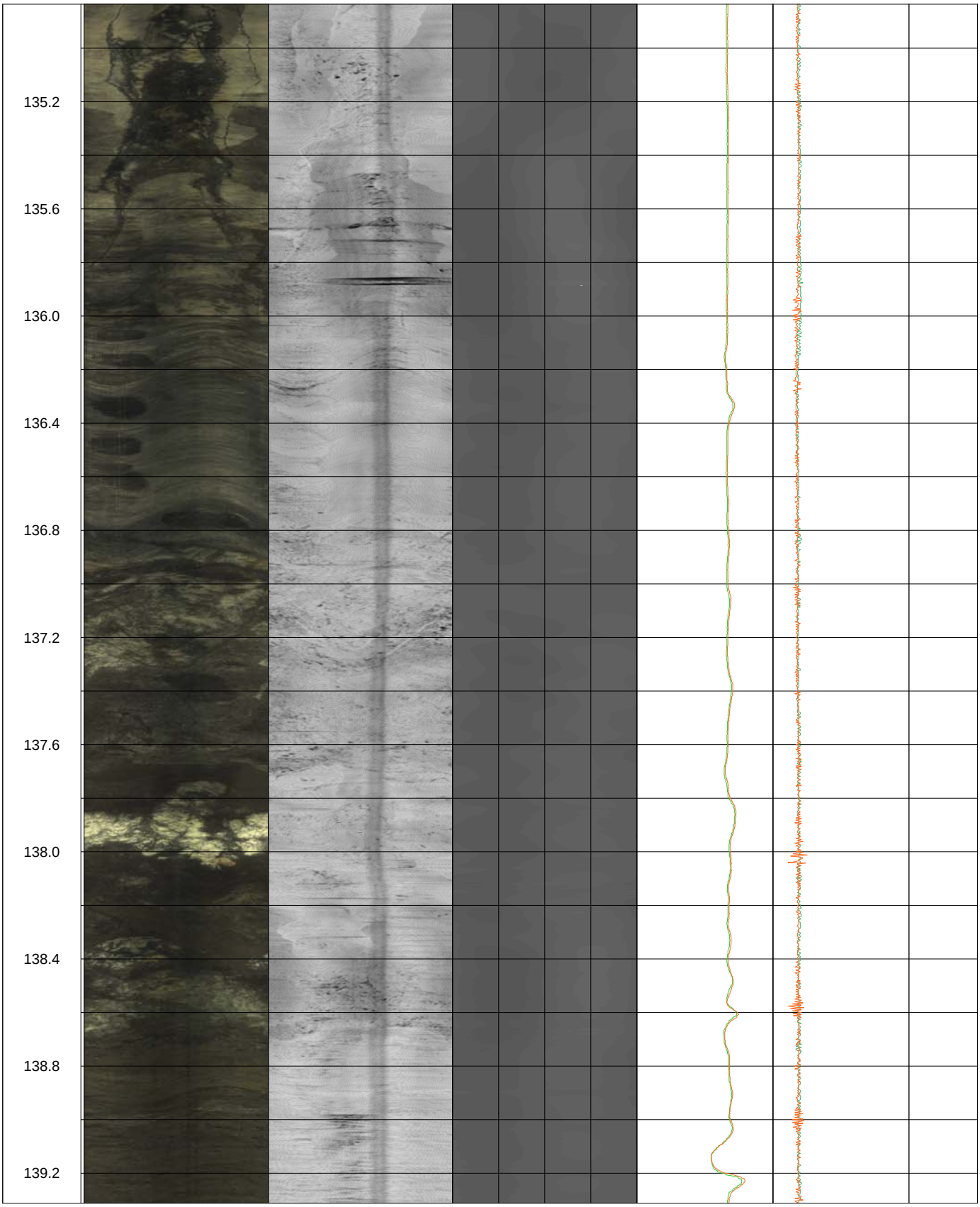

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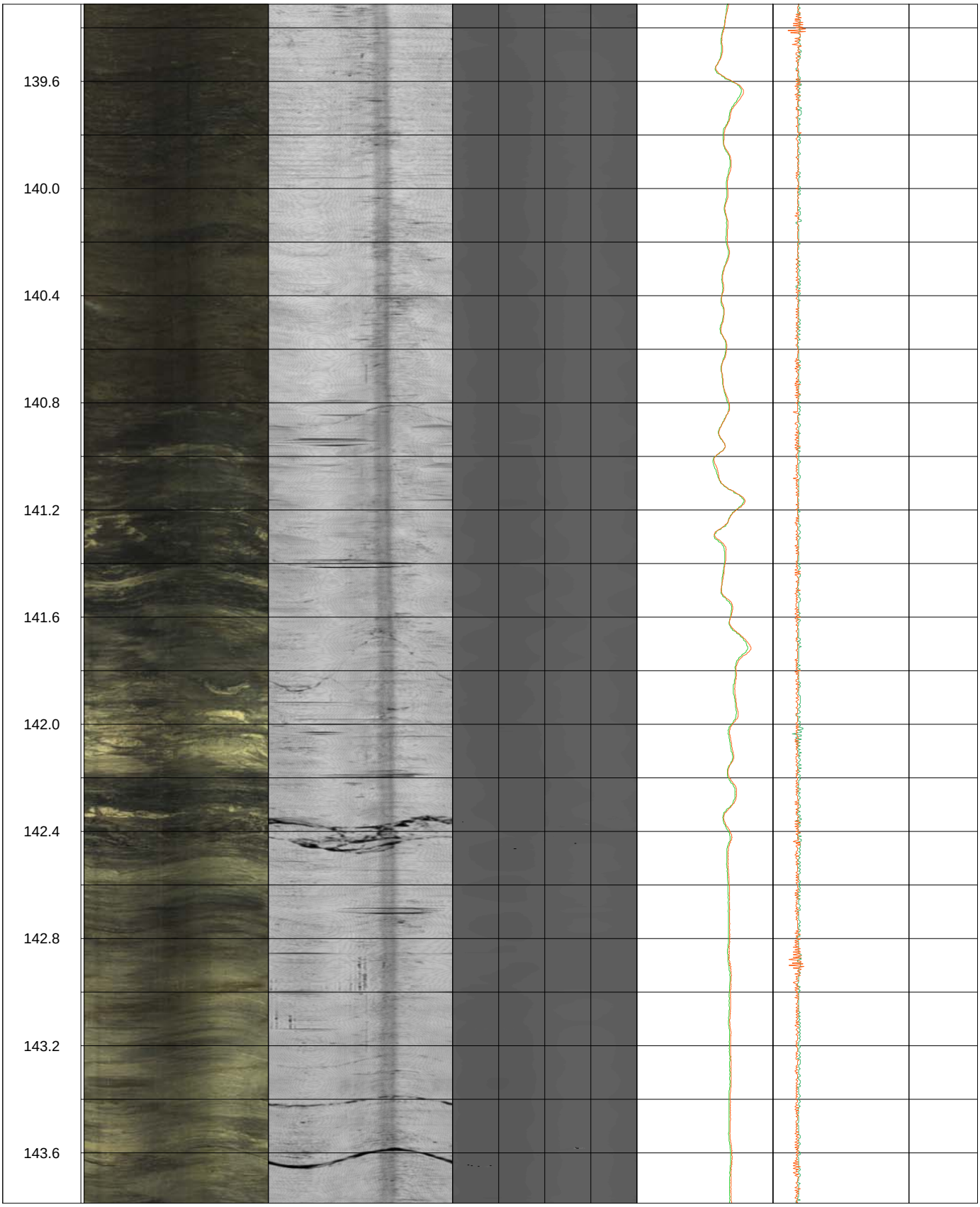

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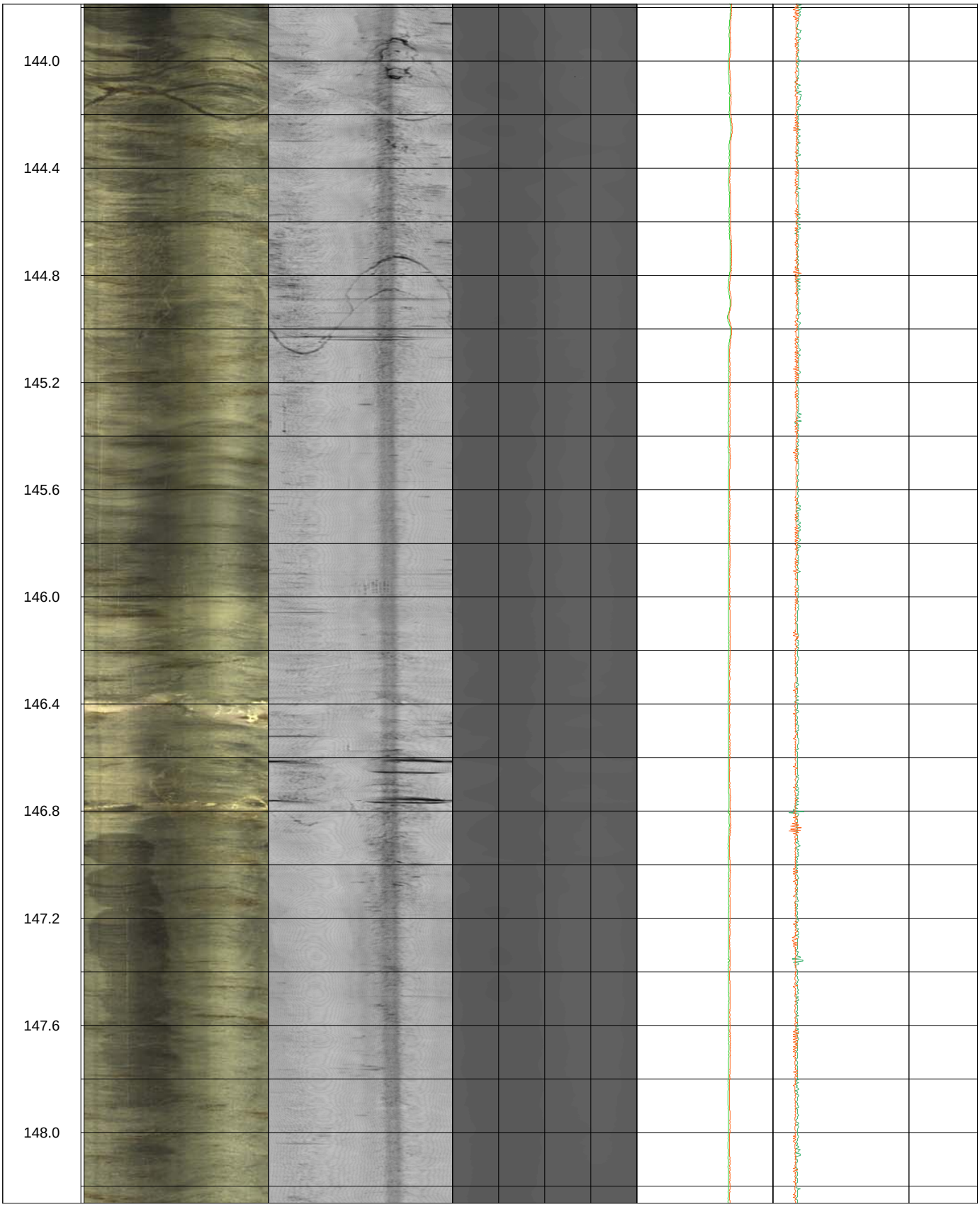

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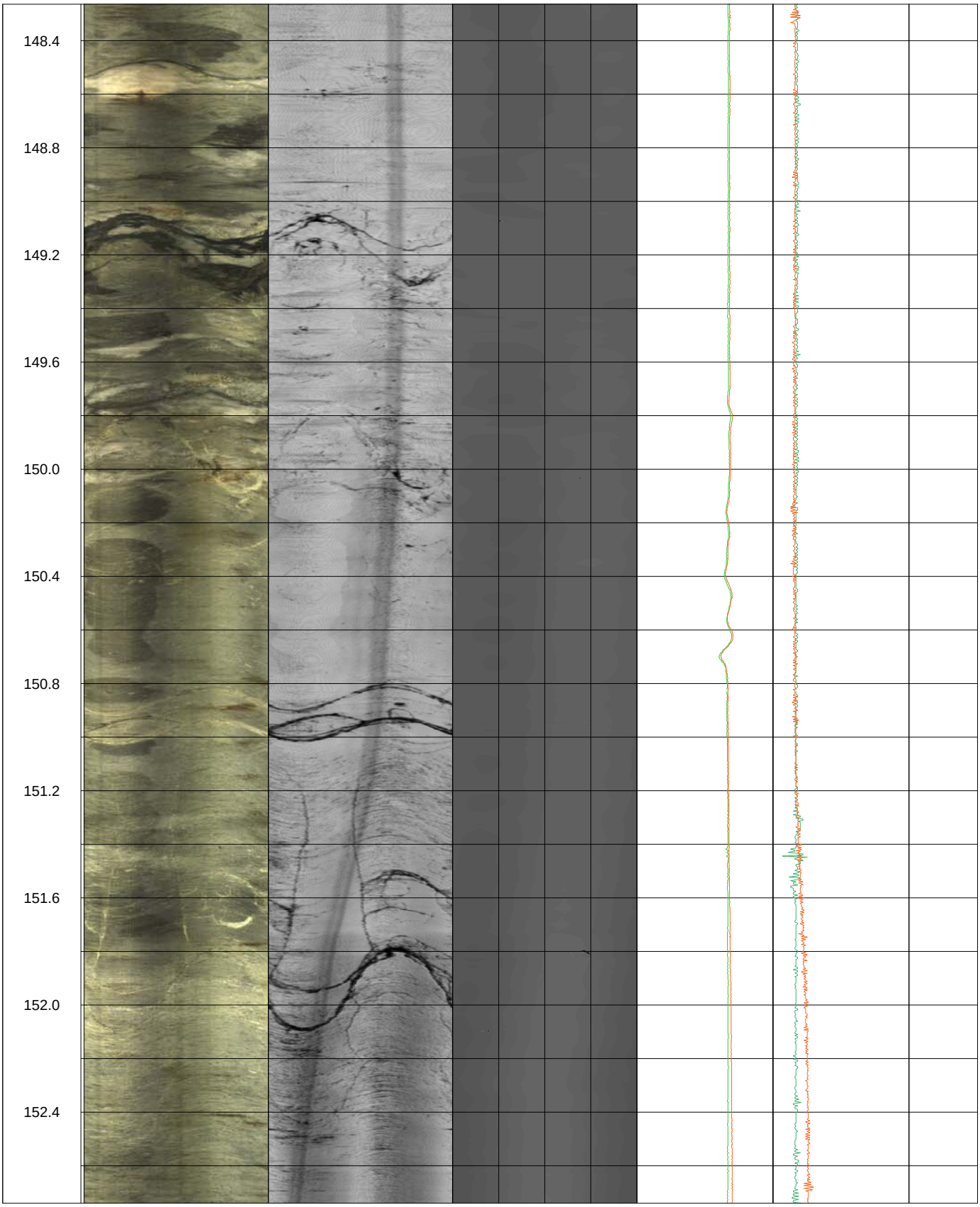

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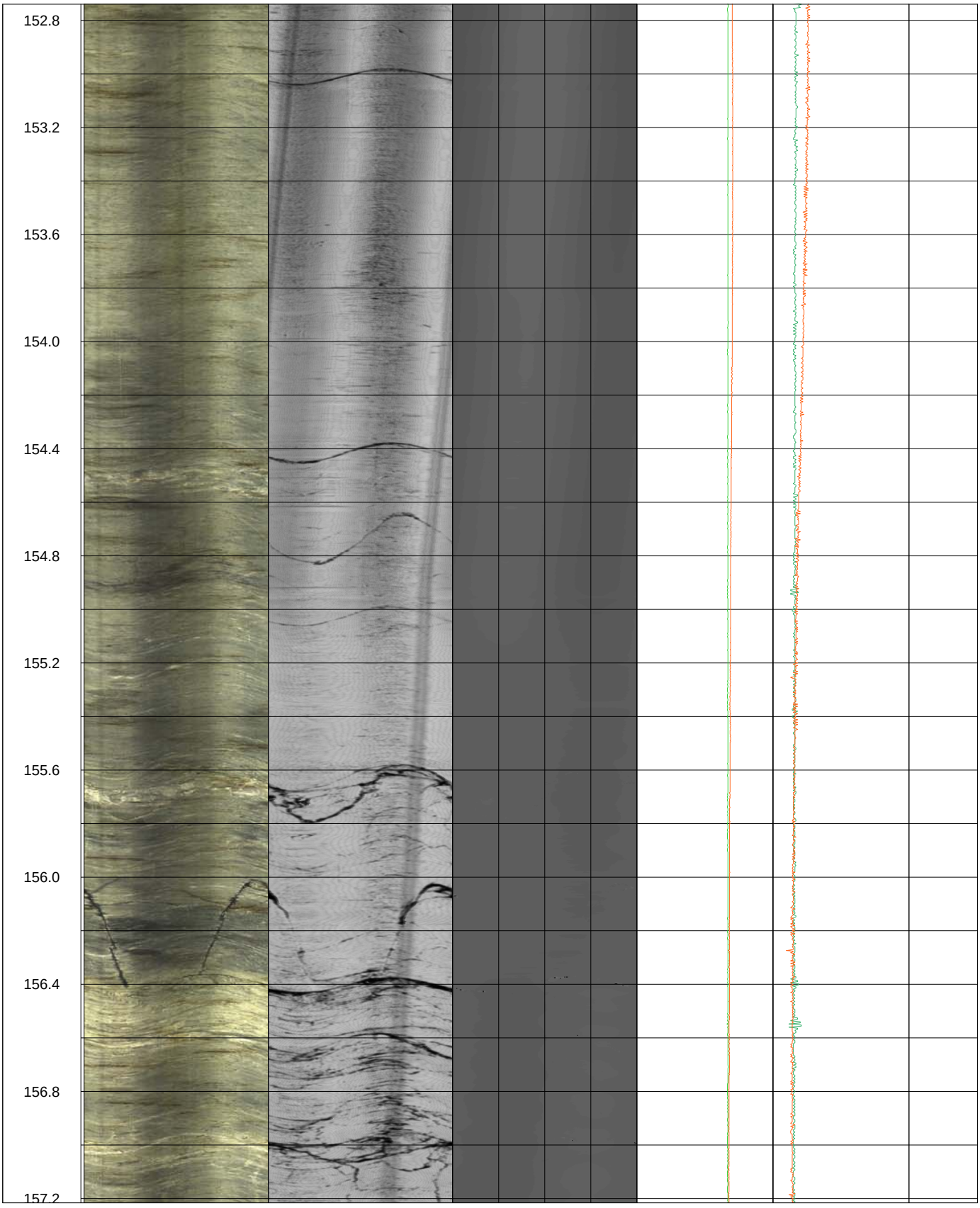

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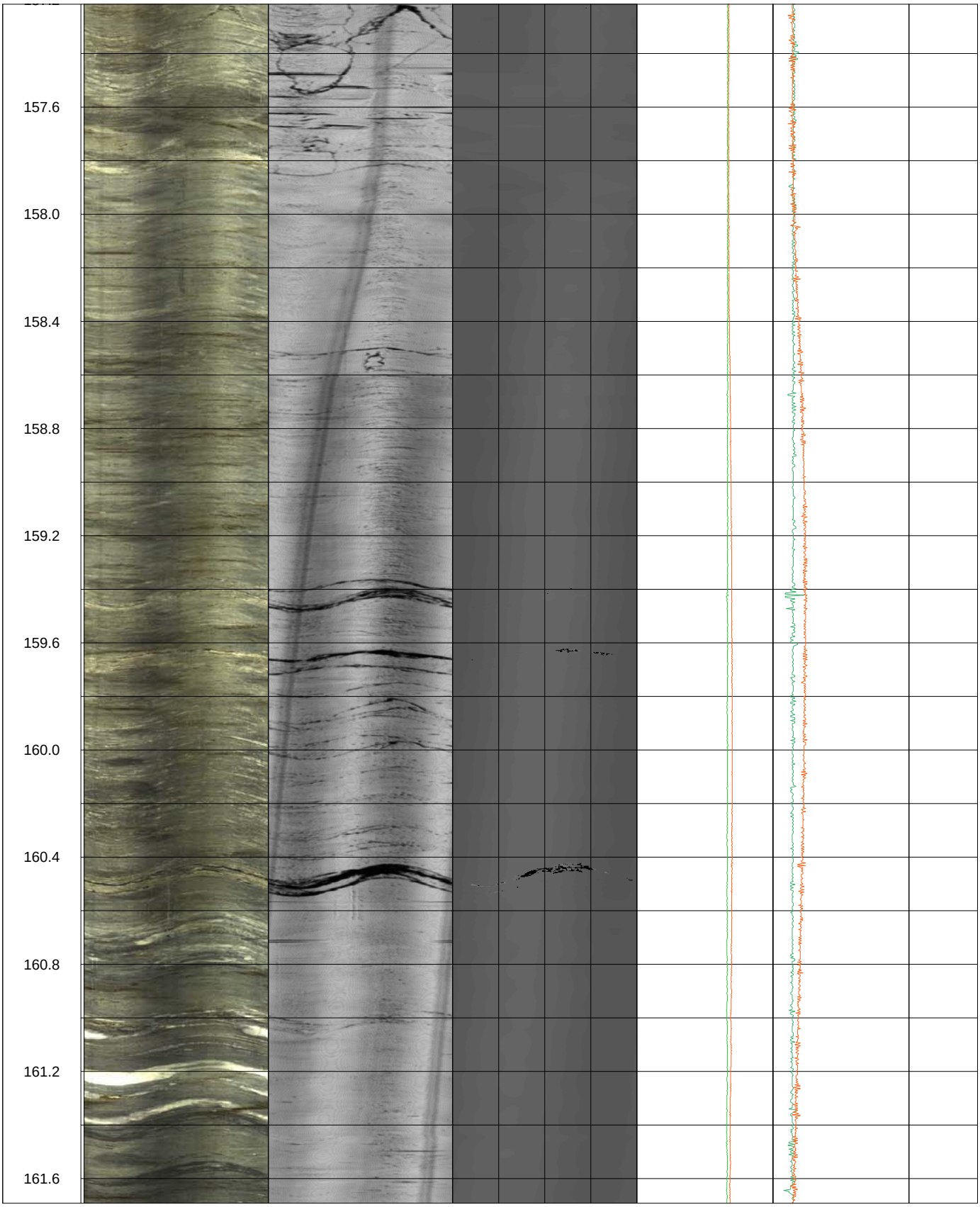
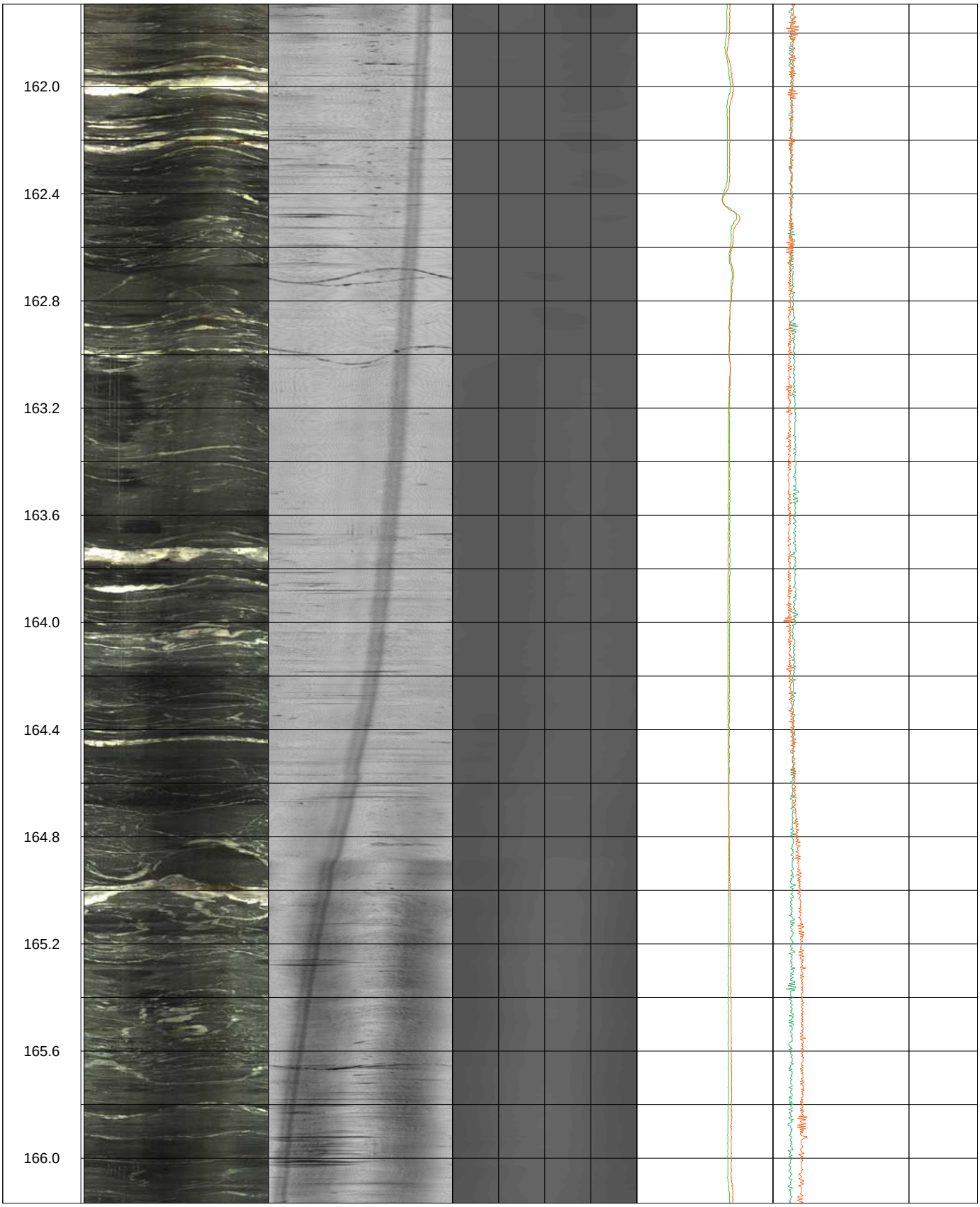
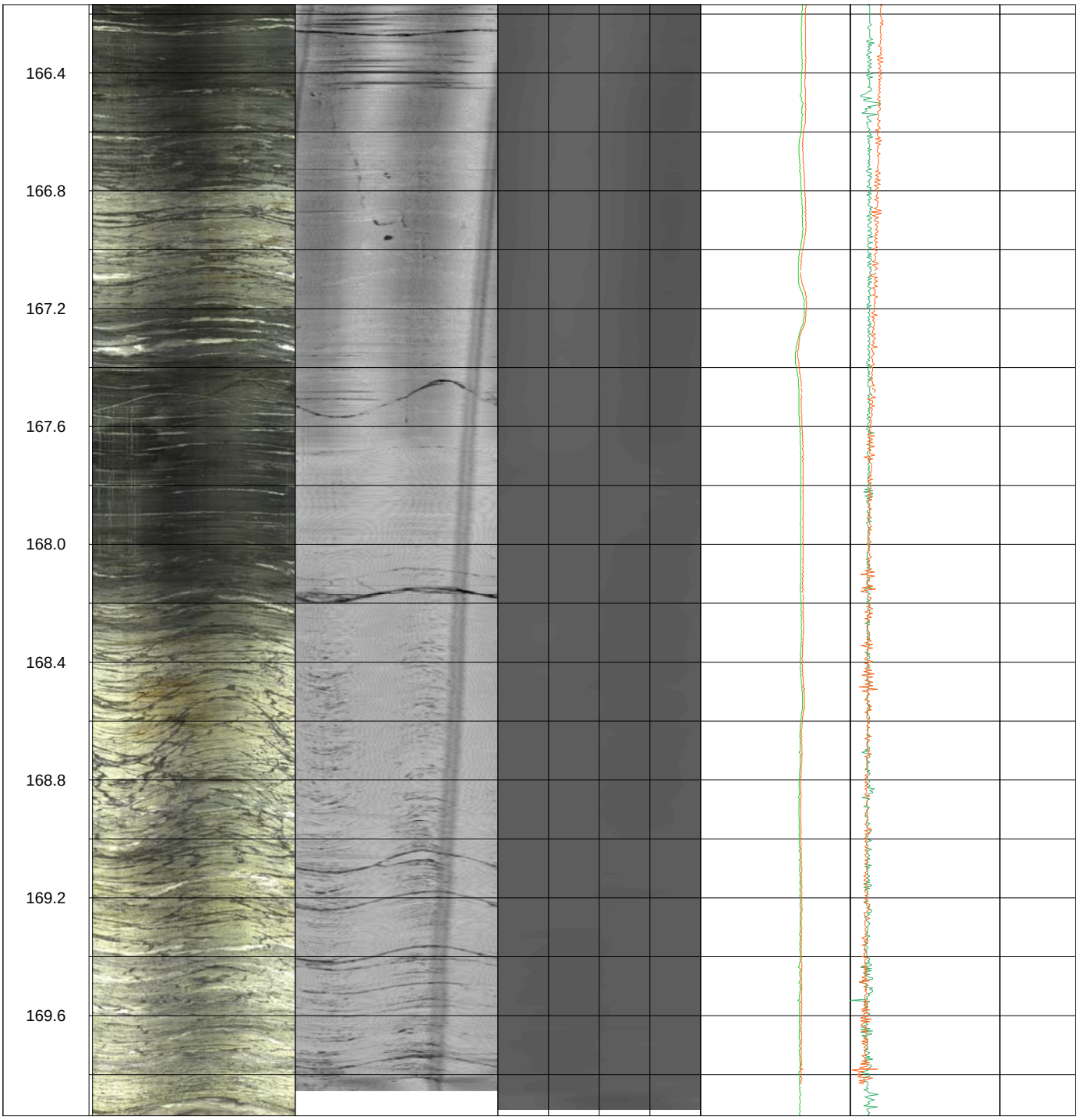


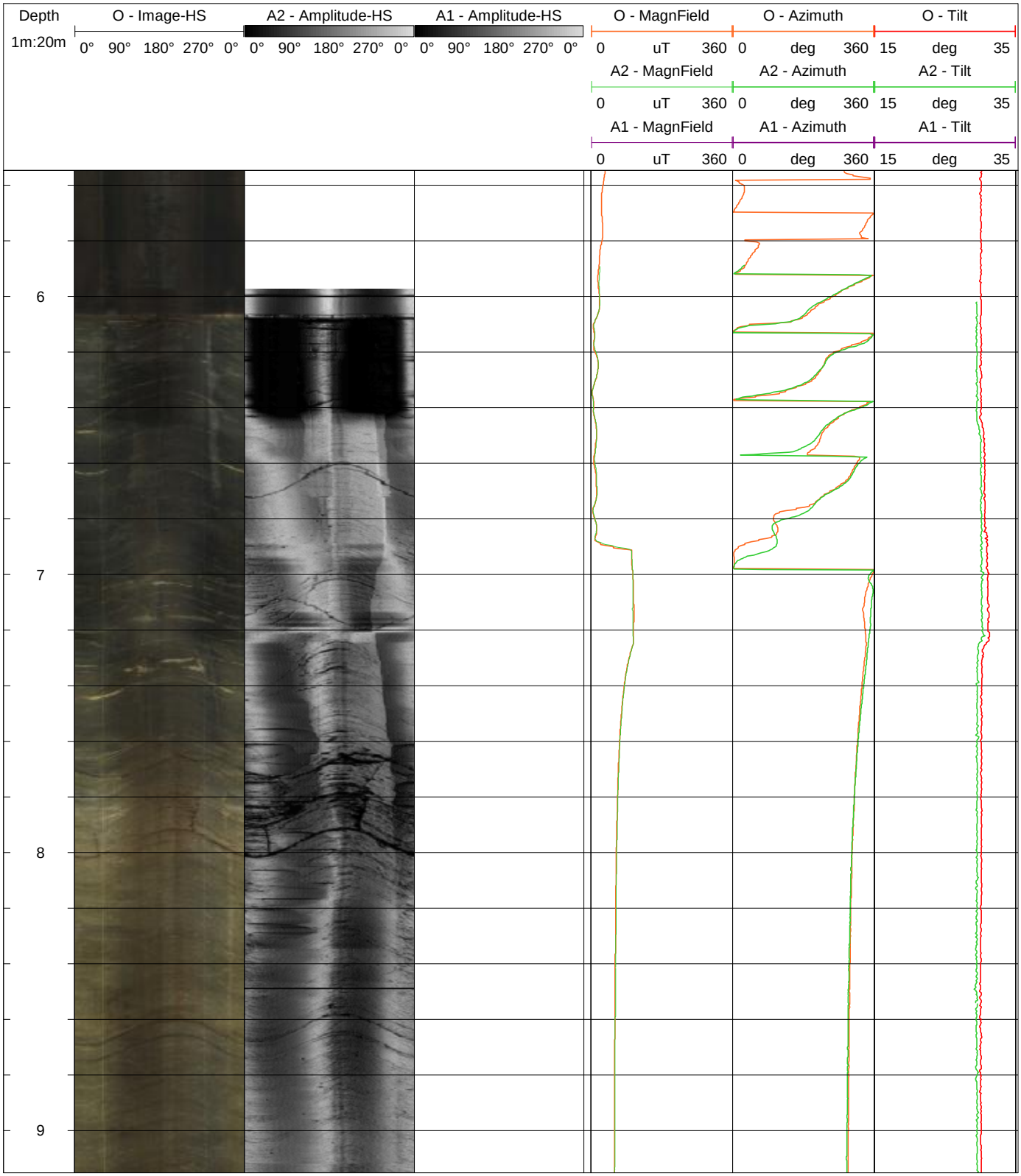
K17-424 Opictal & Acoustic Televiewer Survey Cont.



K17-424 Opictal & Acoustic Televiewer Survey Cont.



K17-427 Opictal & Acoustic Televiewer Survey



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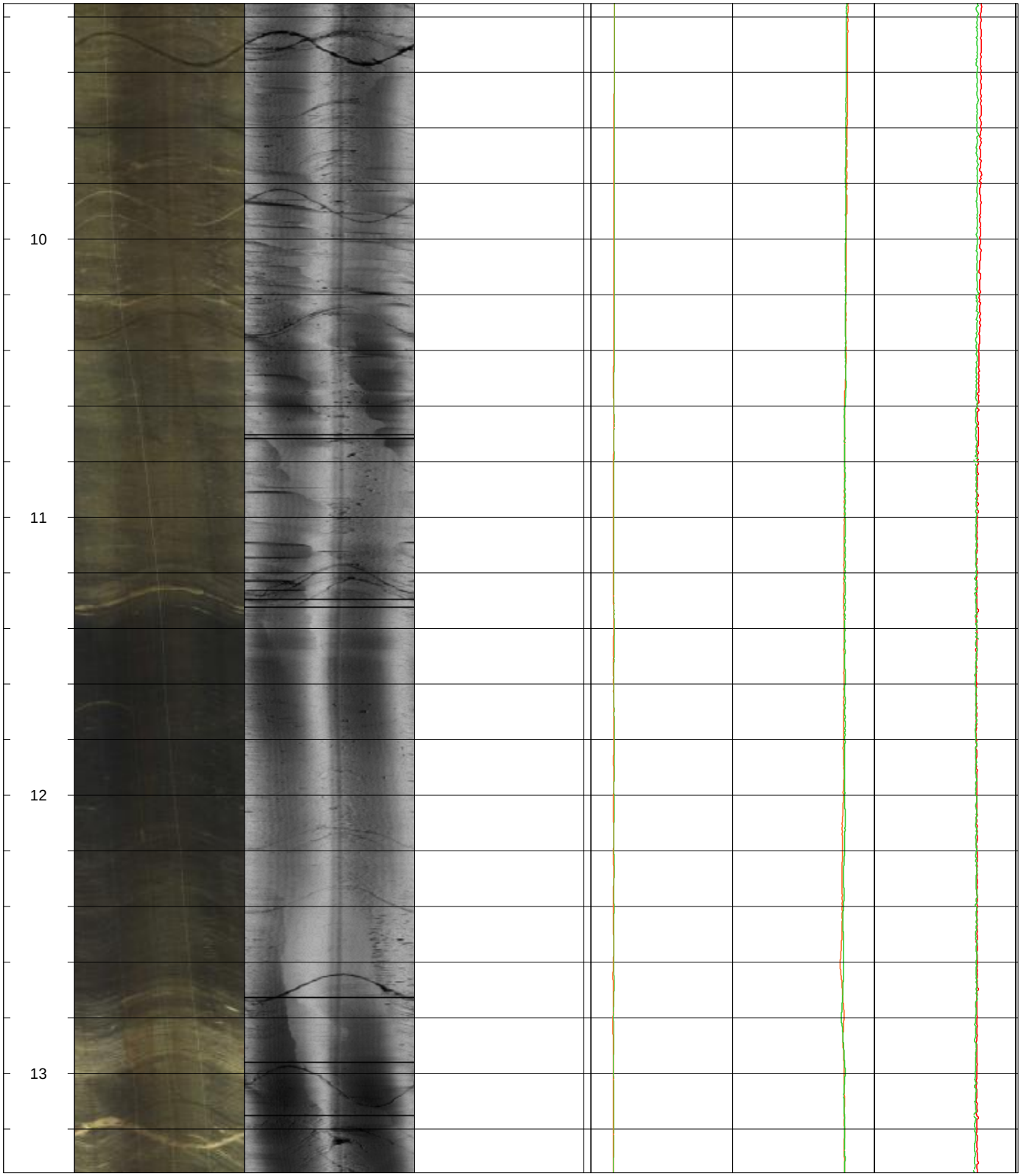
K17-427 Opictal & Acoustic Televiewer Survey Cont.



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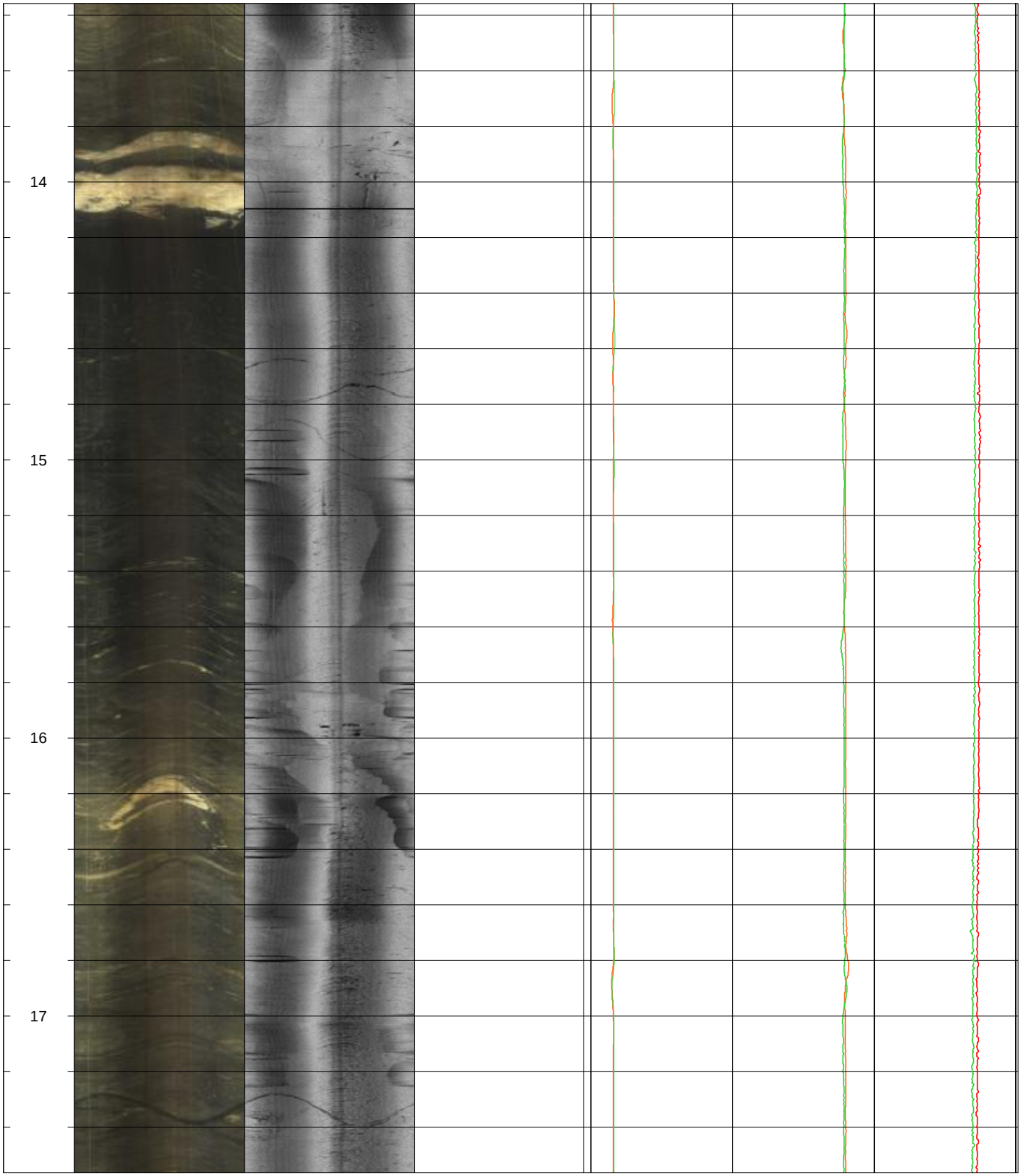

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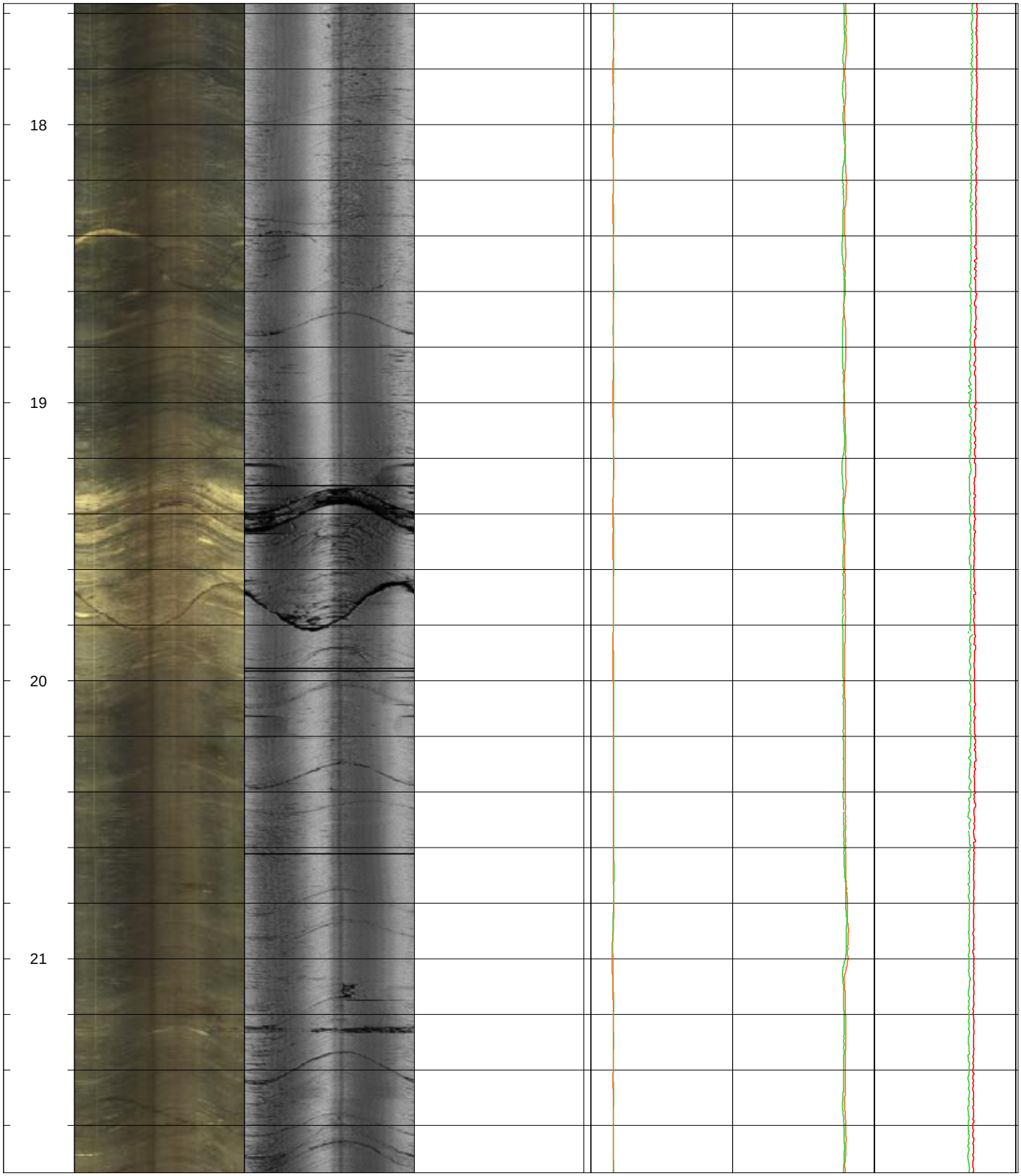
K17-427 Opictal & Acoustic Televiewer Survey Cont.



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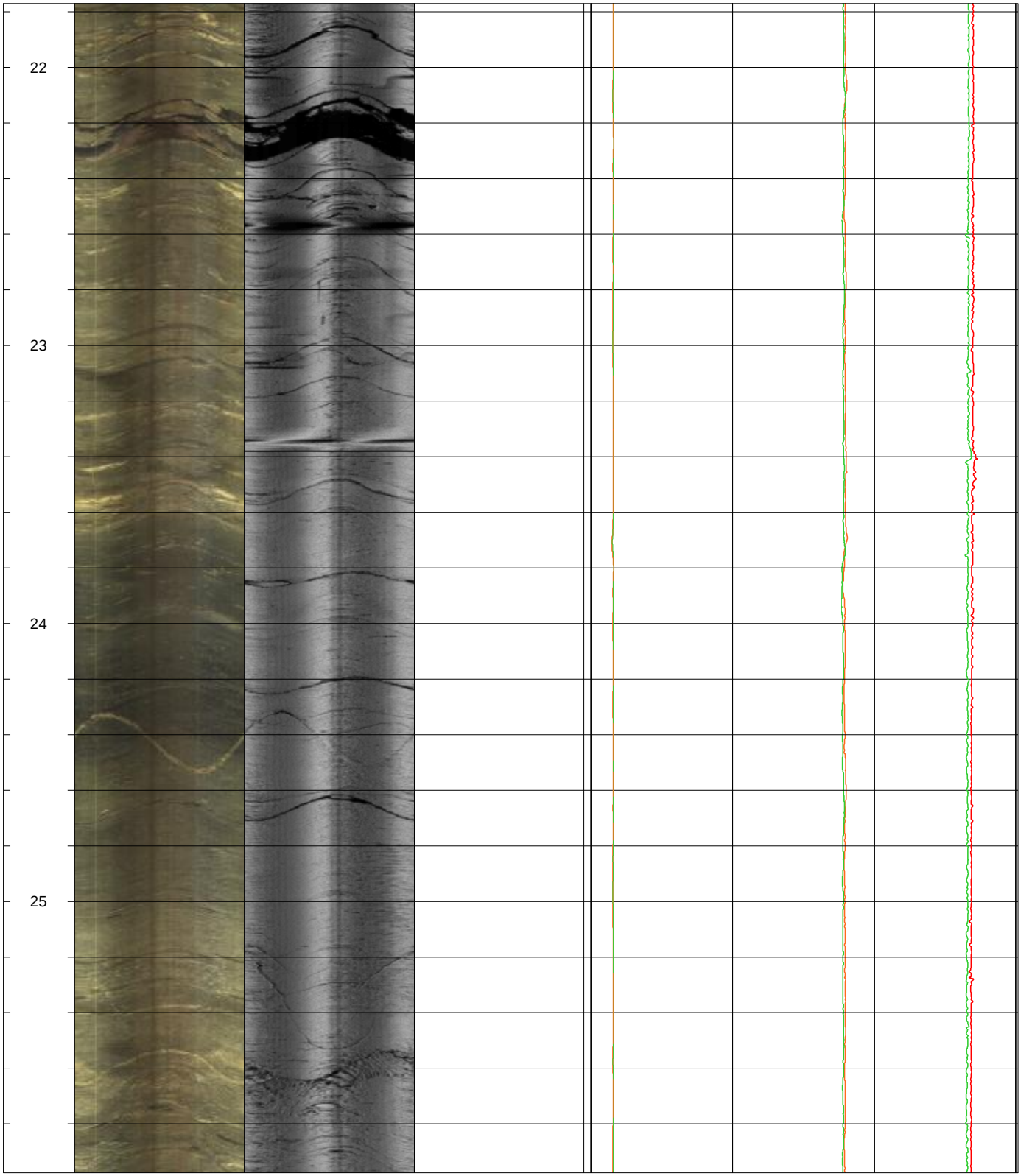

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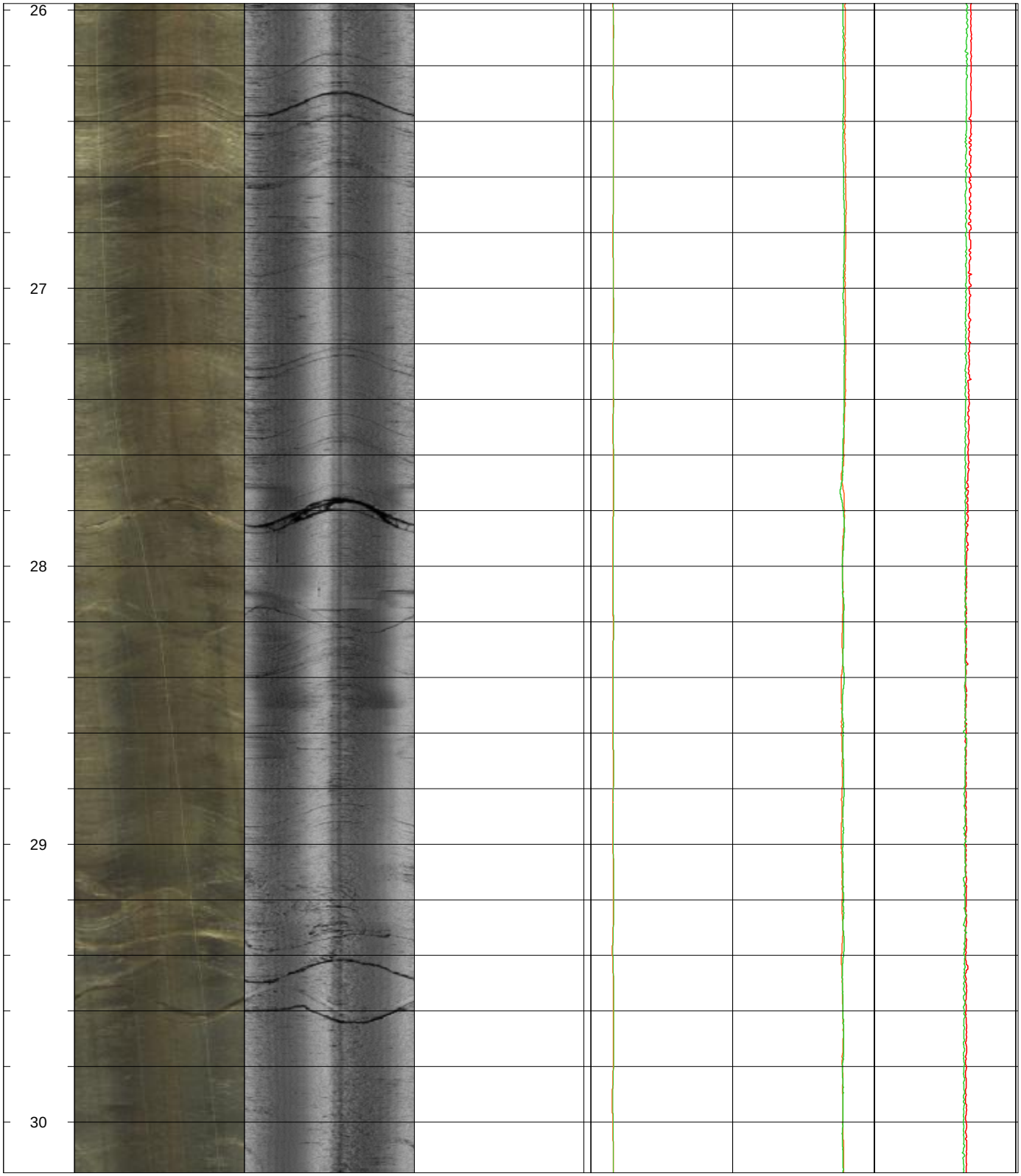
K17-427 Opictal & Acoustic Televiewer Survey Cont.



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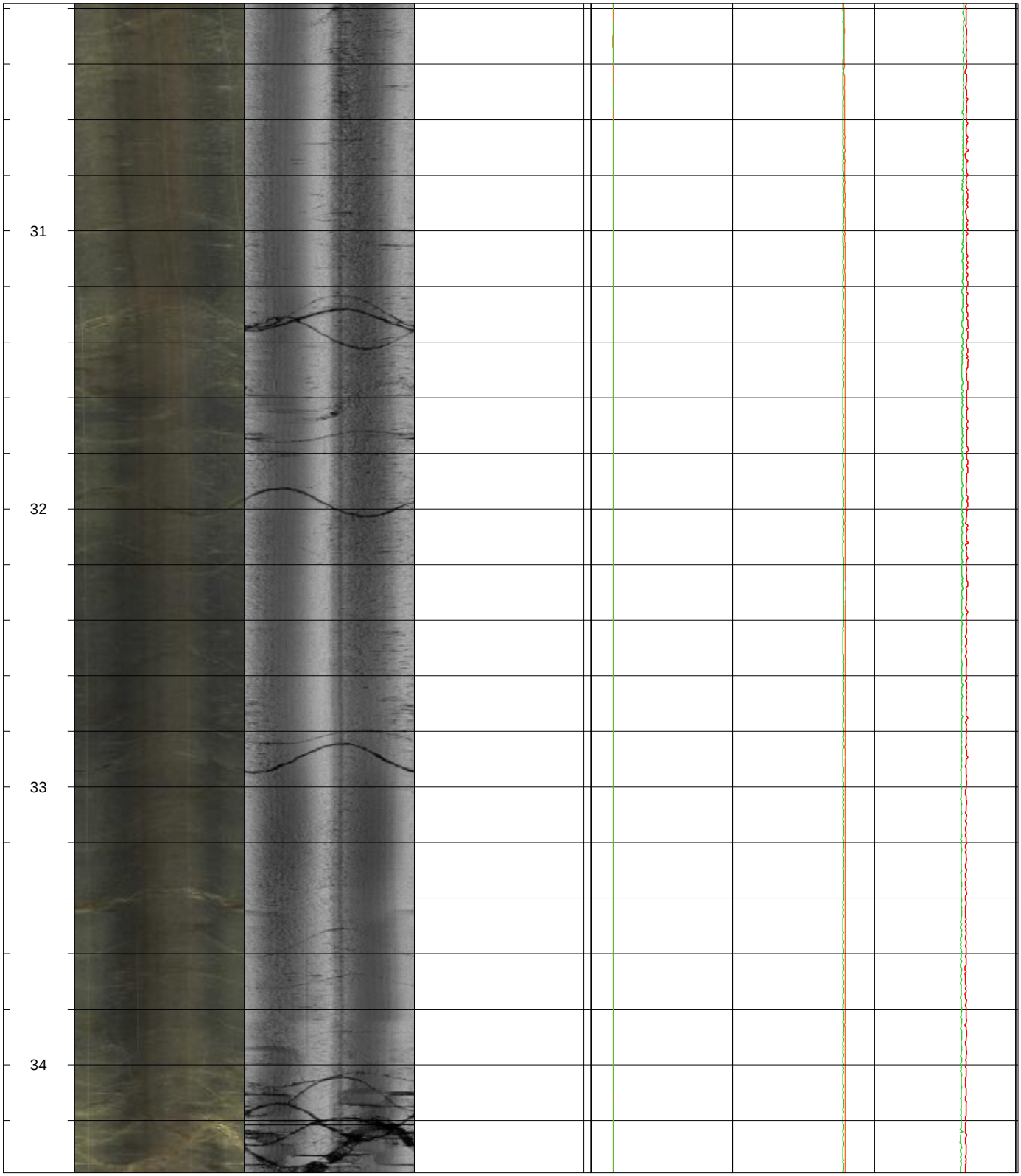

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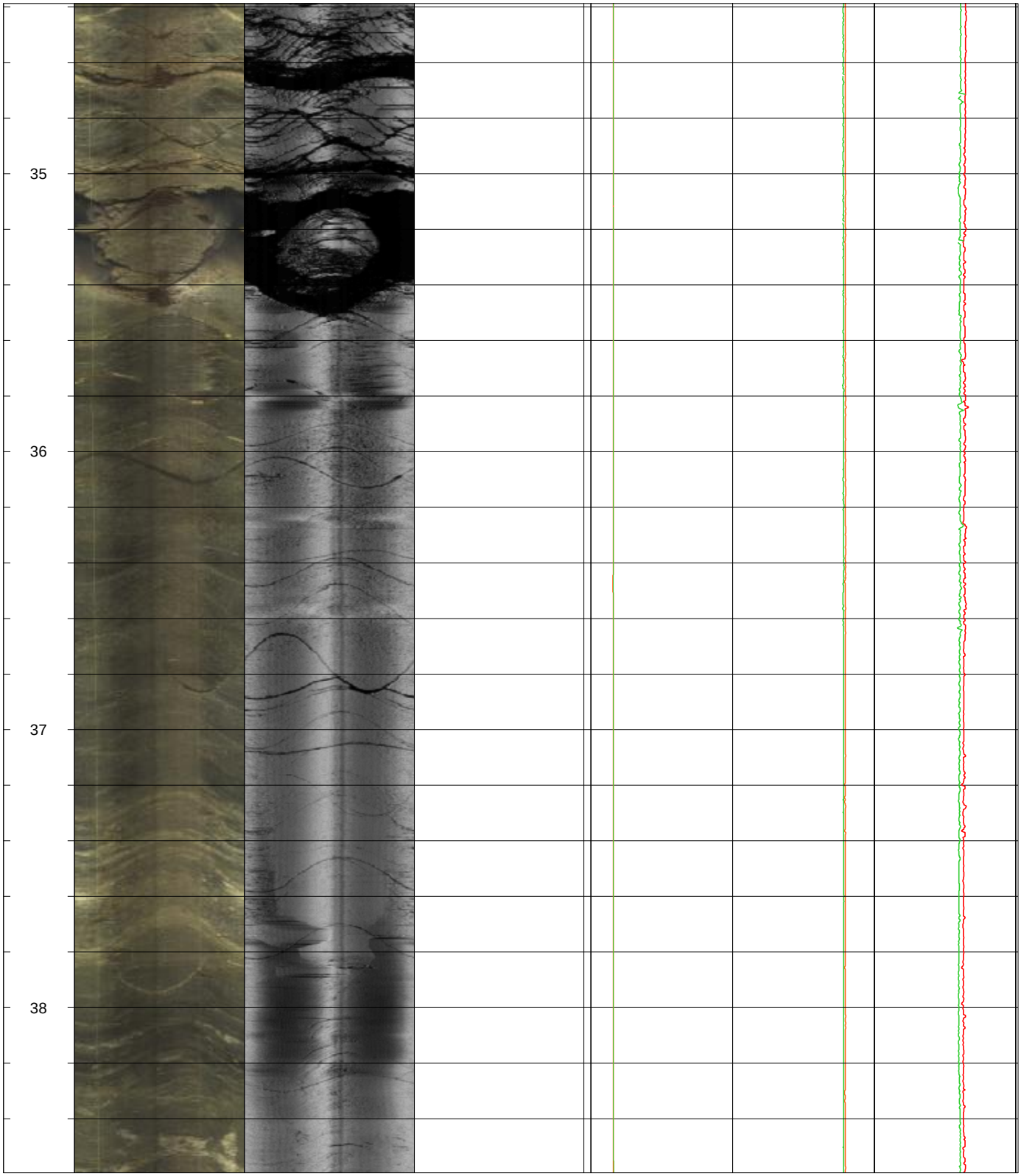

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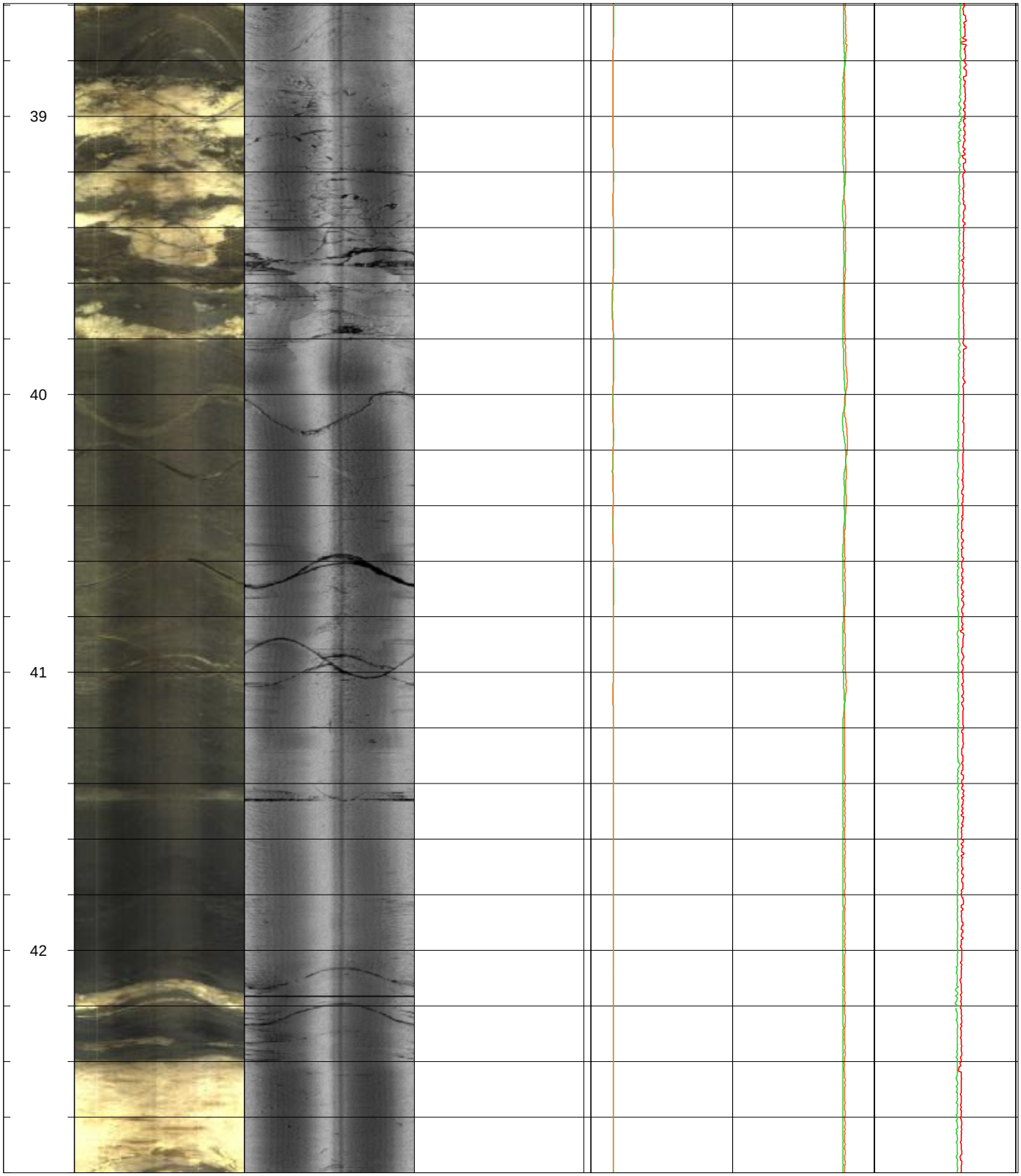

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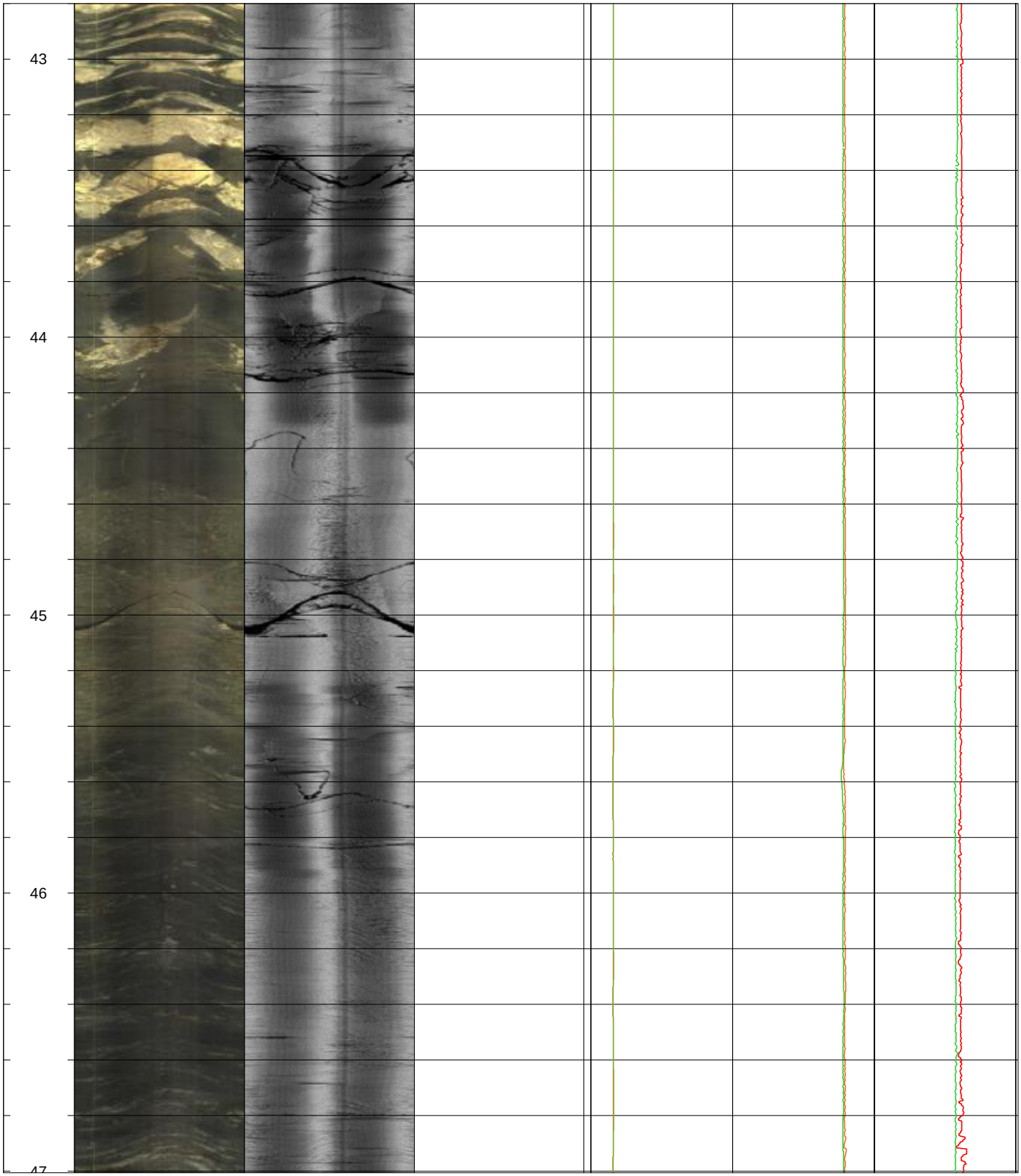

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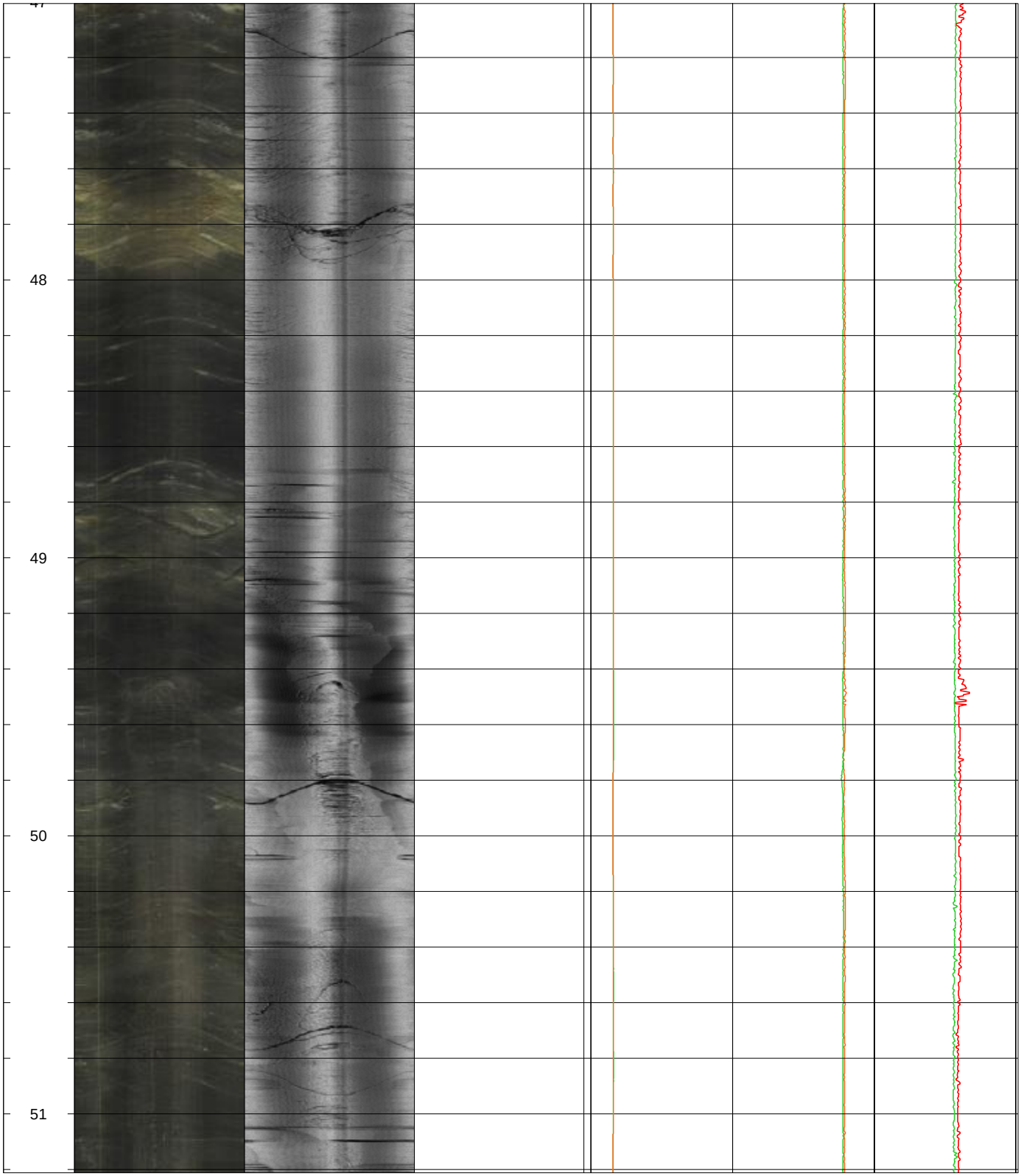

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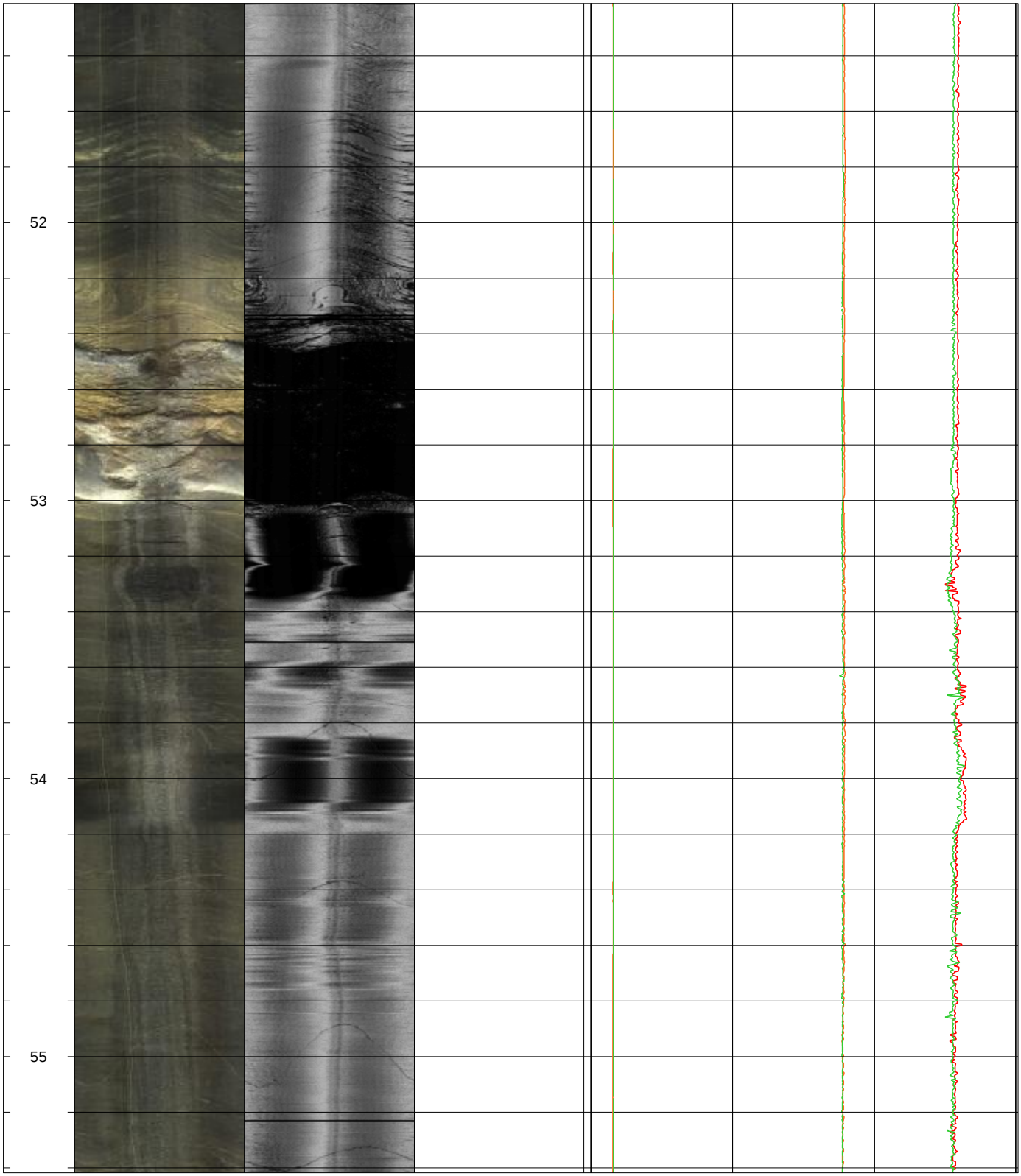

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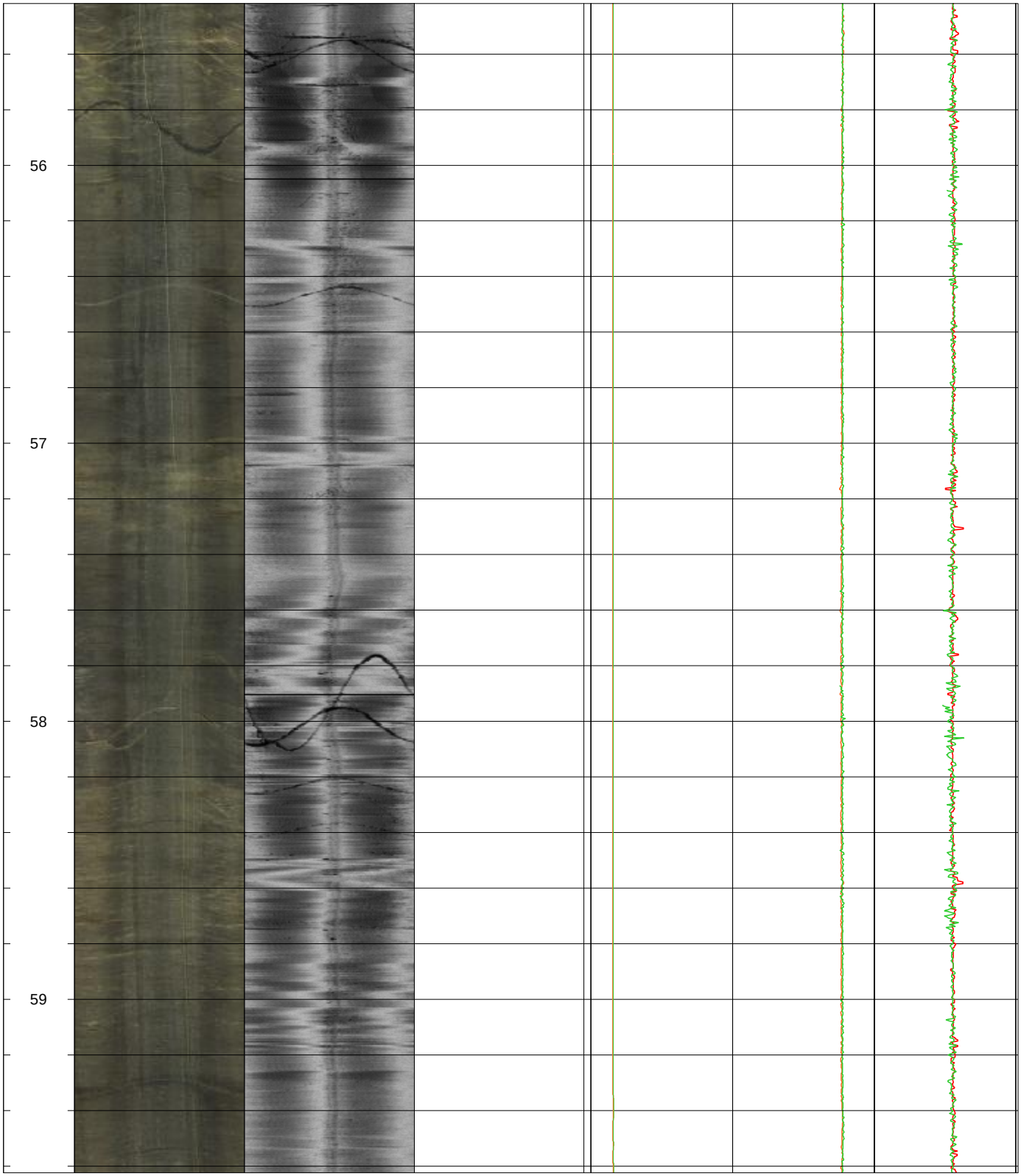

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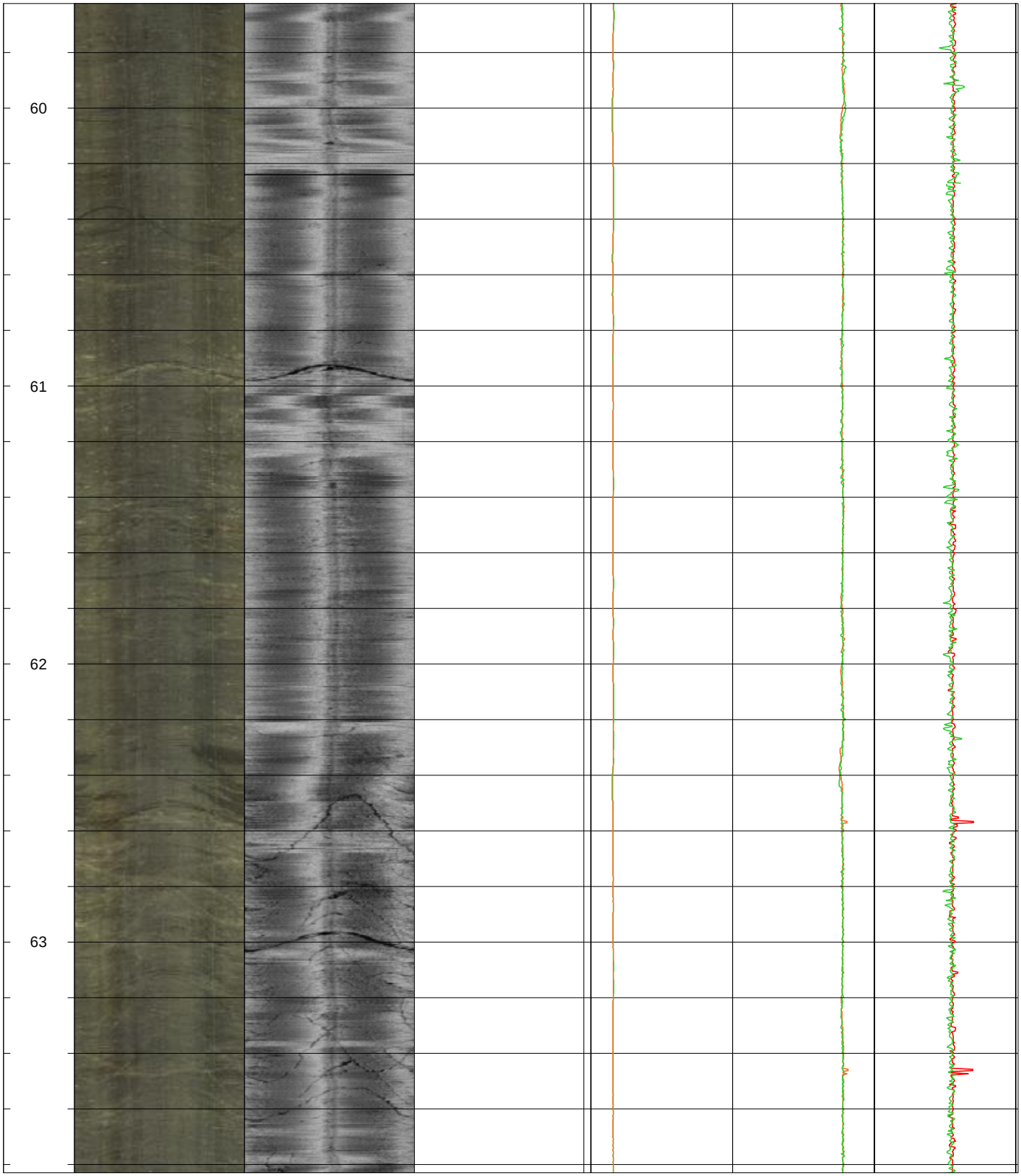

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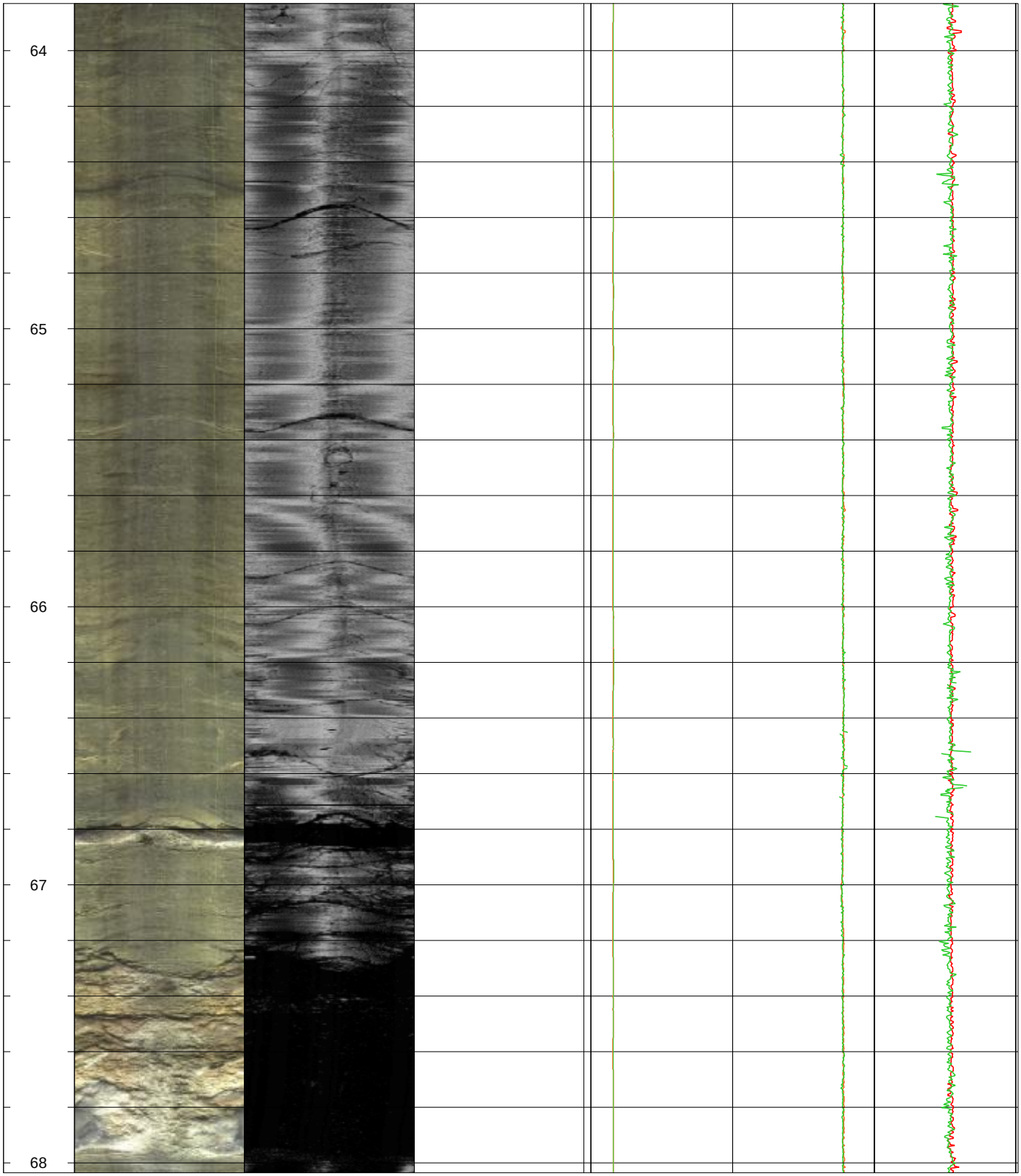

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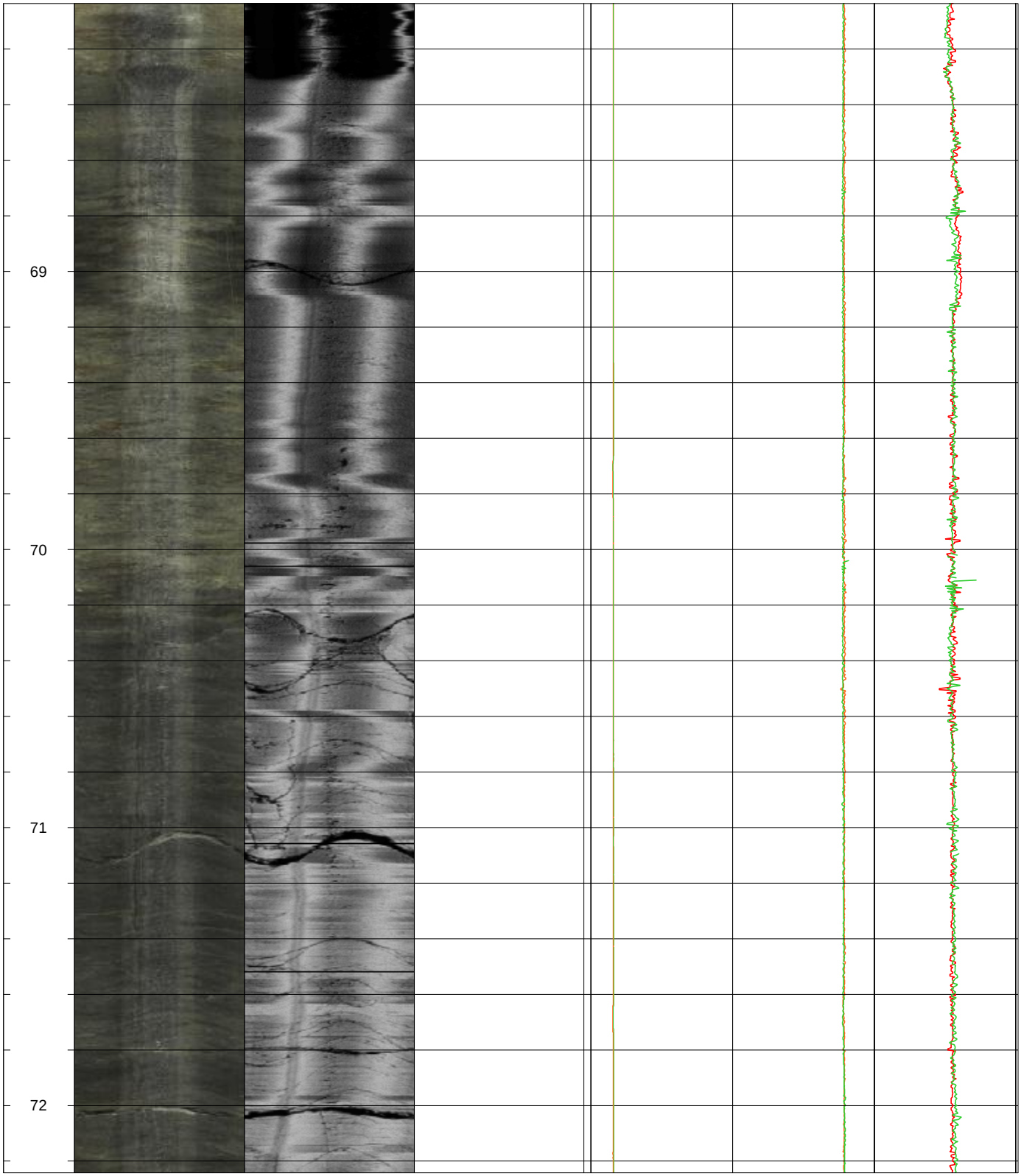

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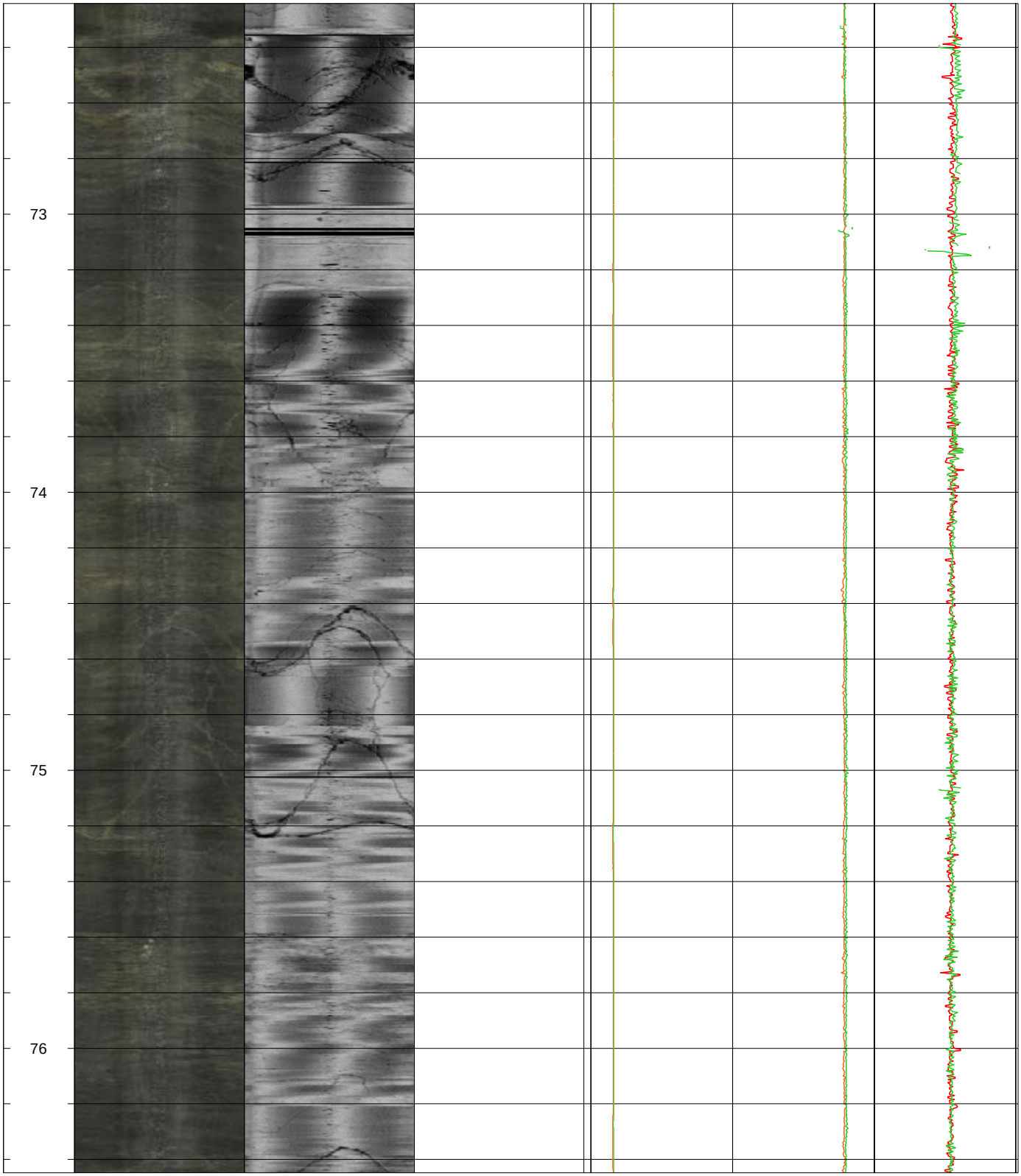

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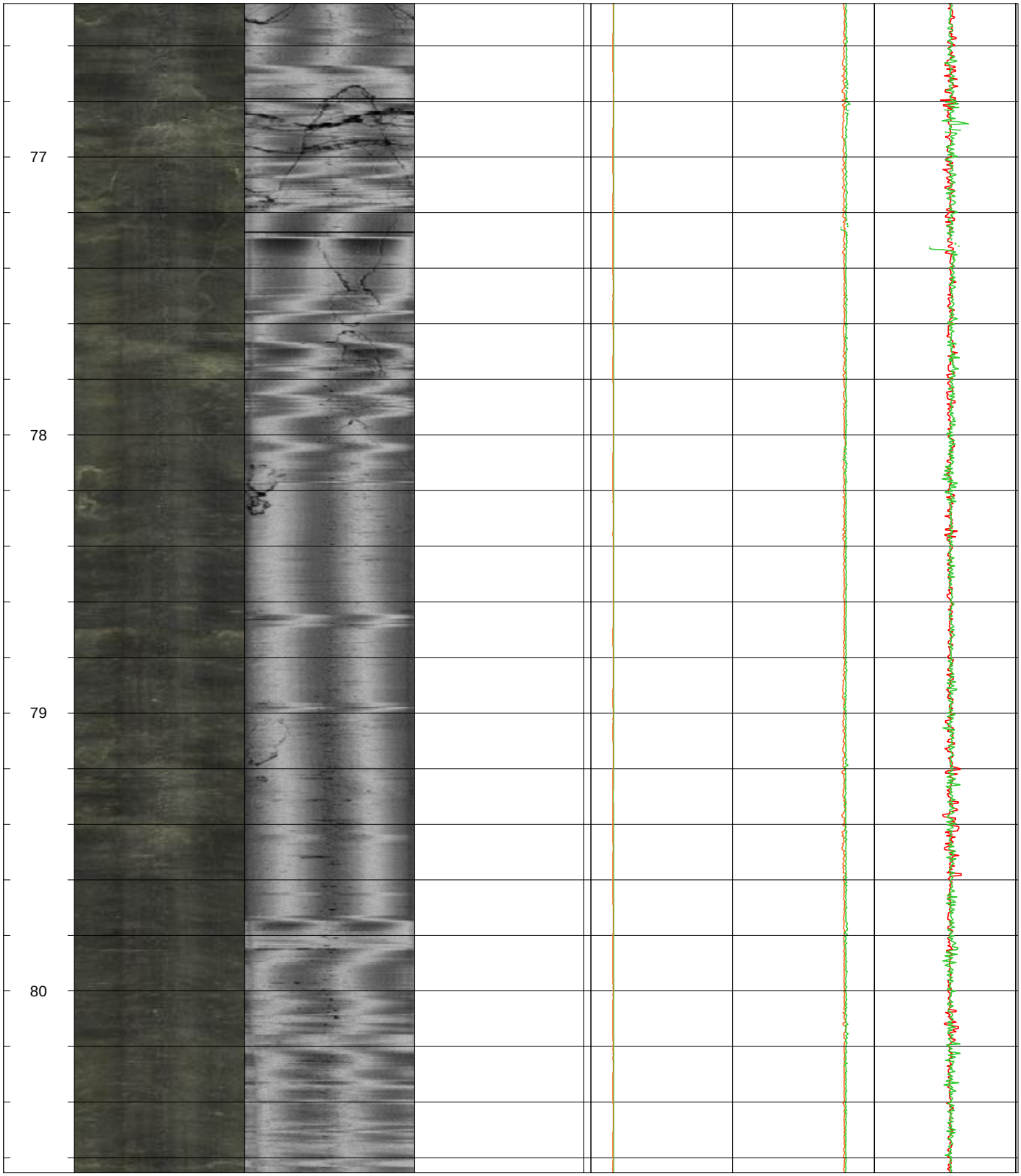

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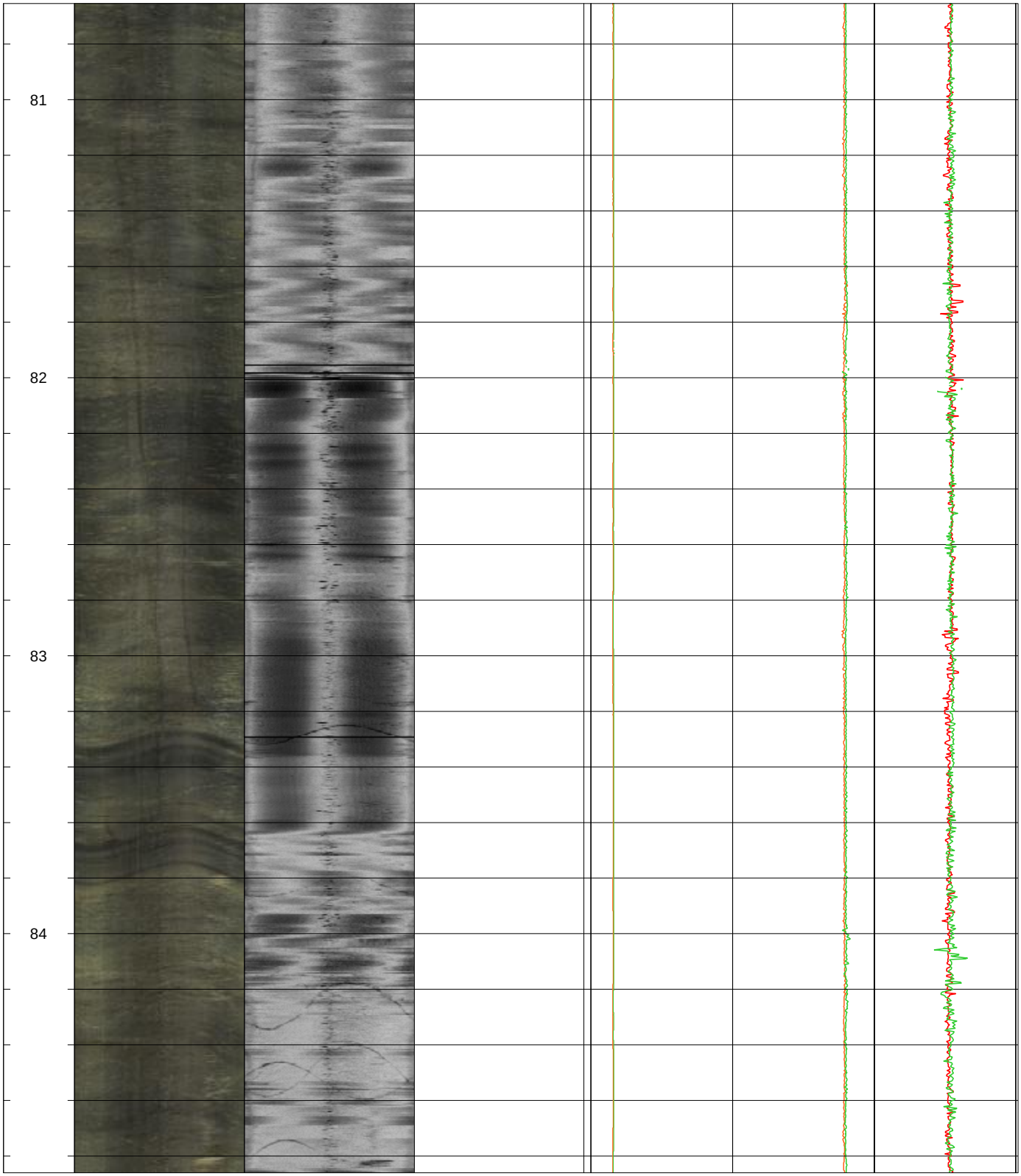

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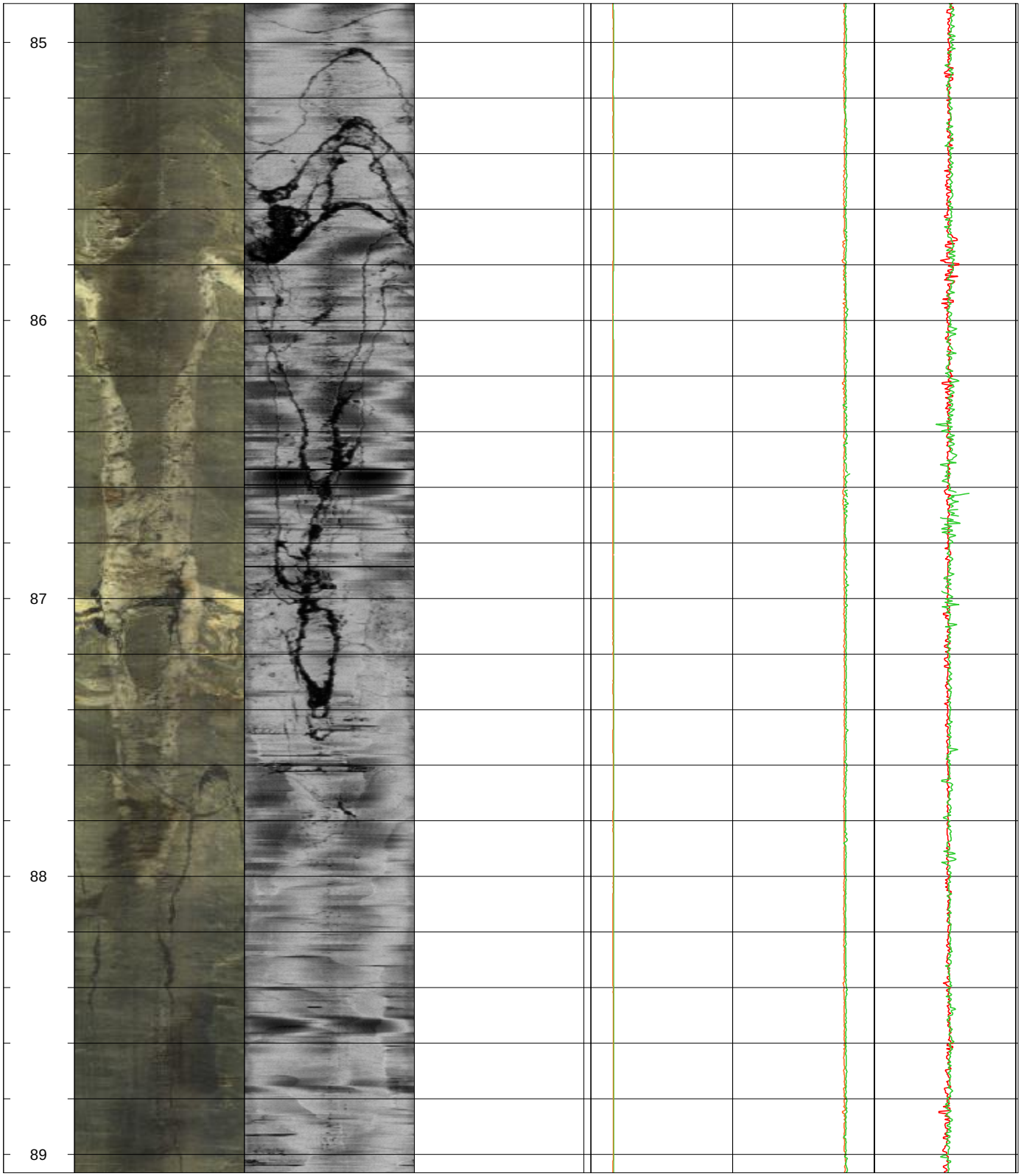

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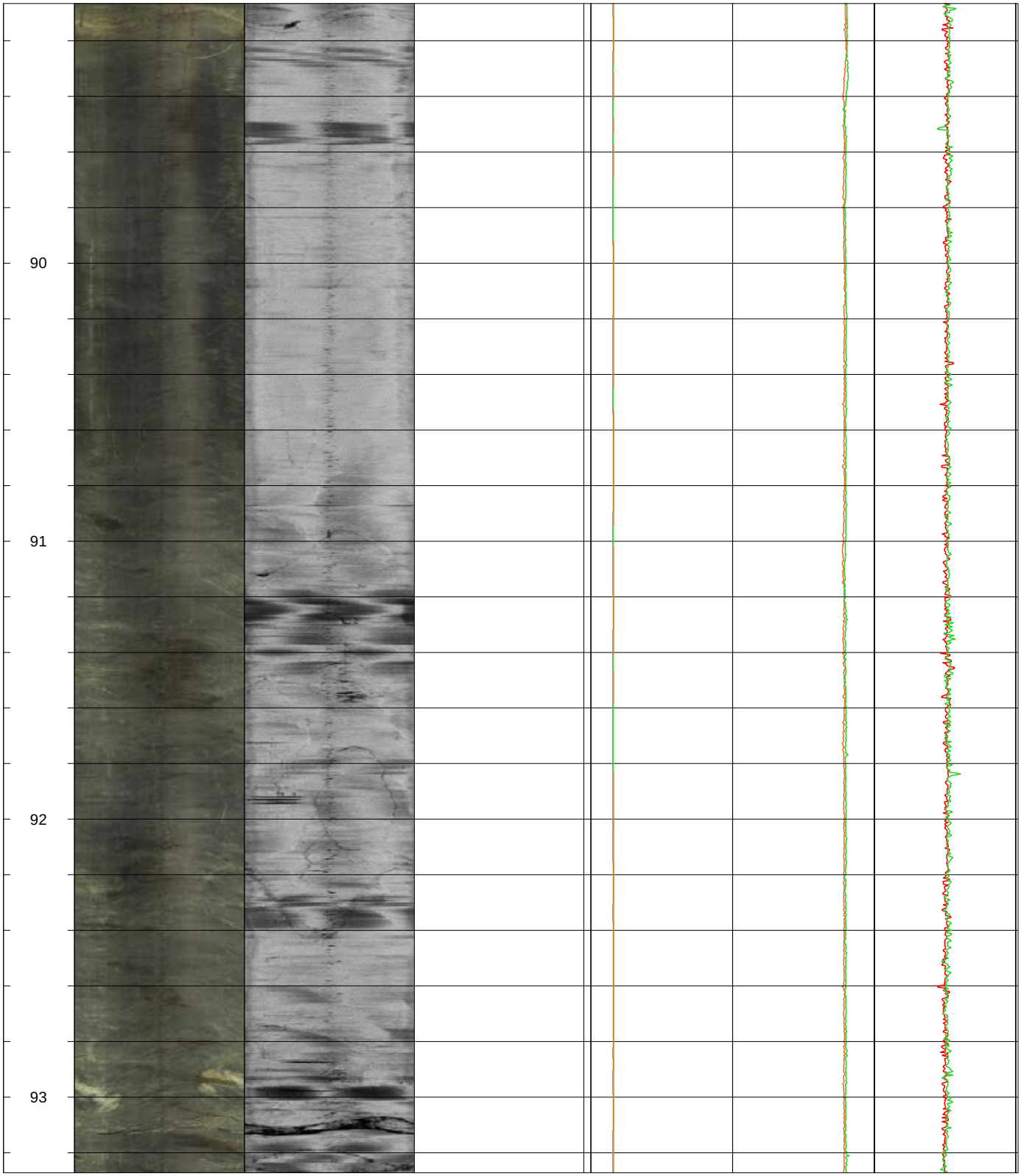

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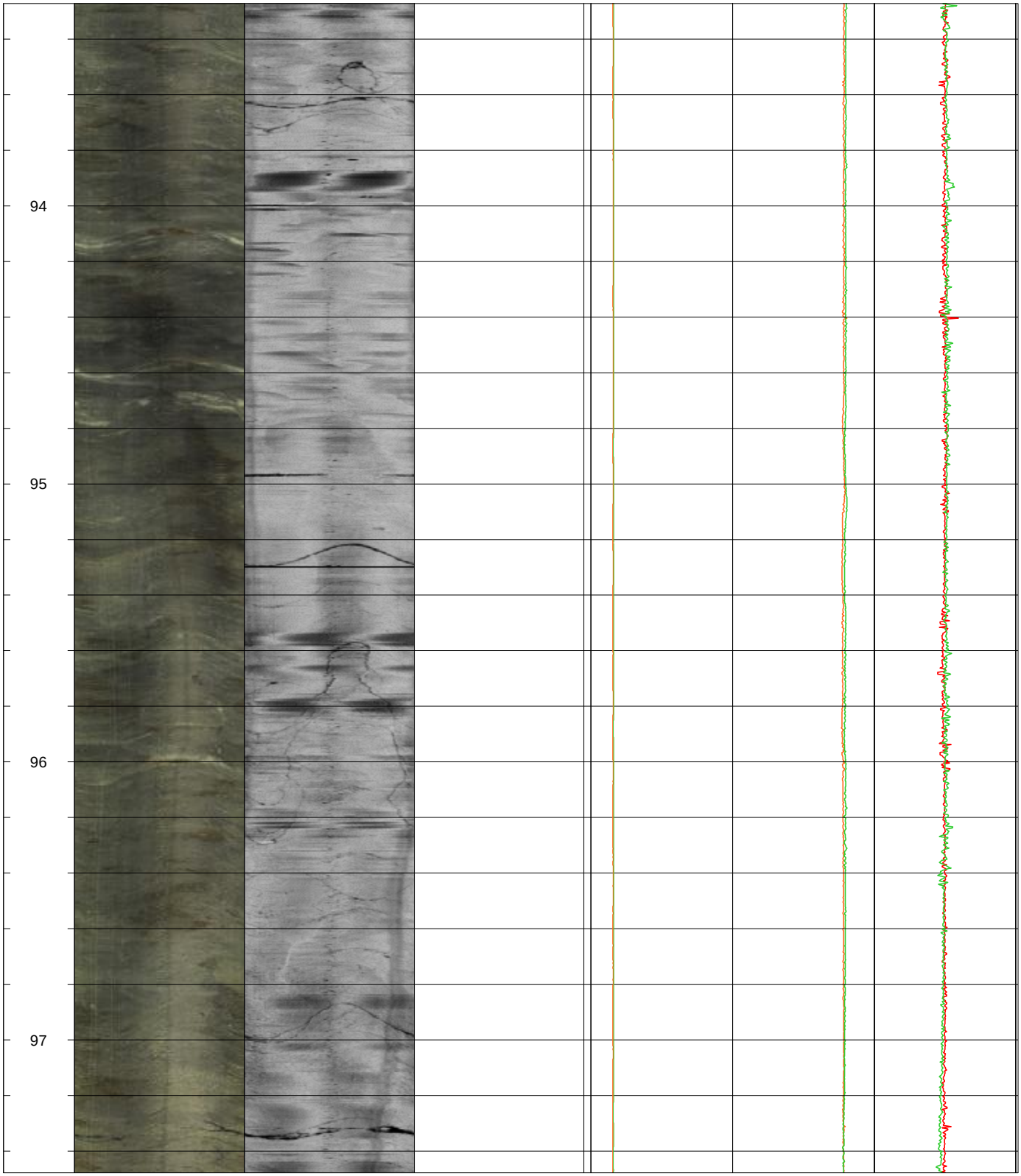

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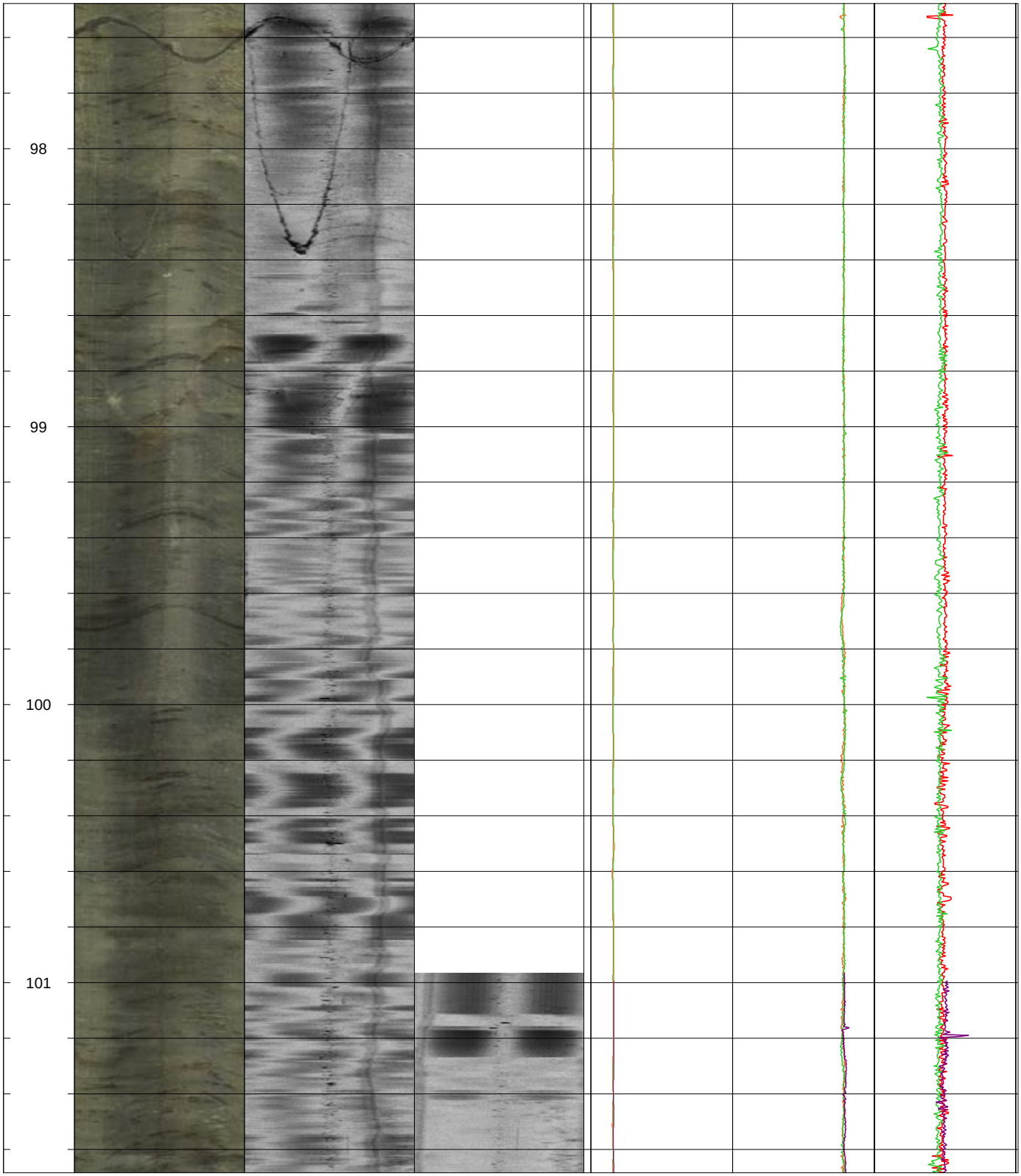

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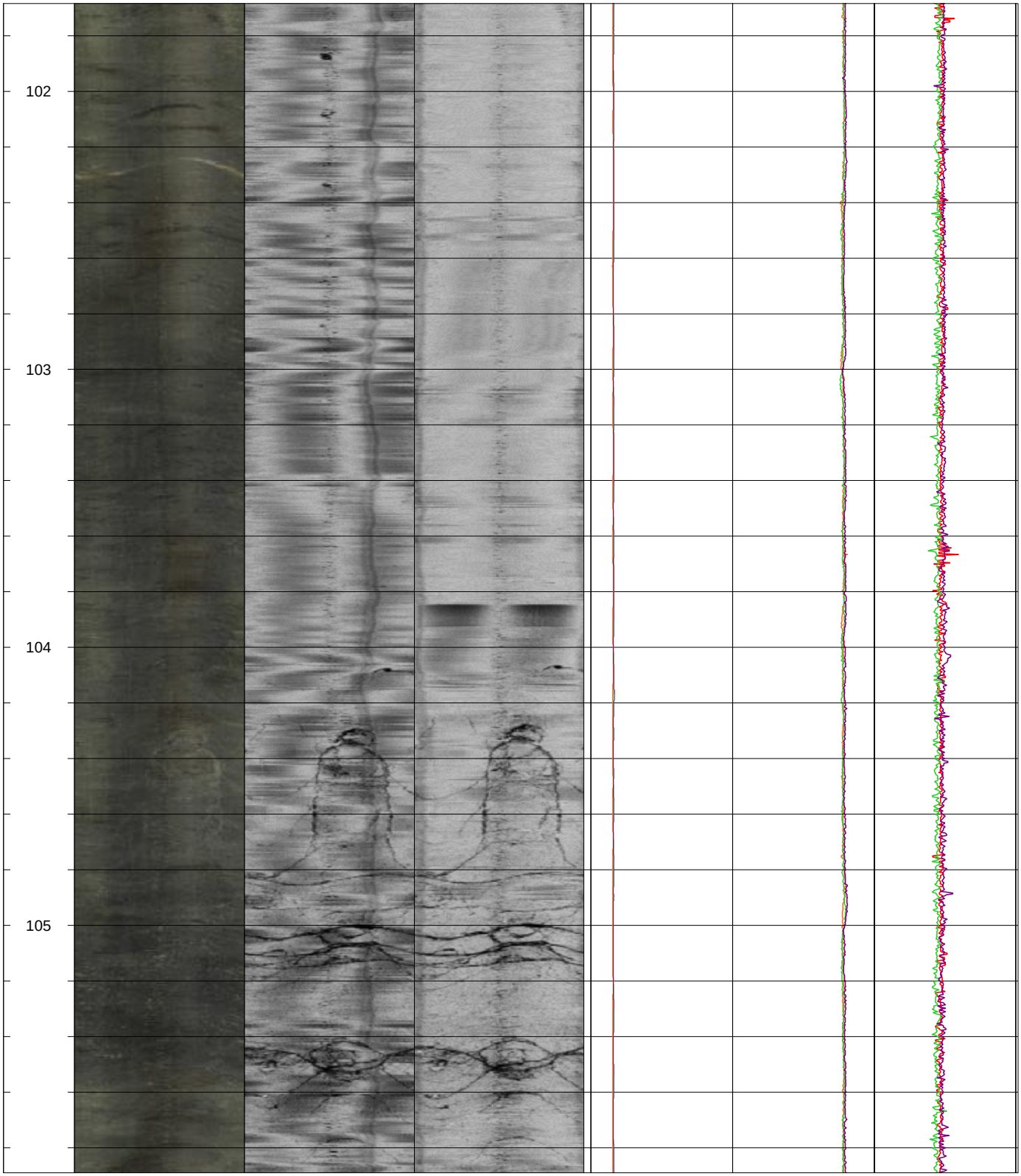

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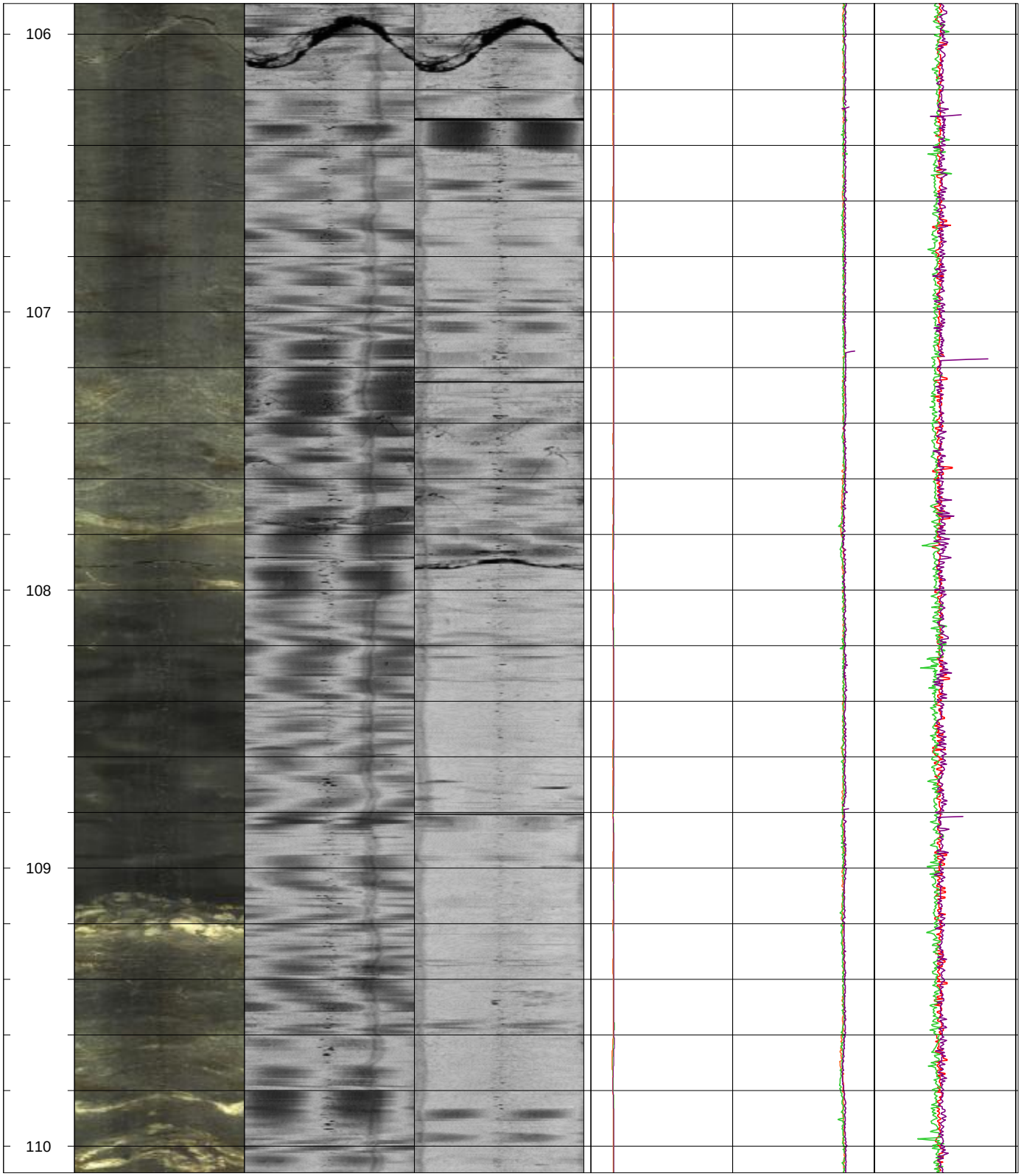

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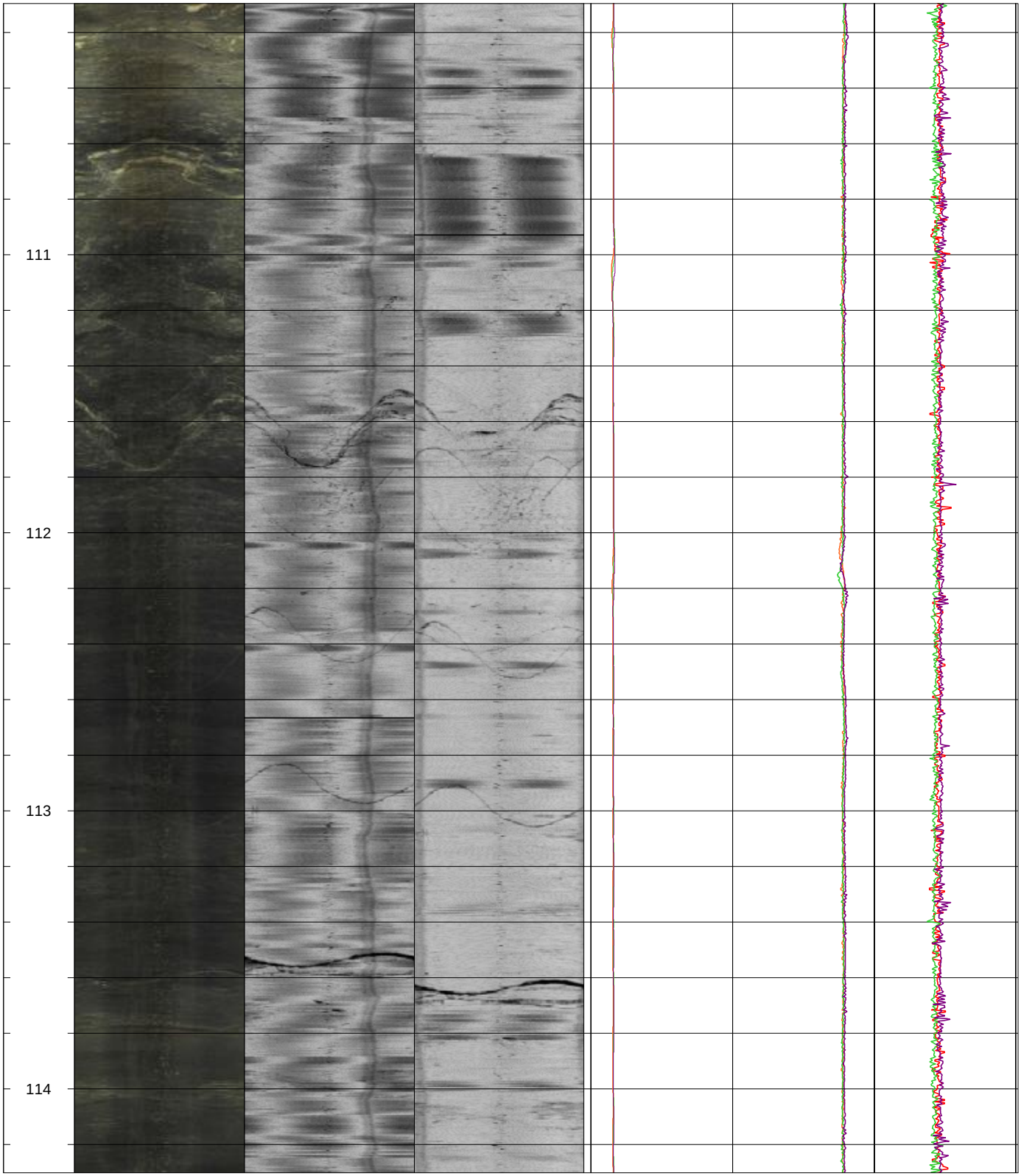

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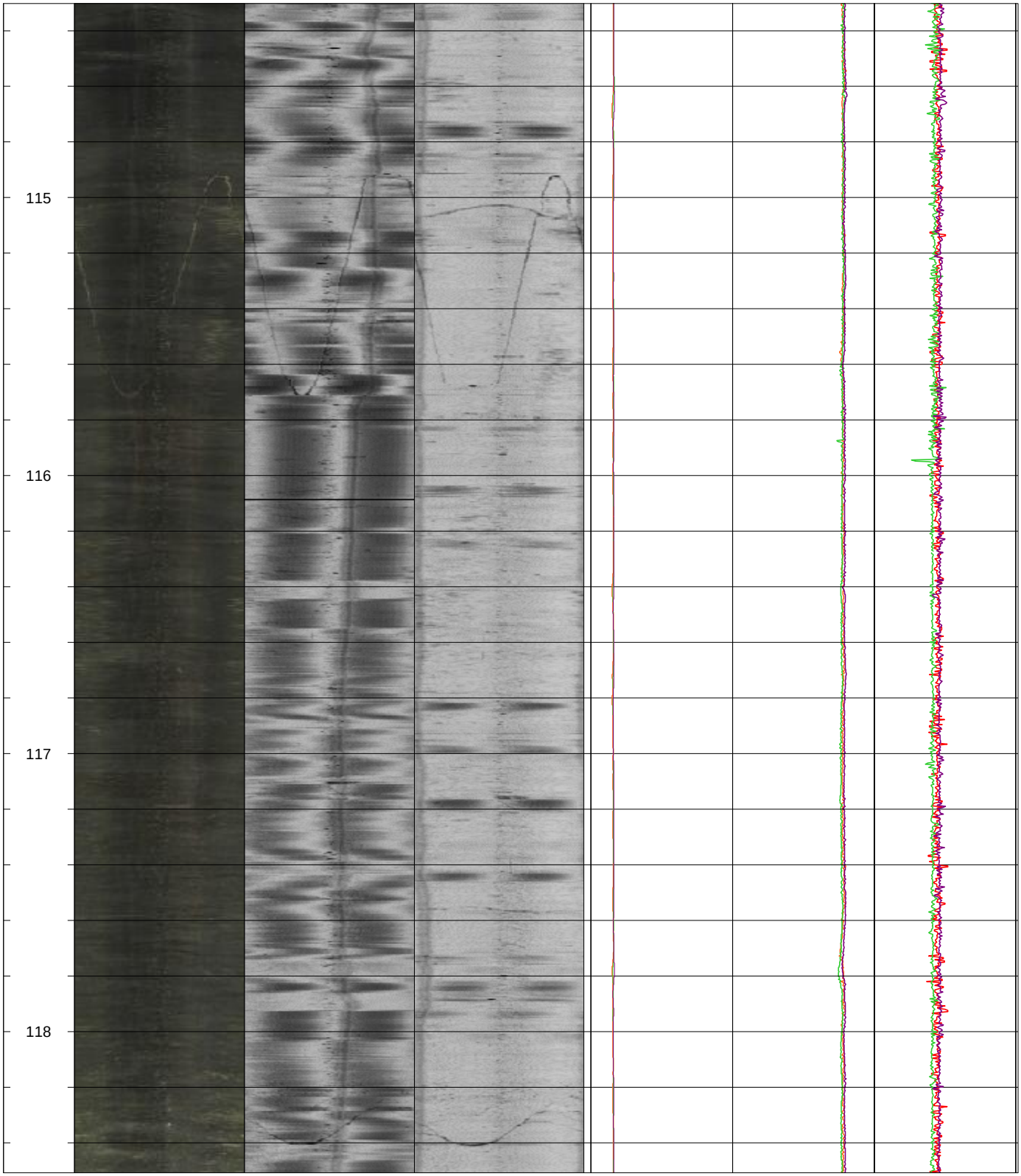

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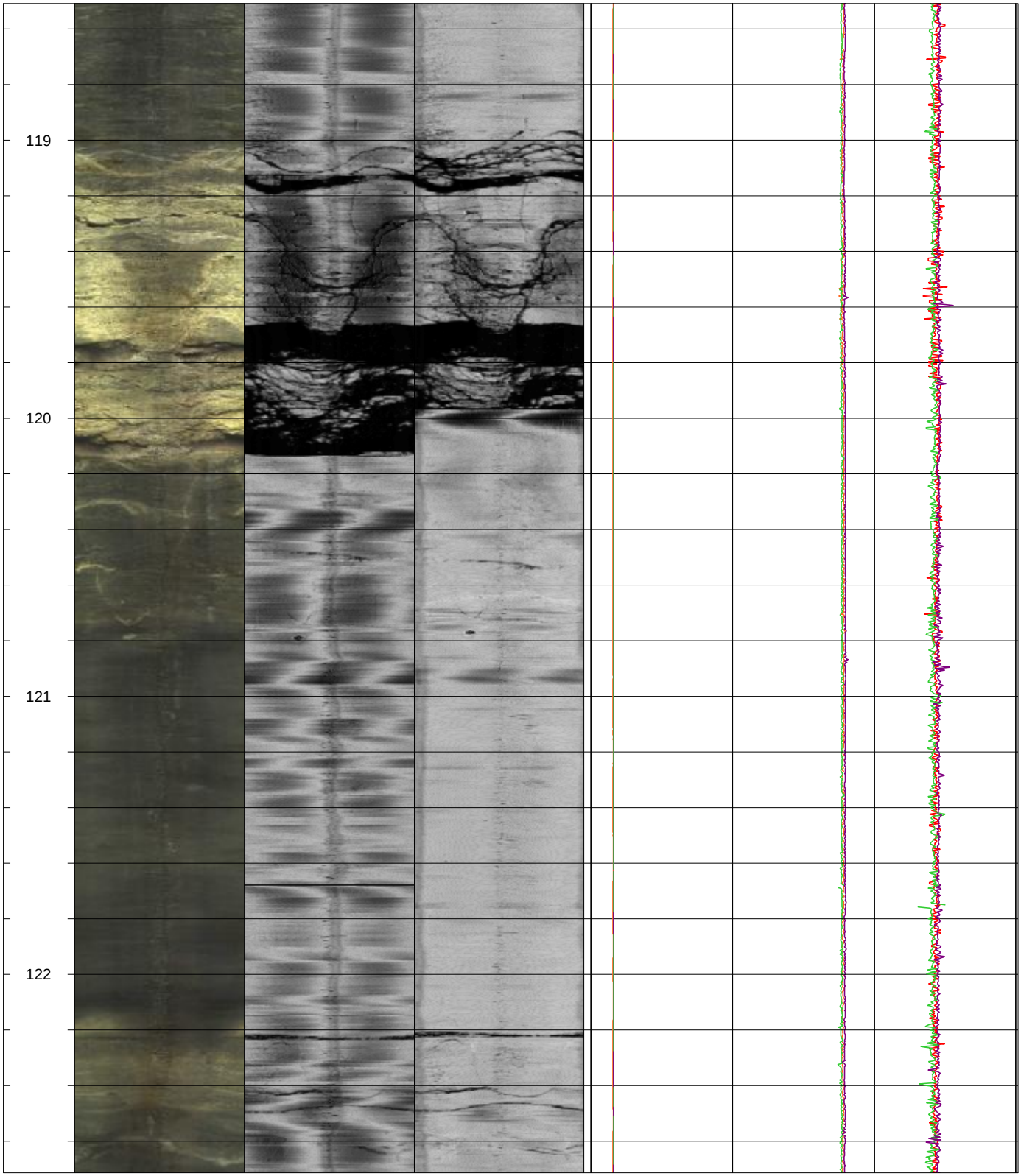

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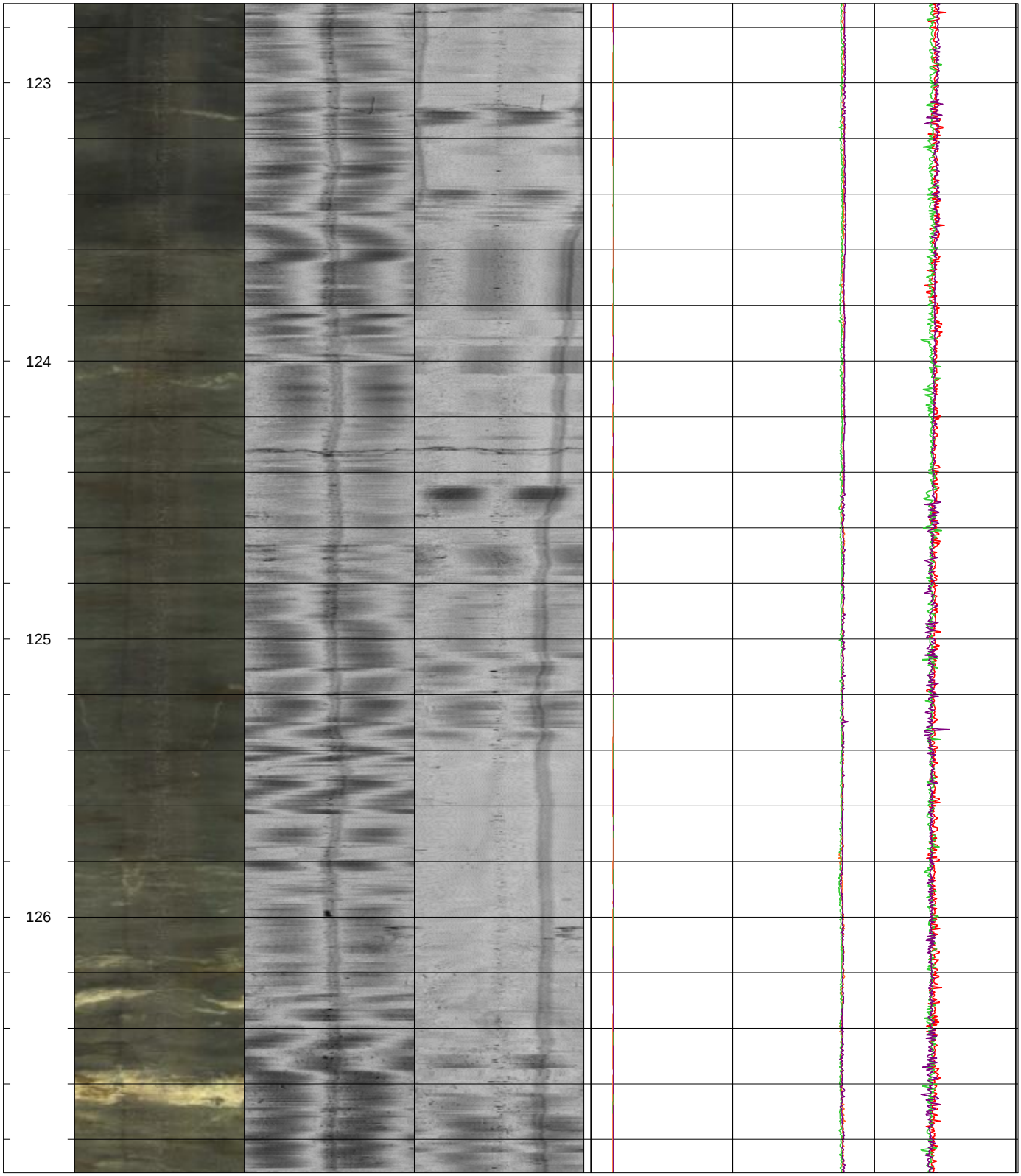

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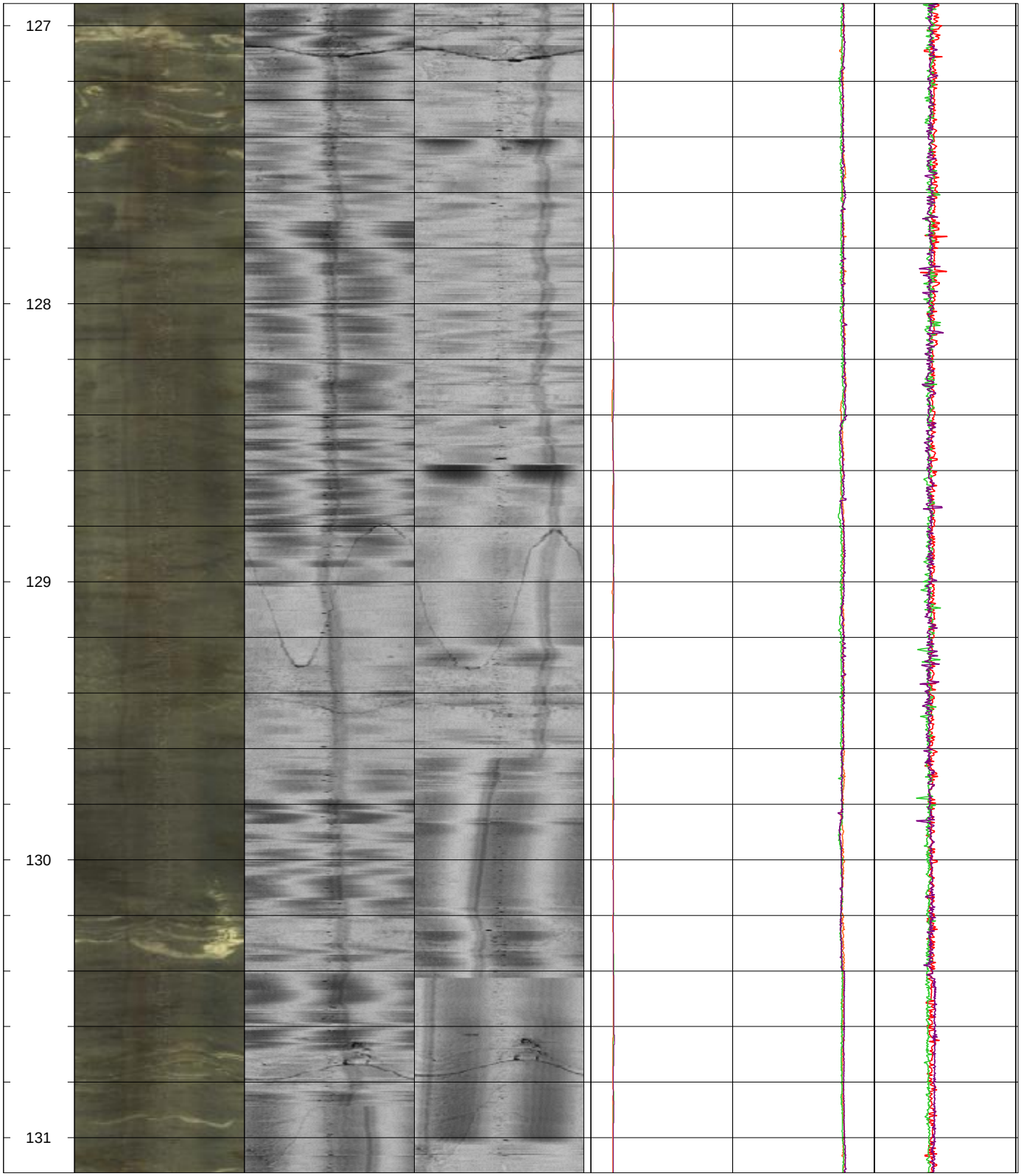

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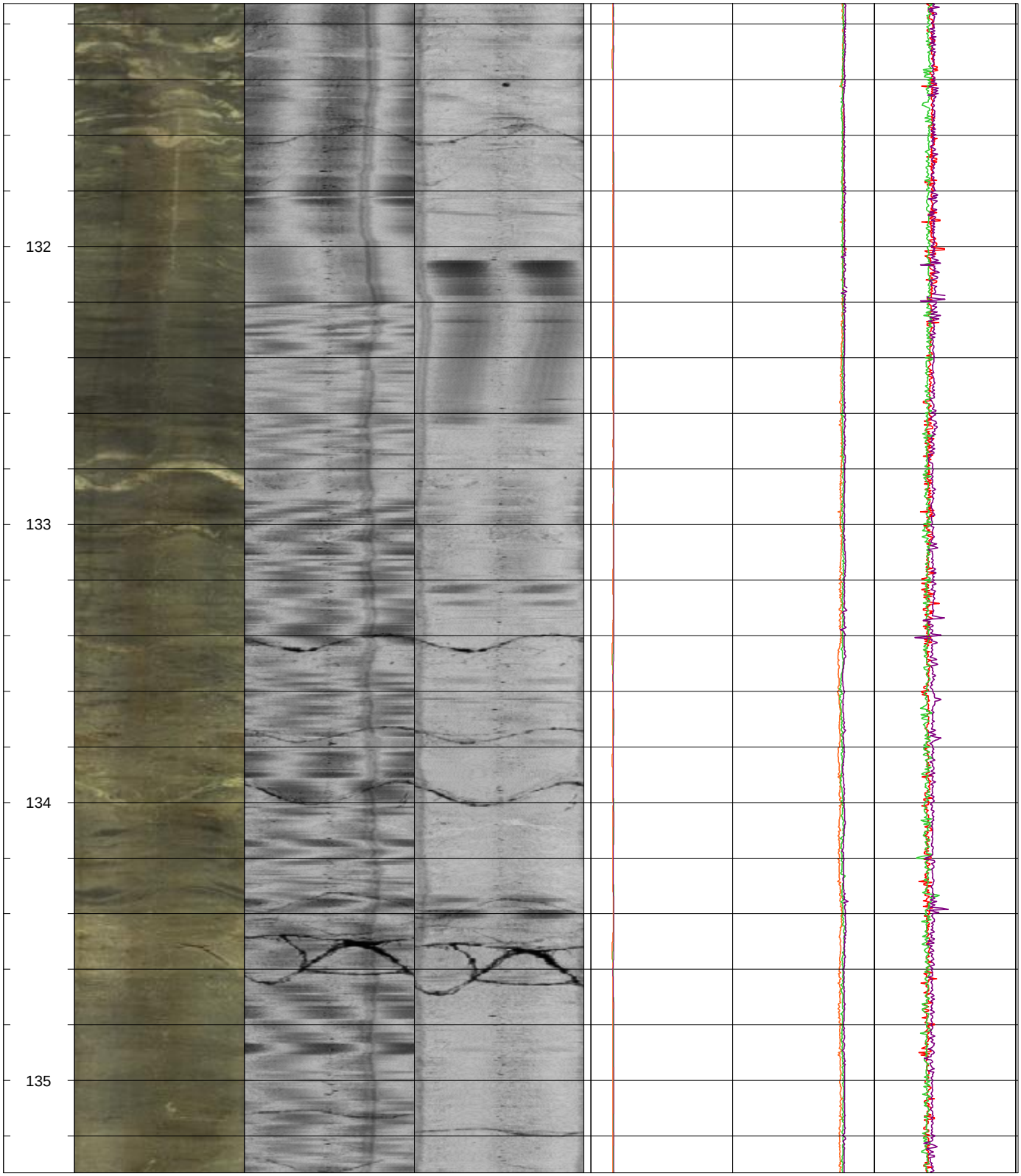

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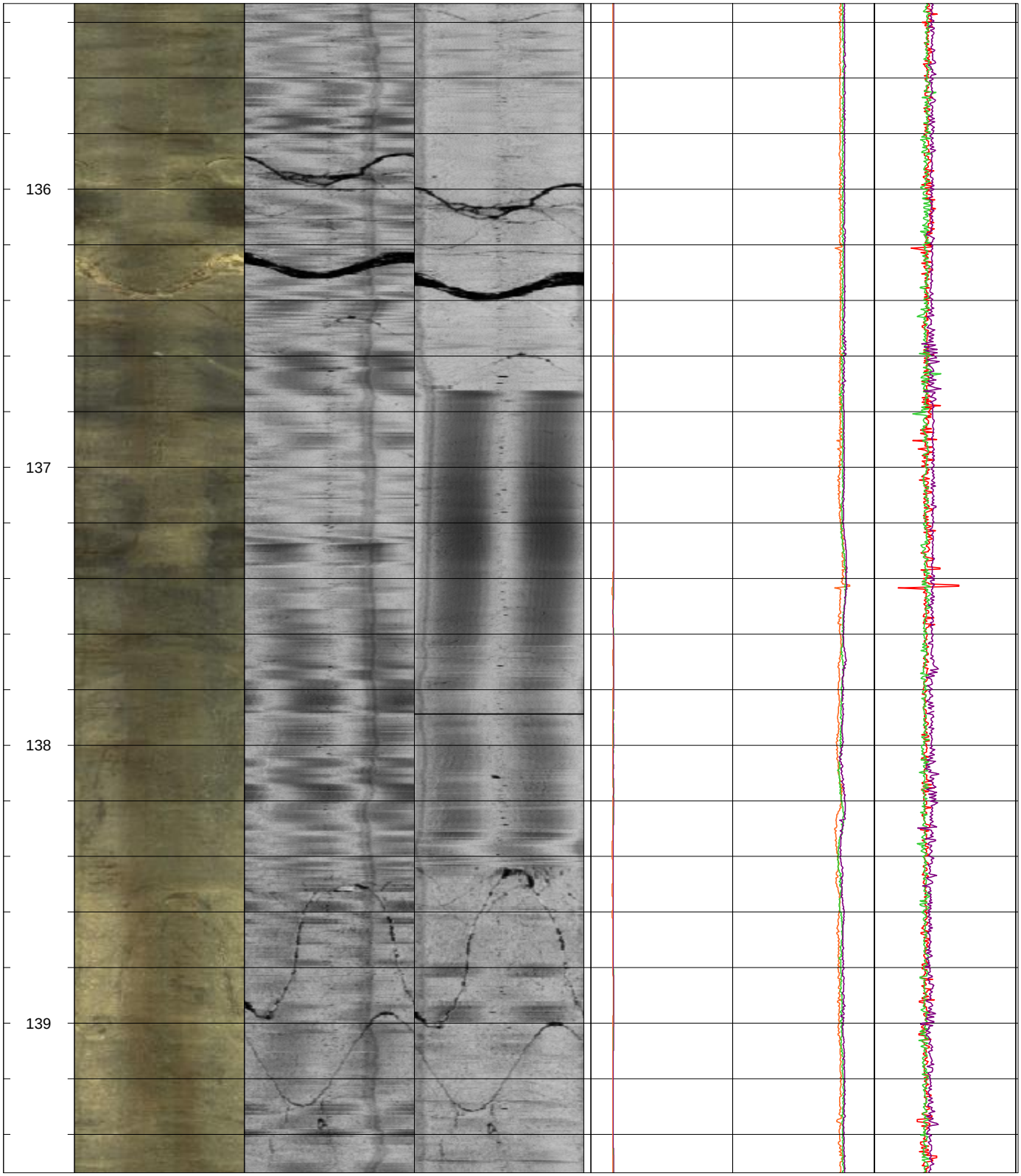

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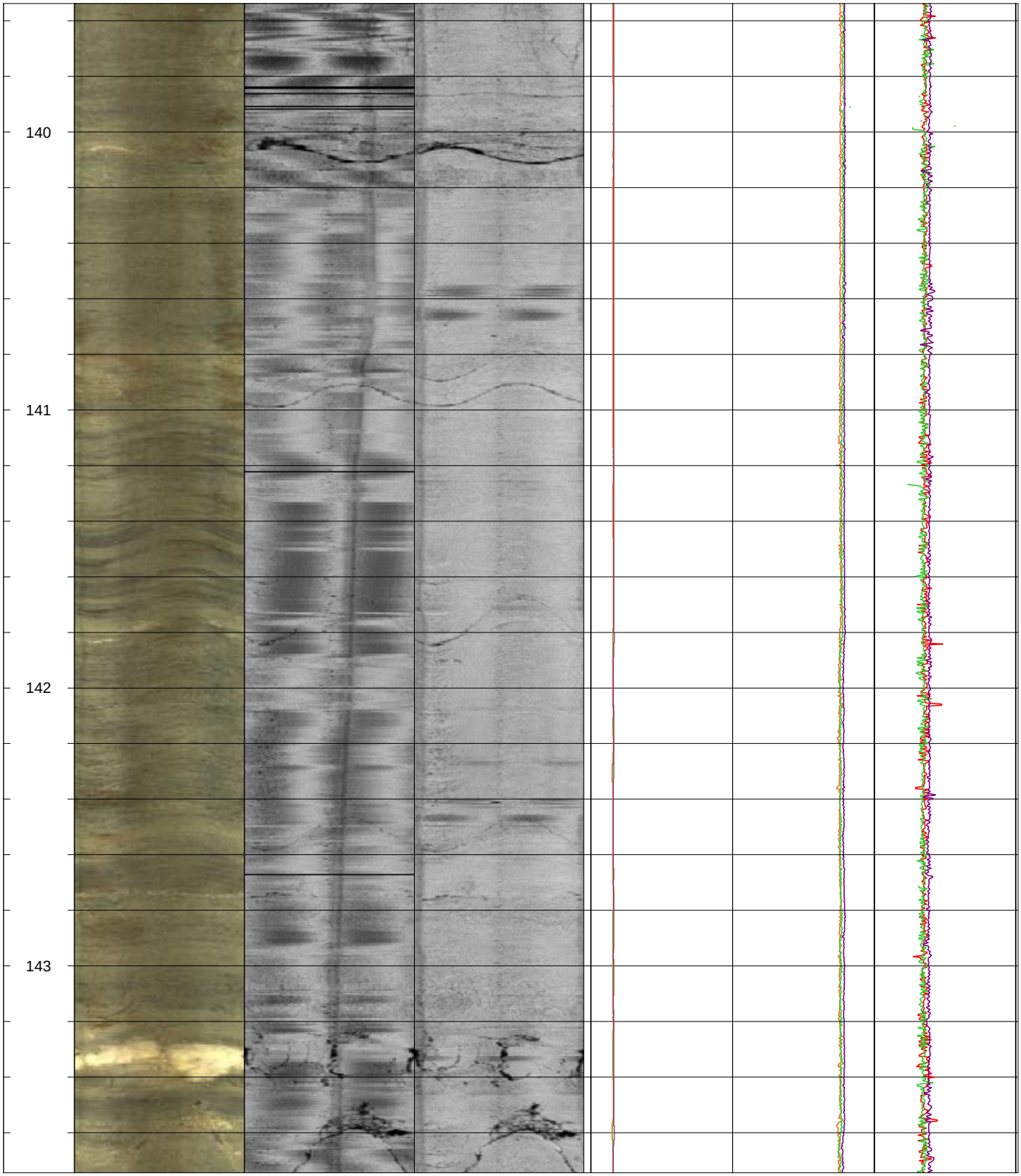

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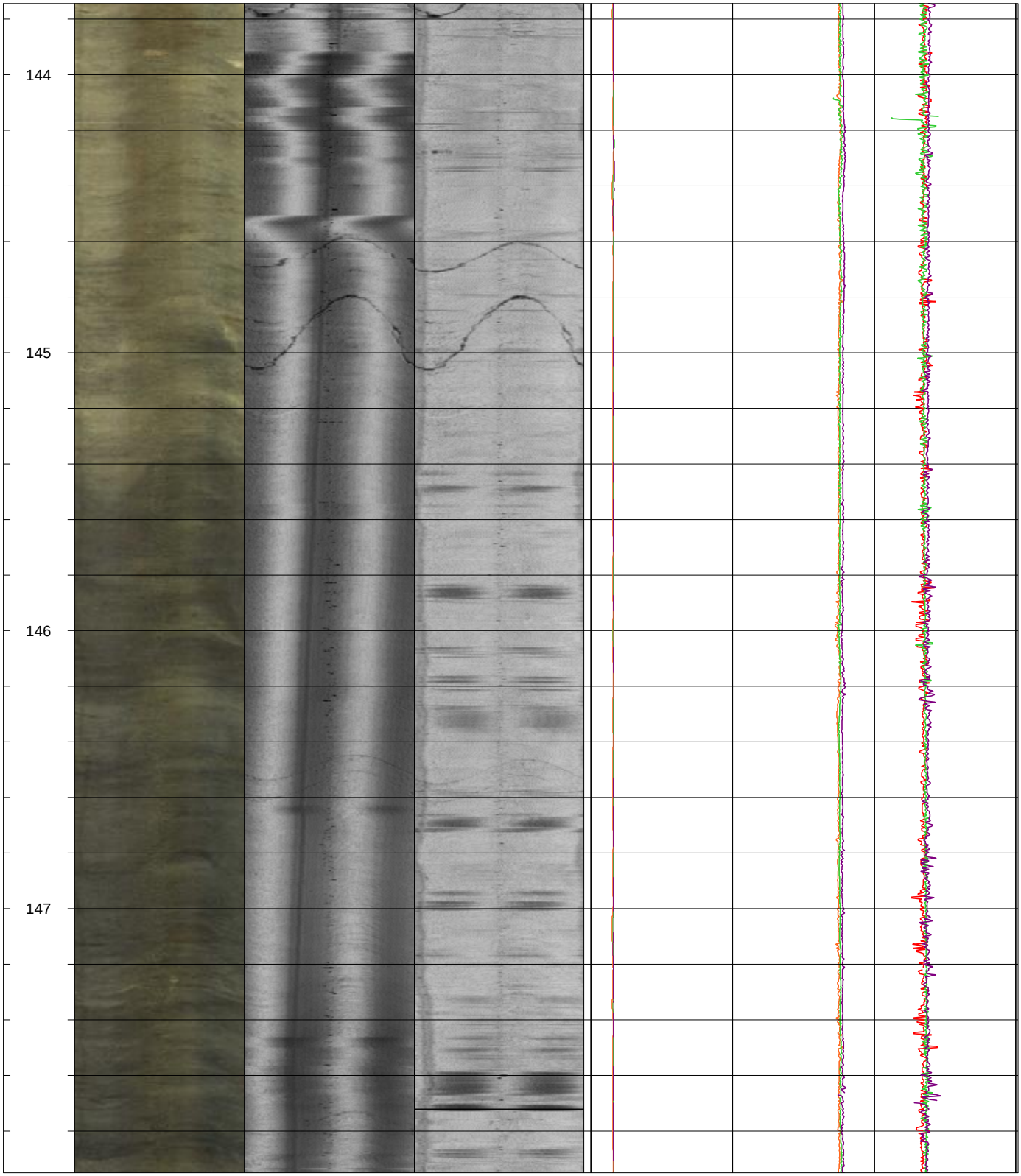

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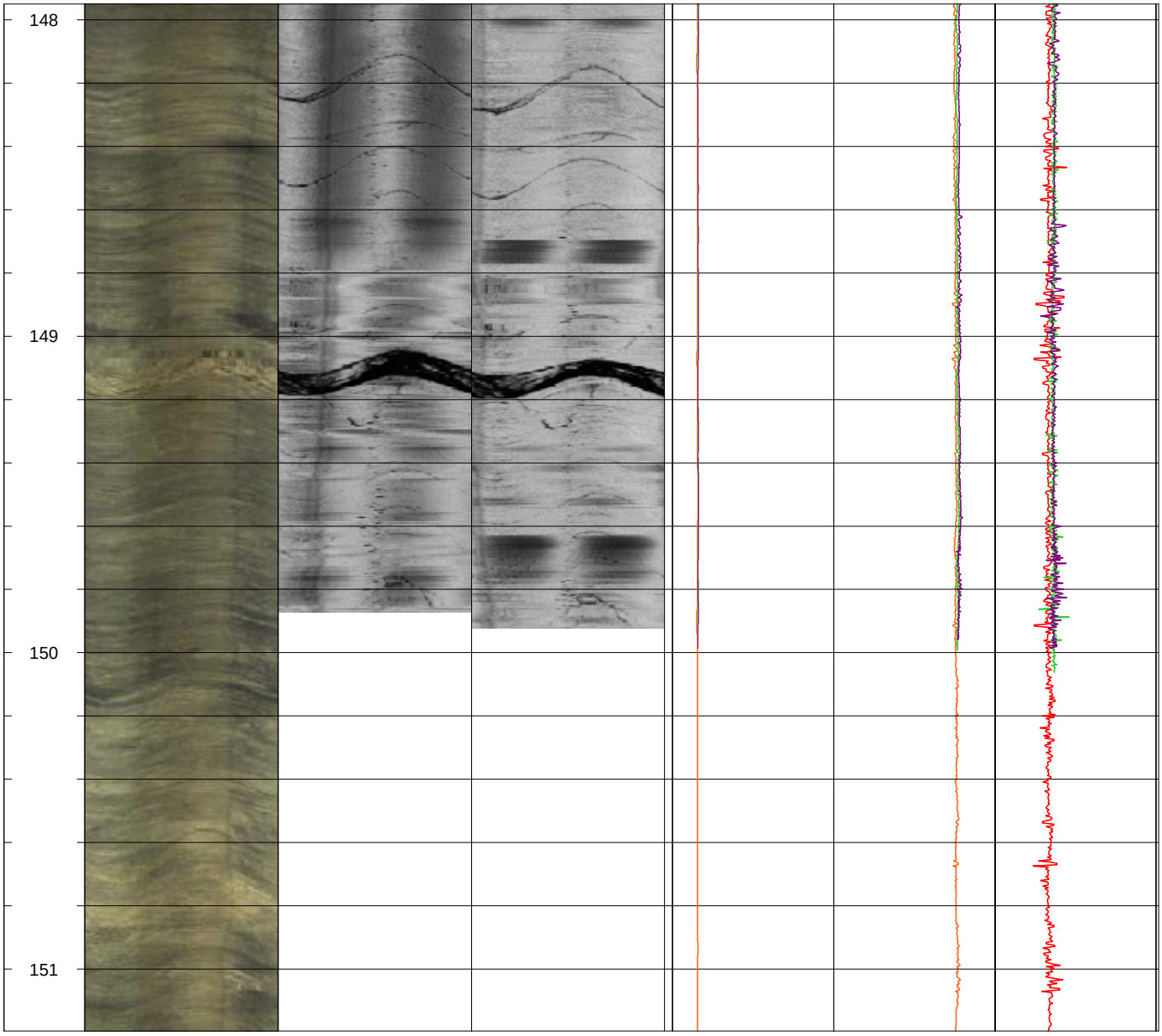

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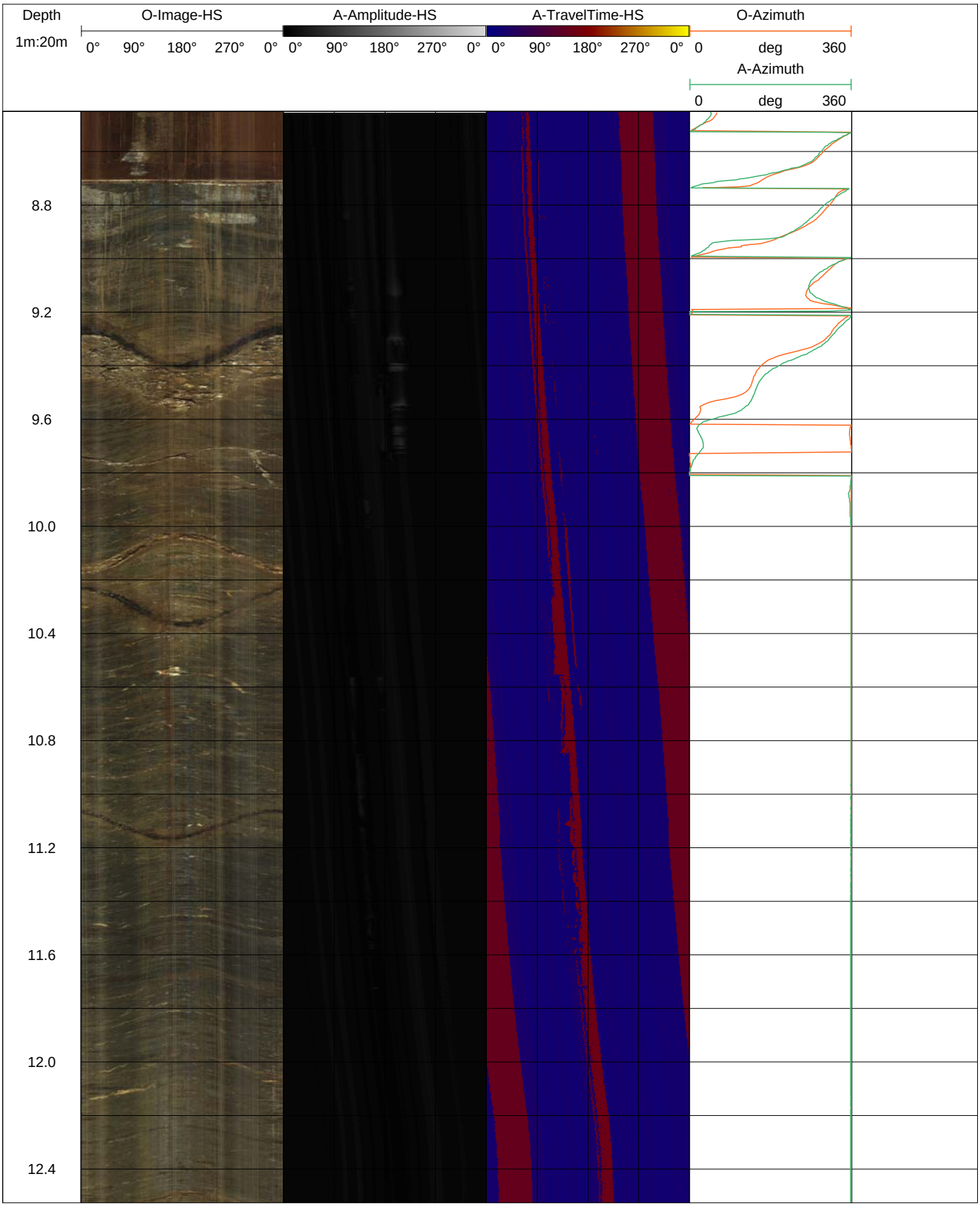
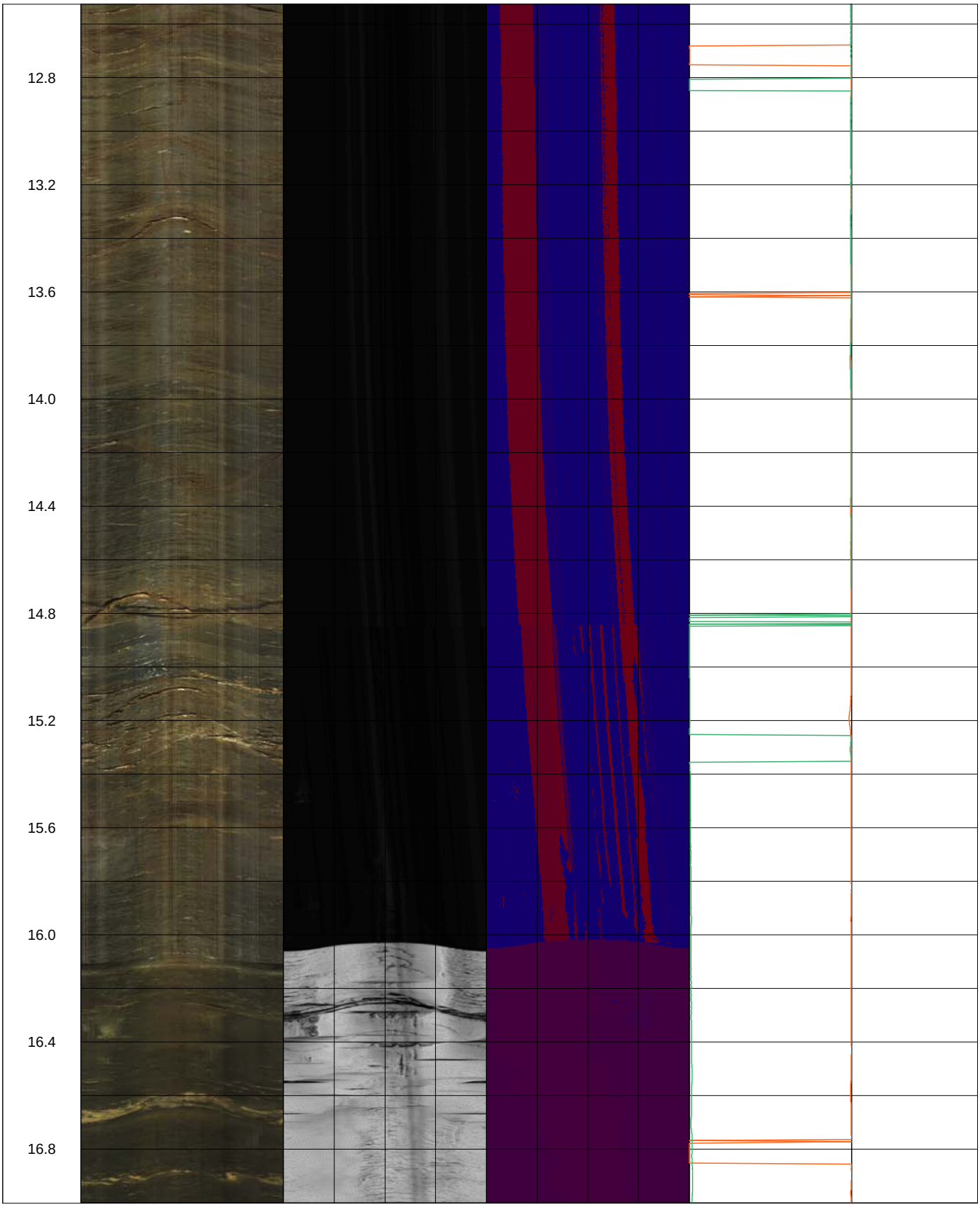
K17-430 Opictal & Acoustic Televiewer Survey



K17-430 Opictal & Acoustic Televiewer Survey Cont.



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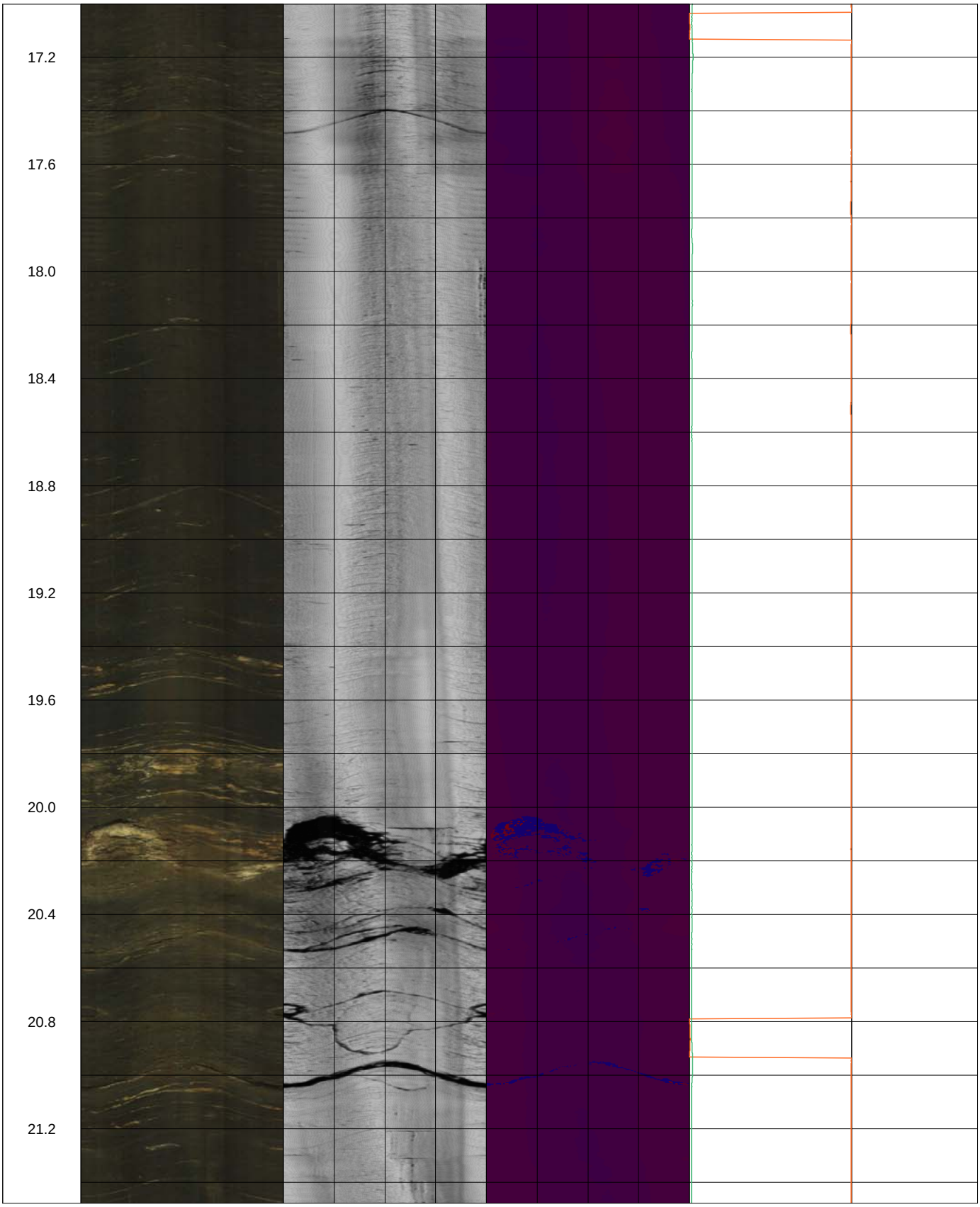

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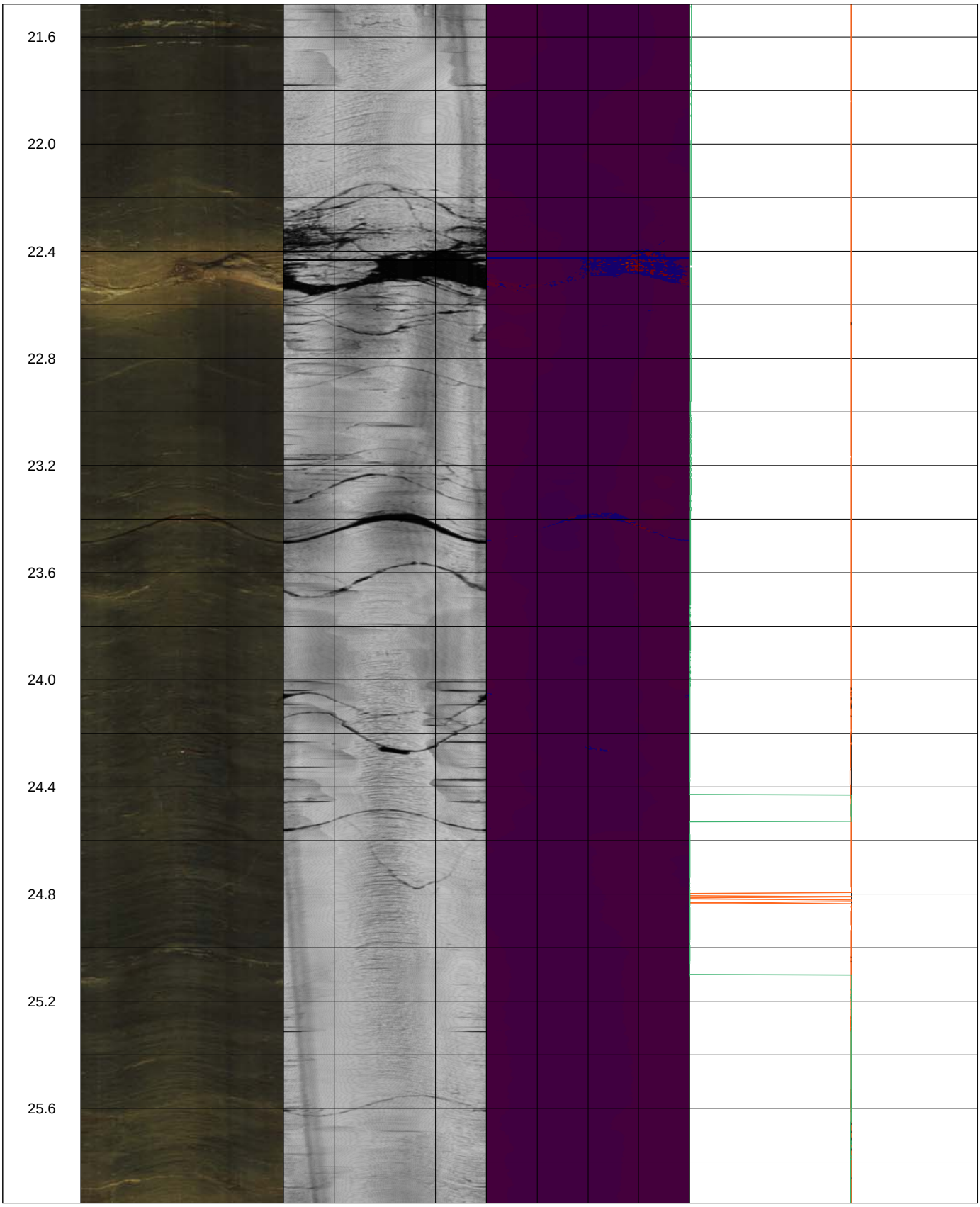

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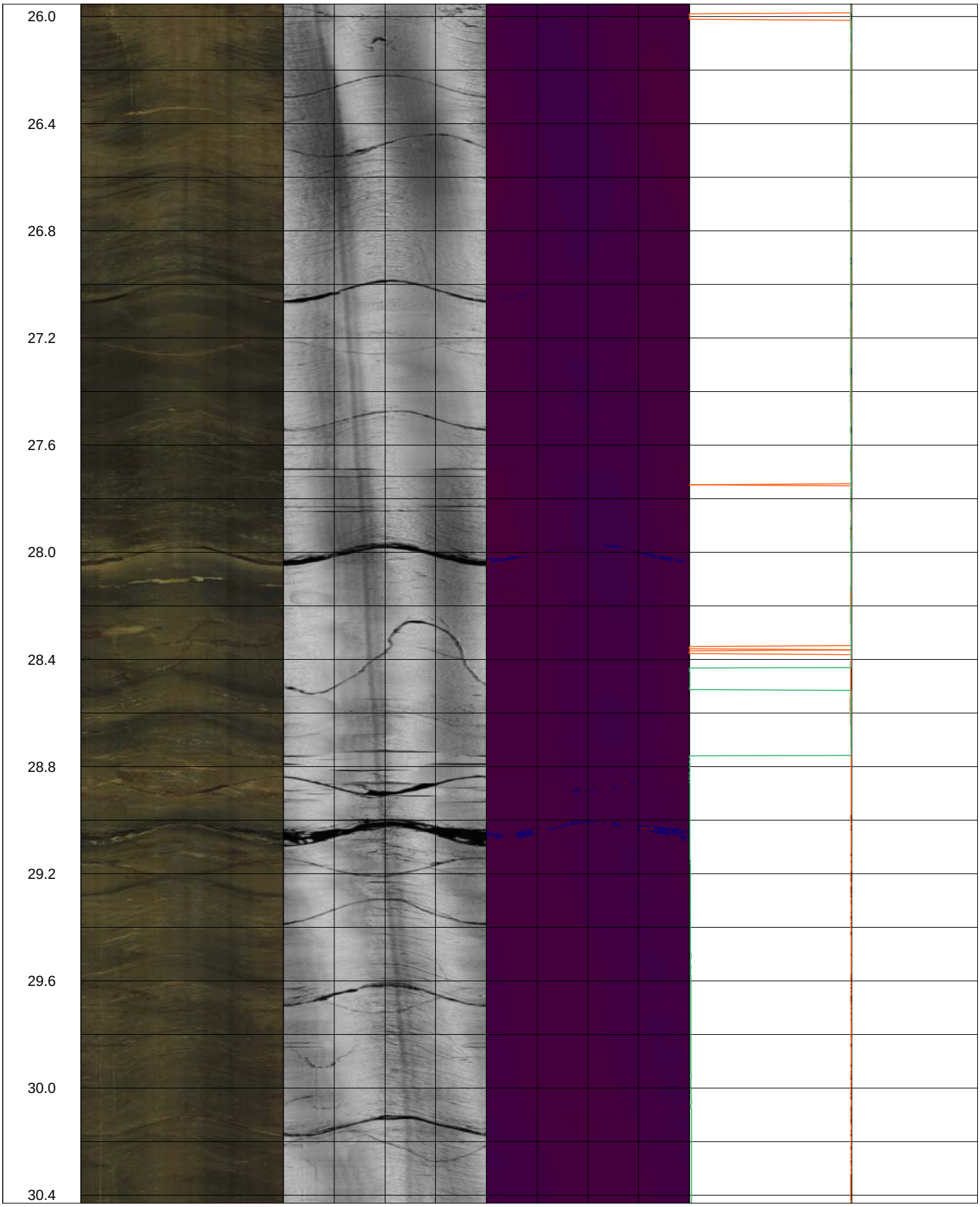

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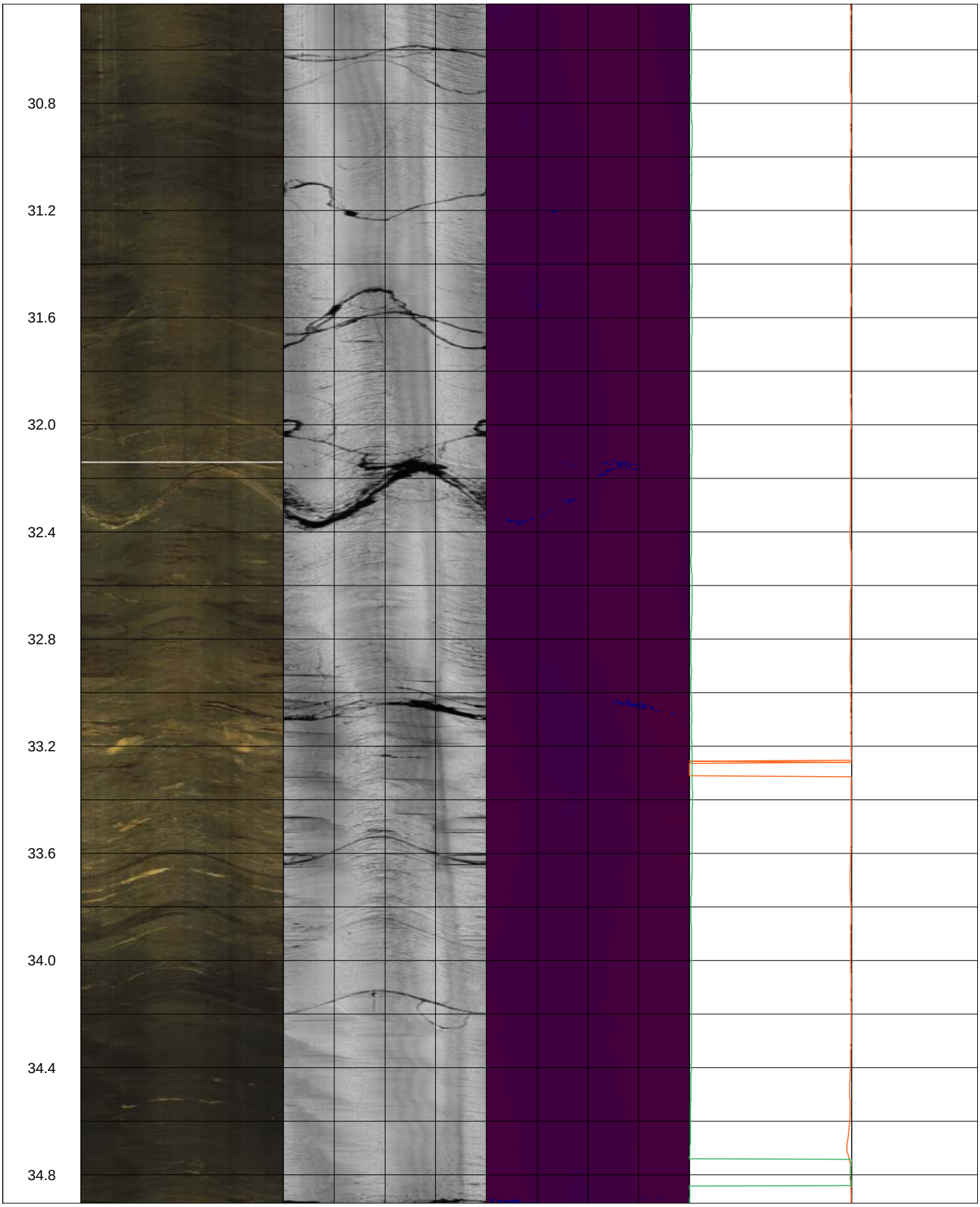

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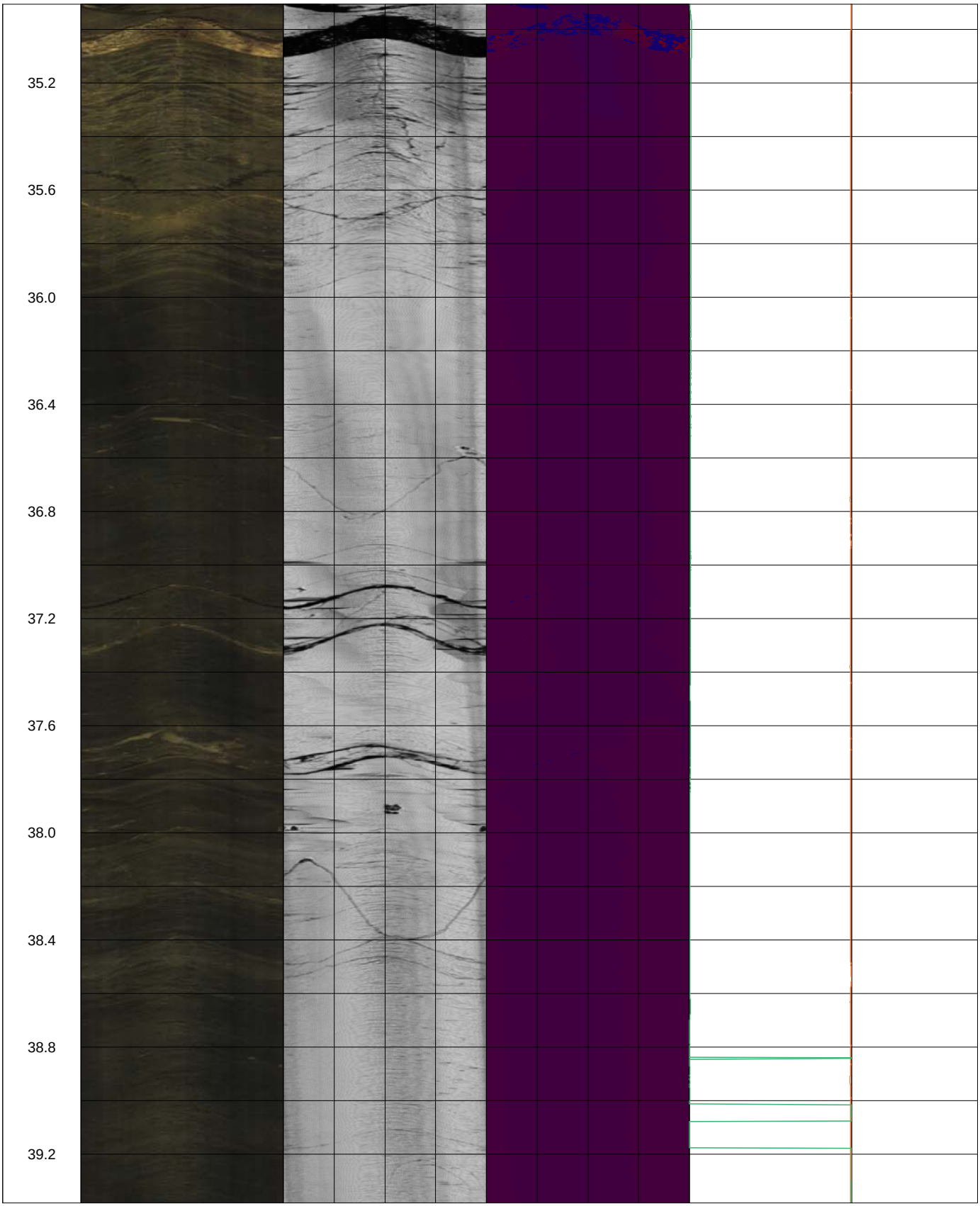

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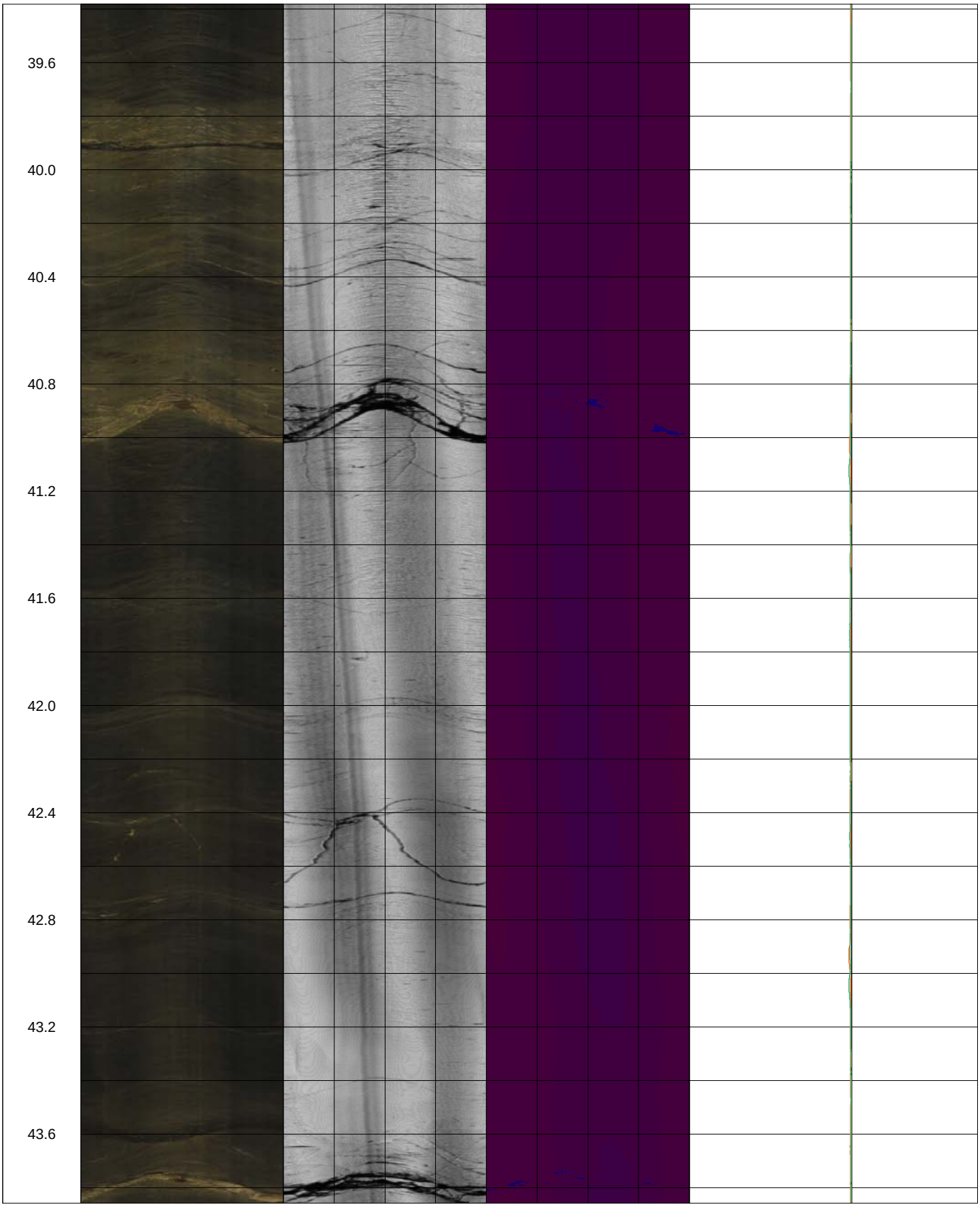

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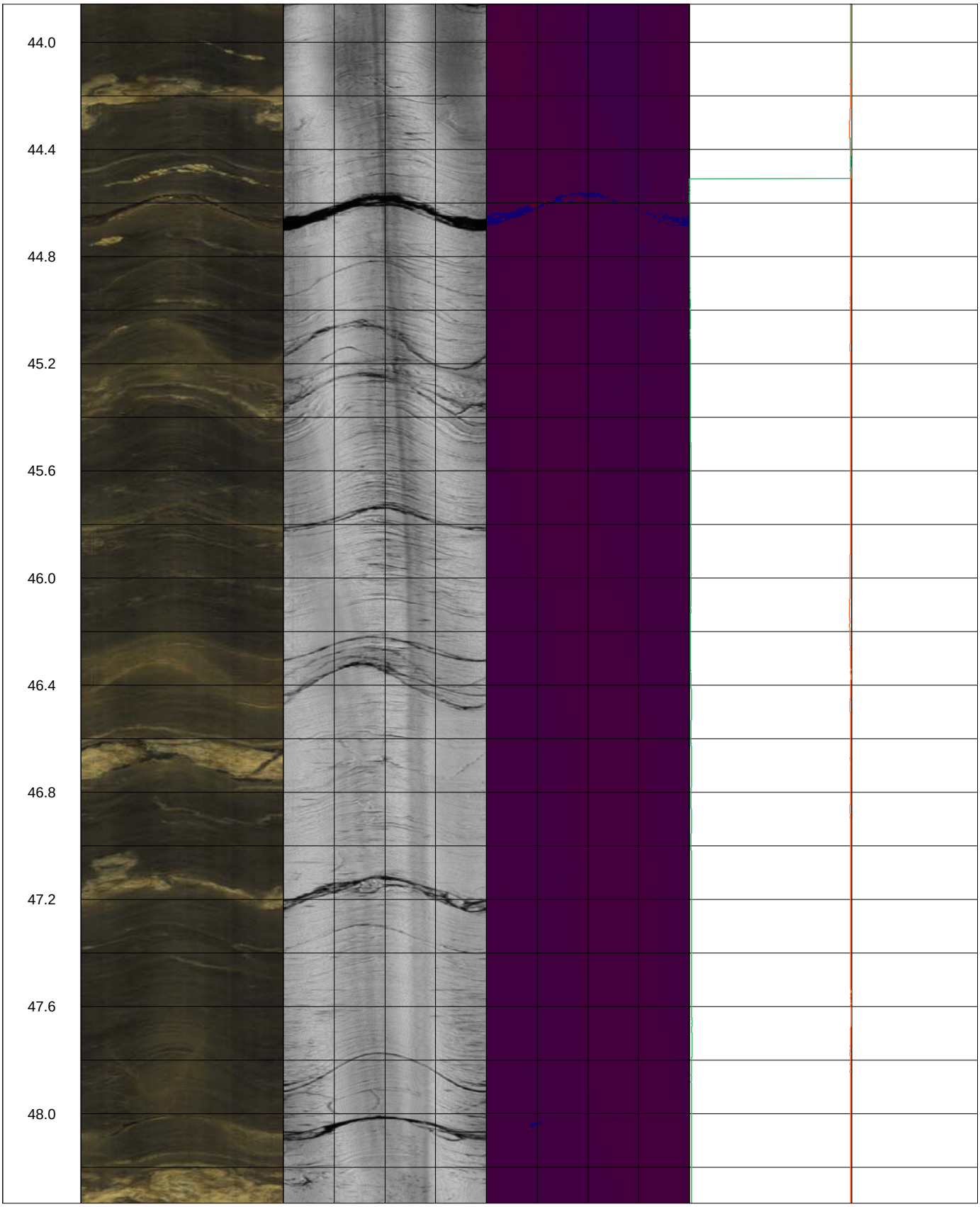

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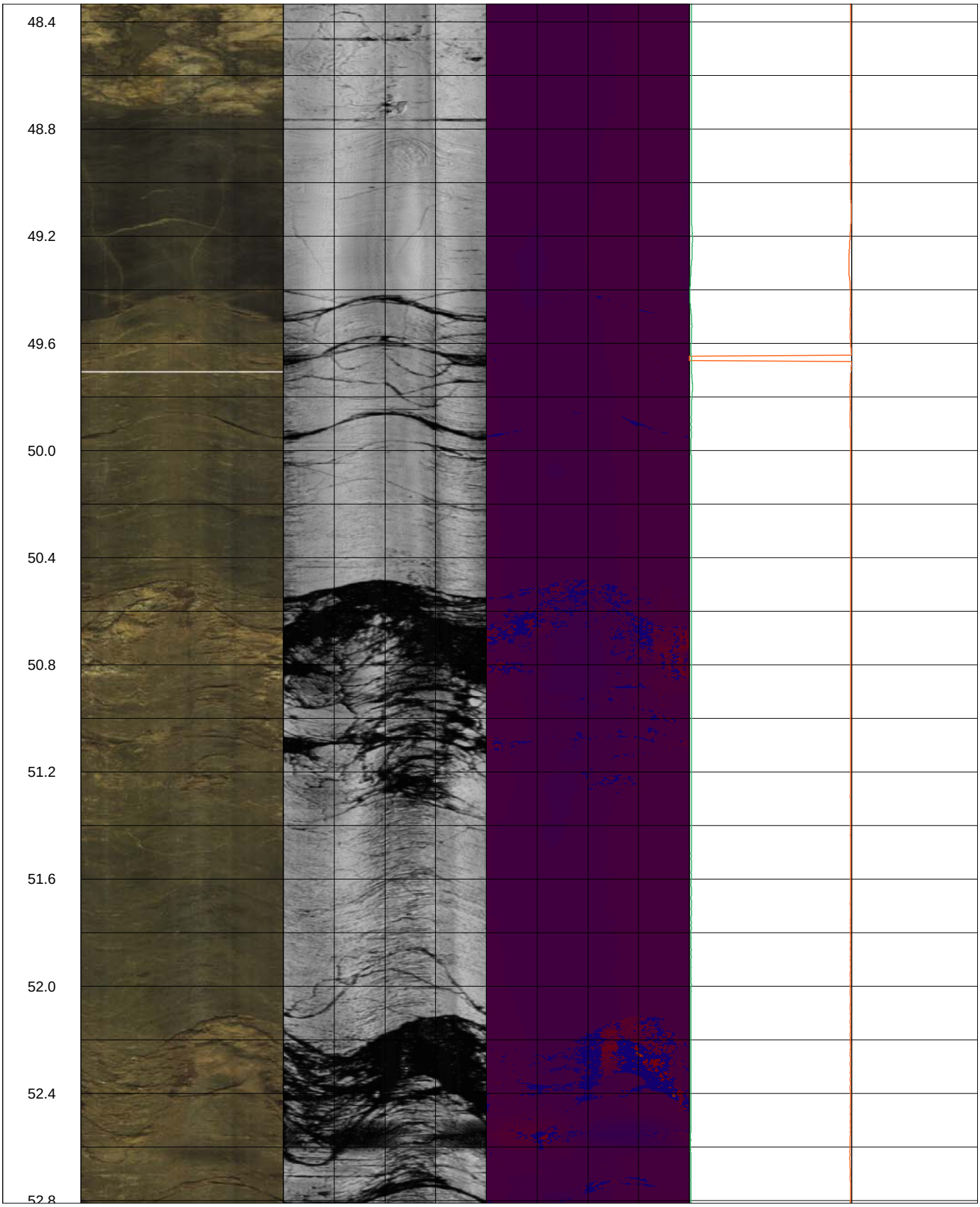

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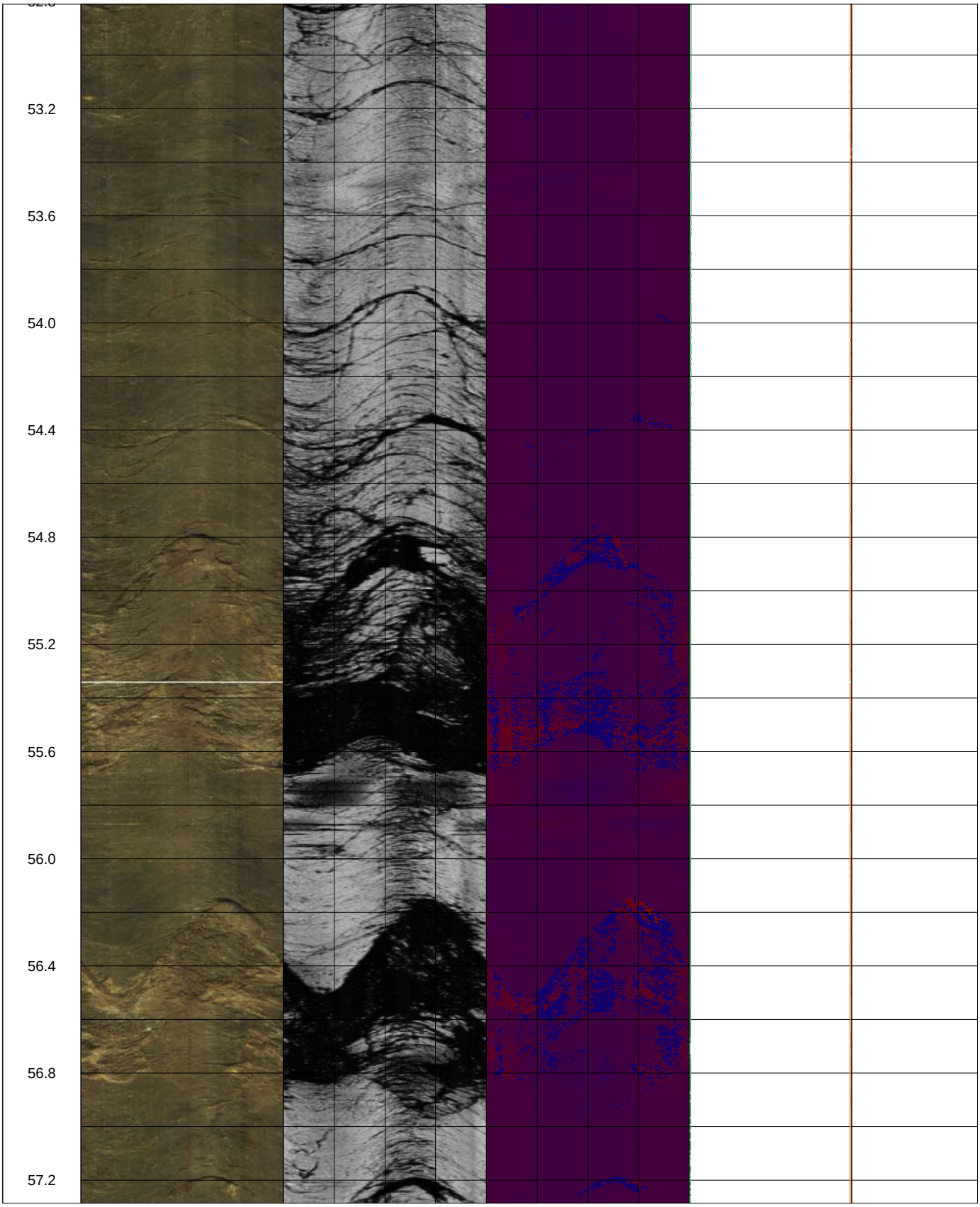

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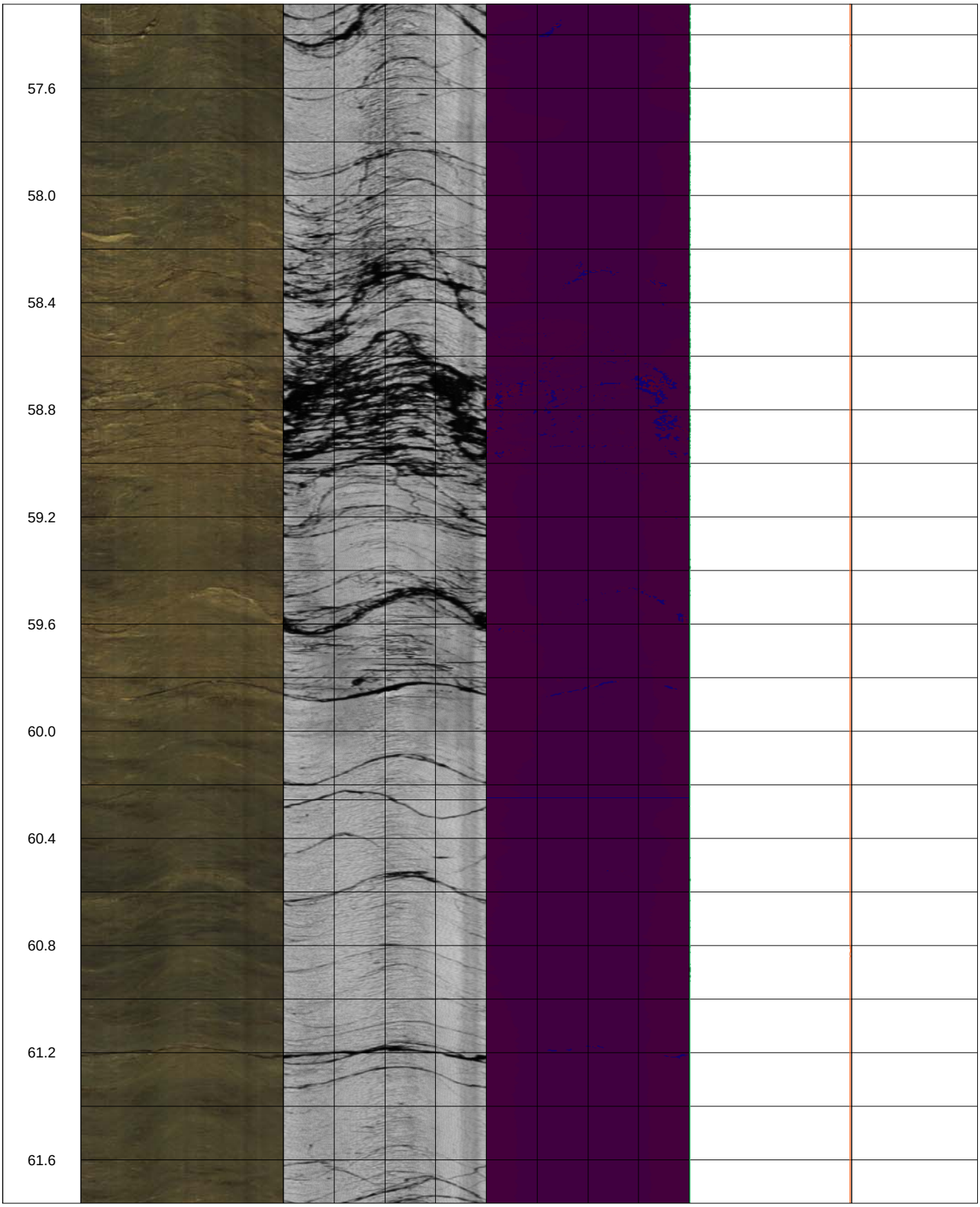

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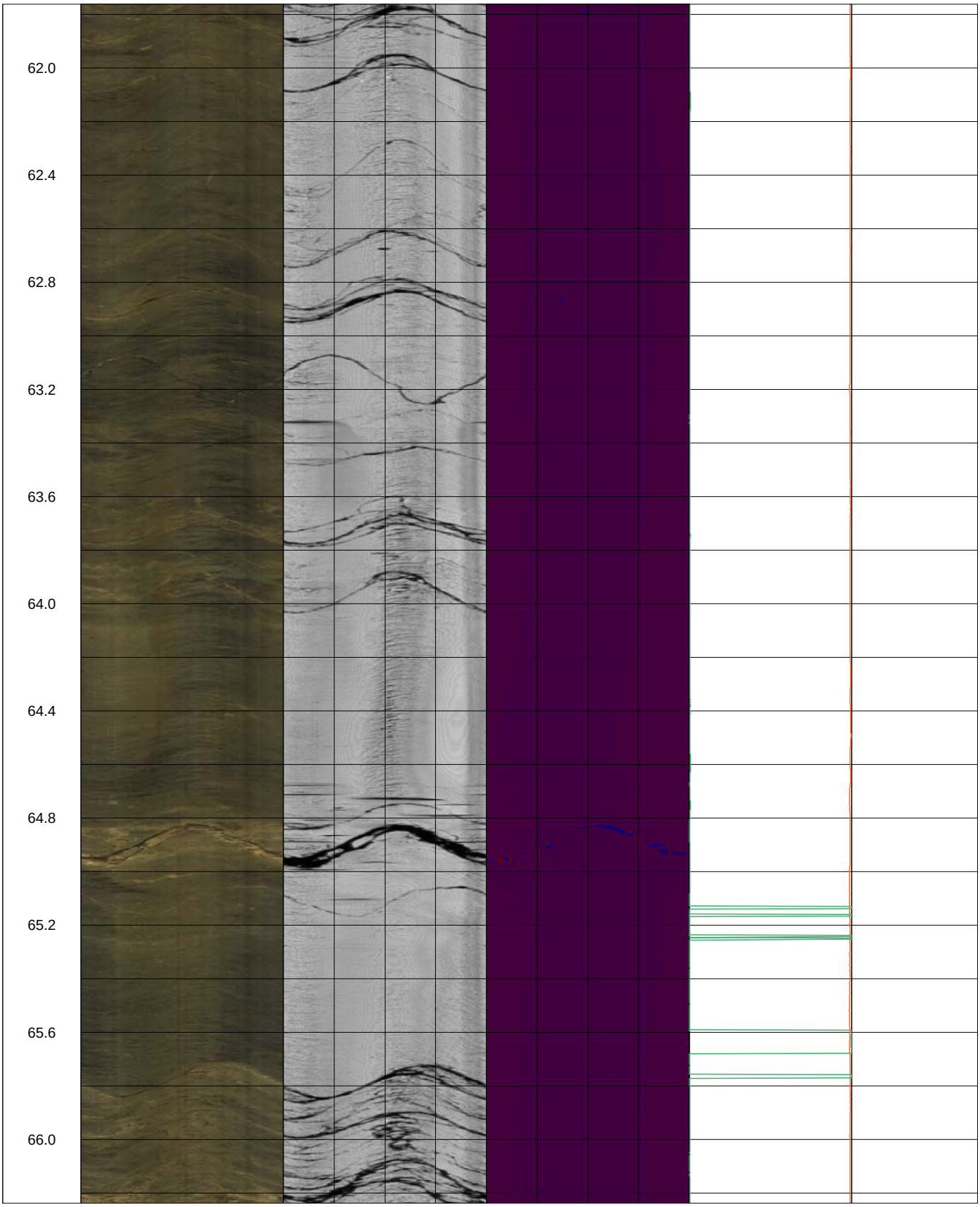
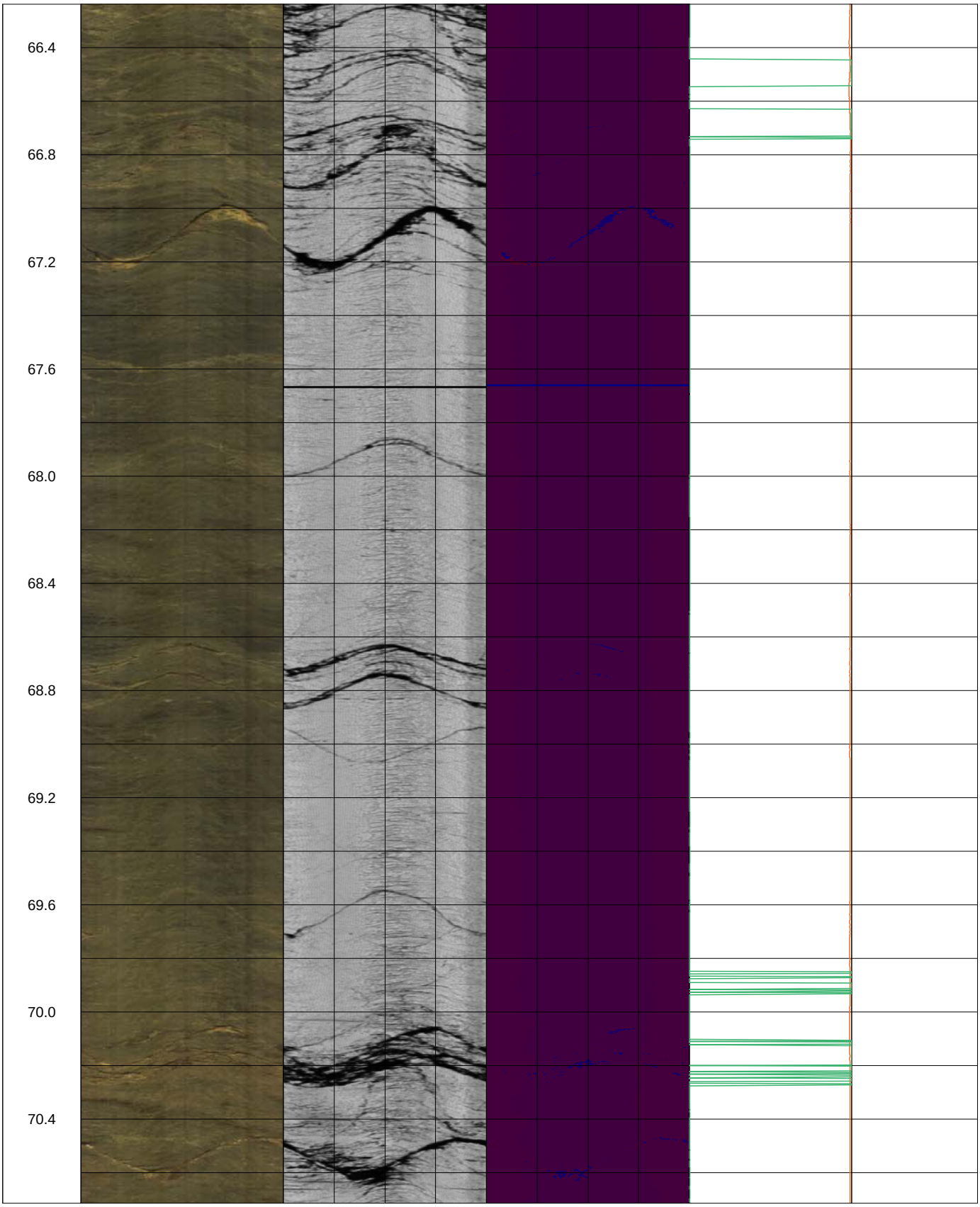


K17-430 Opictal & Acoustic Televiewer Survey Cont.



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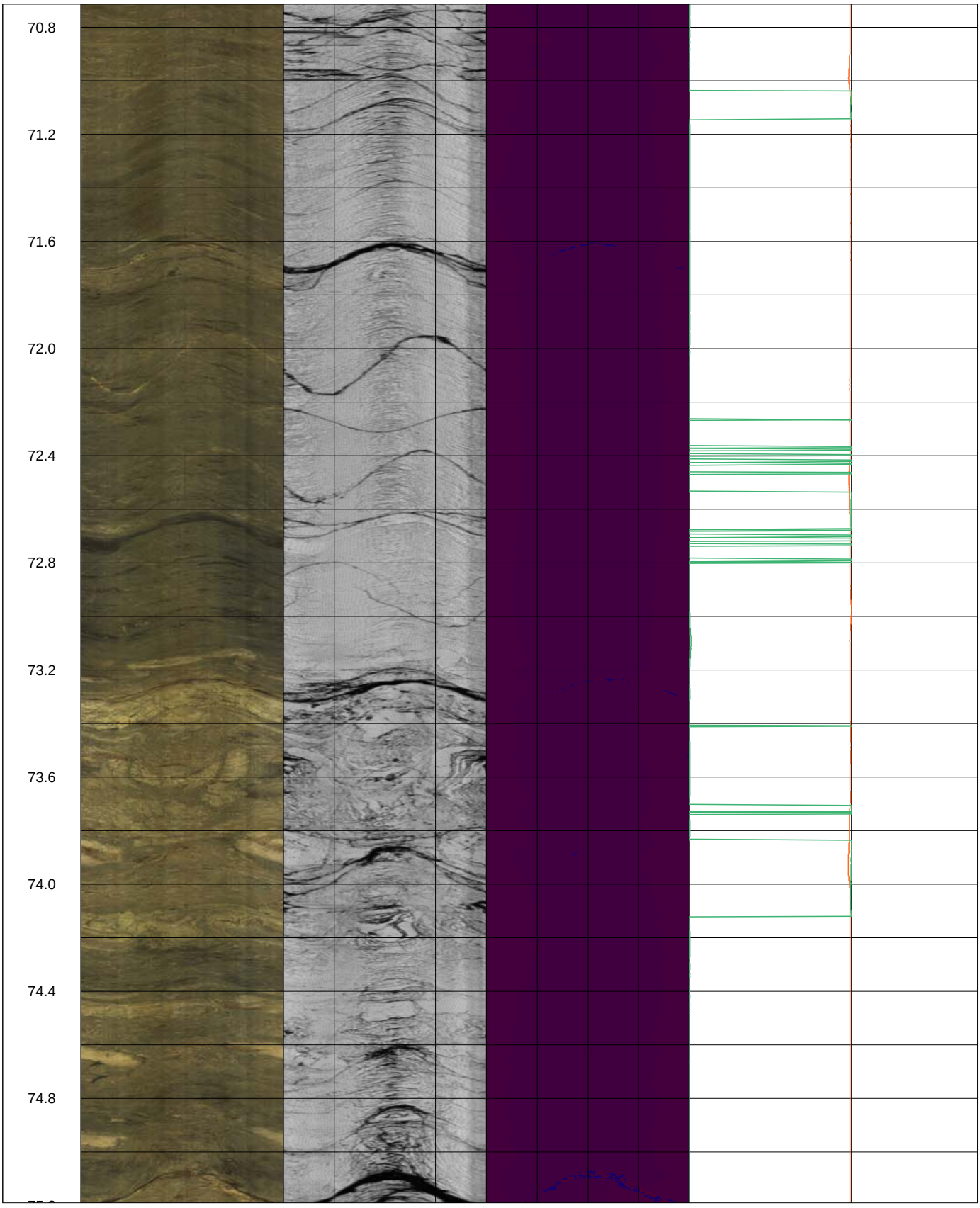

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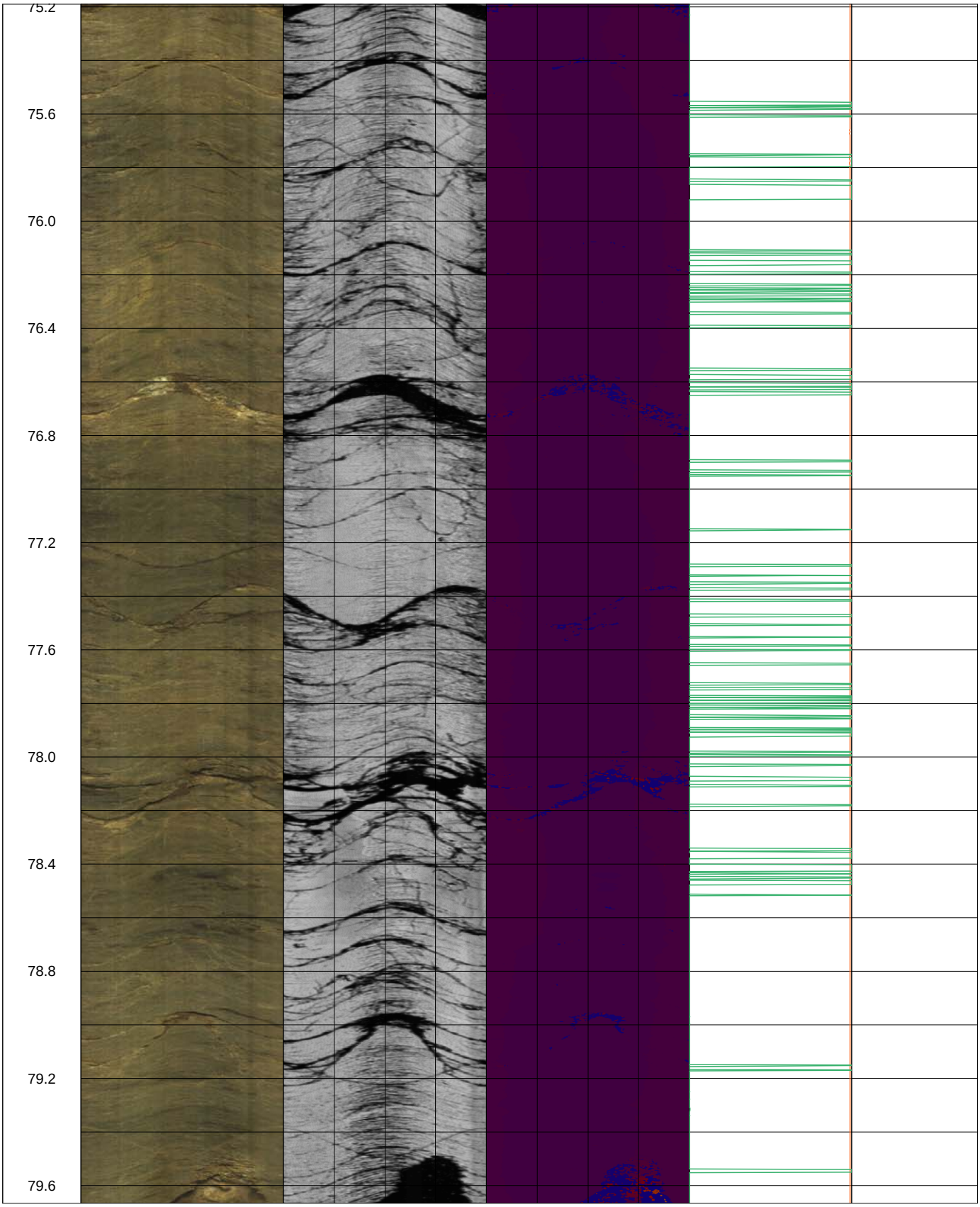

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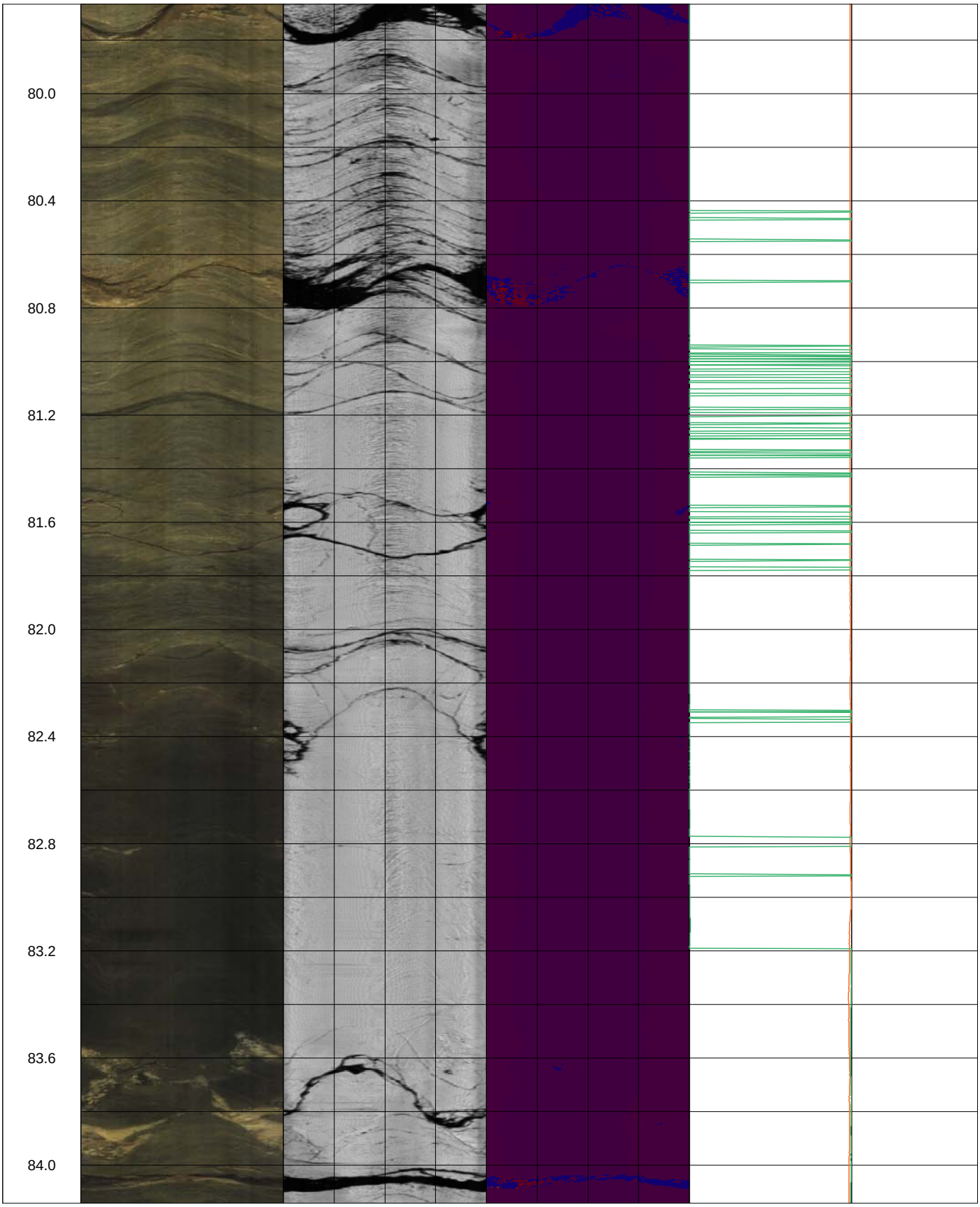

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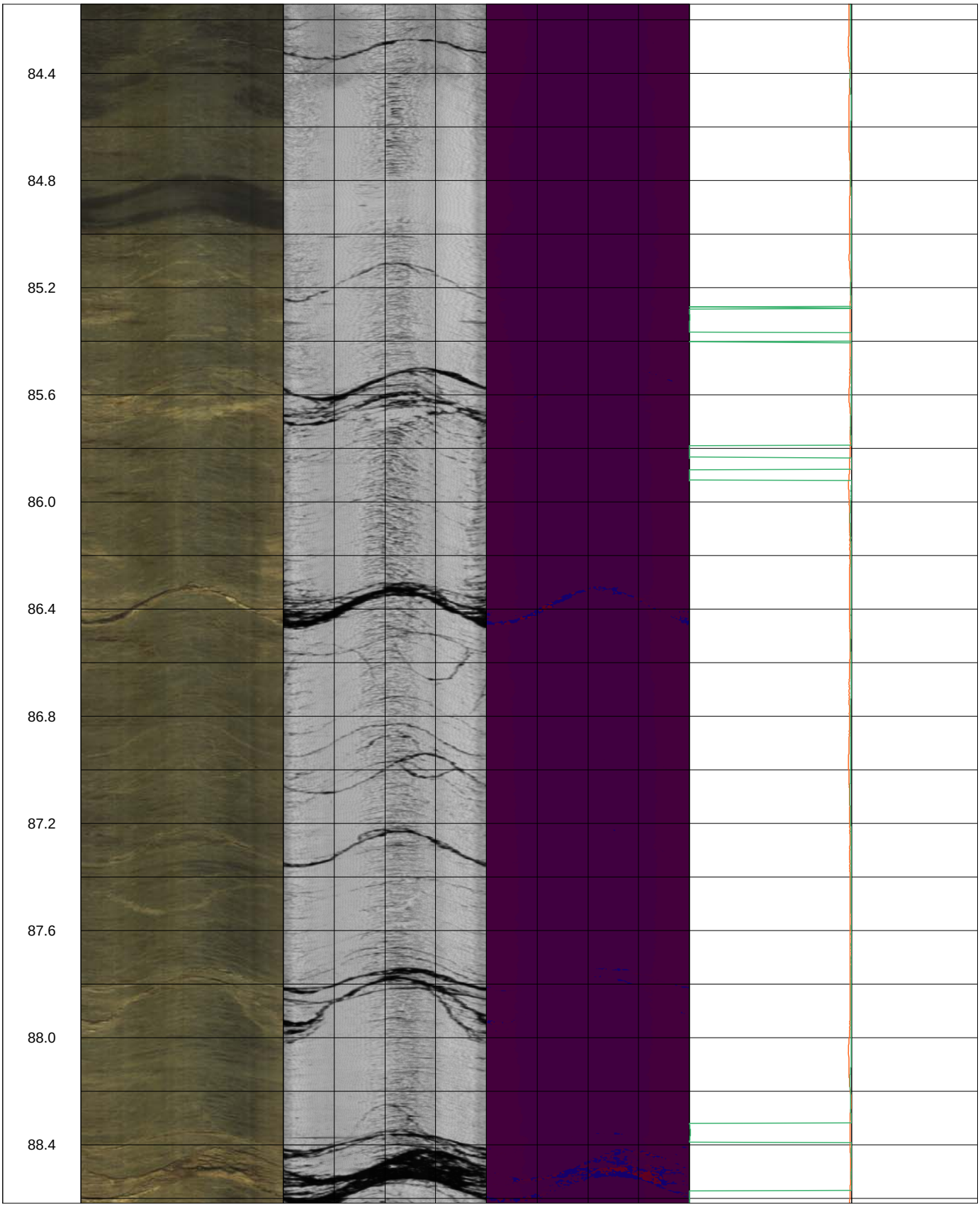

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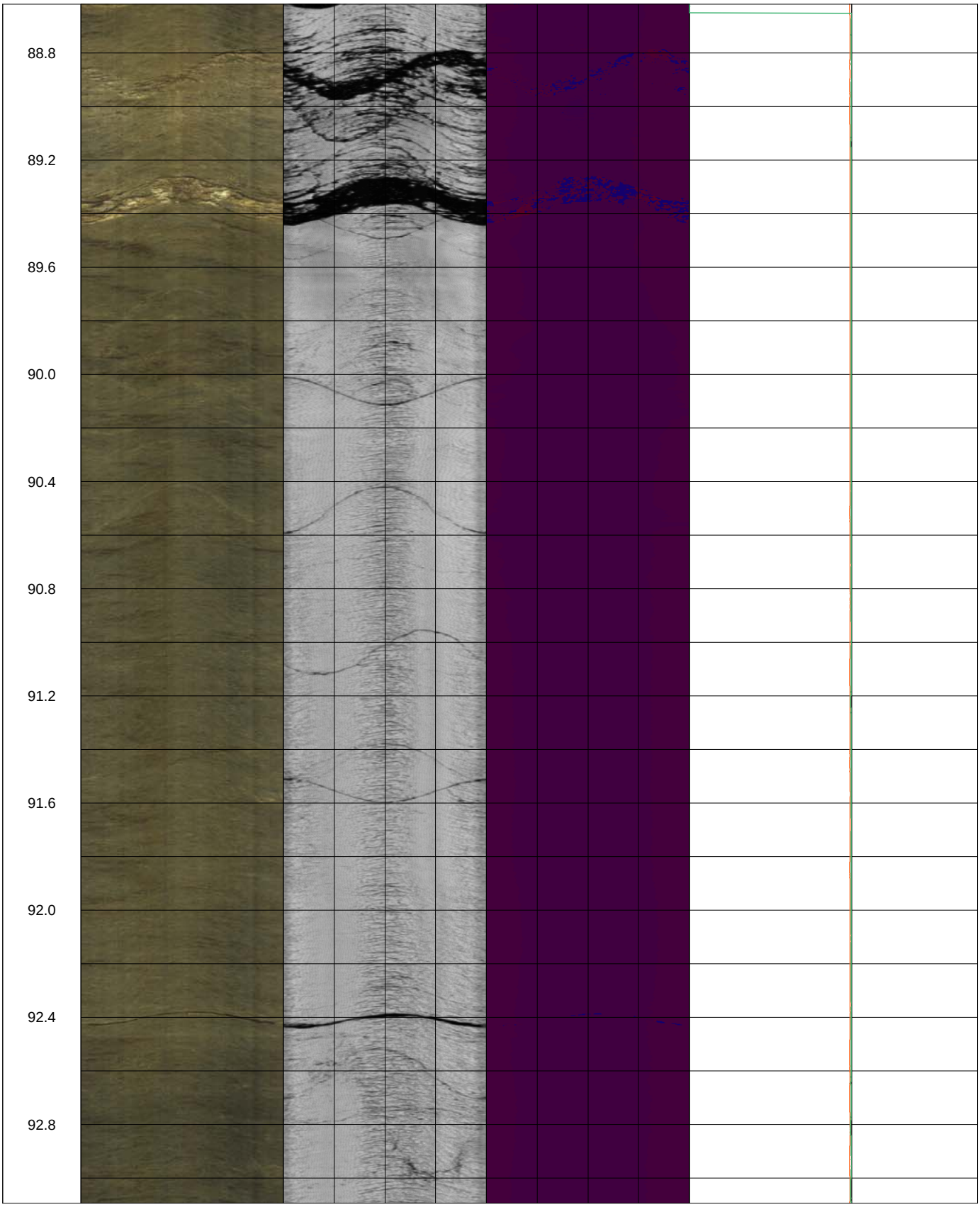

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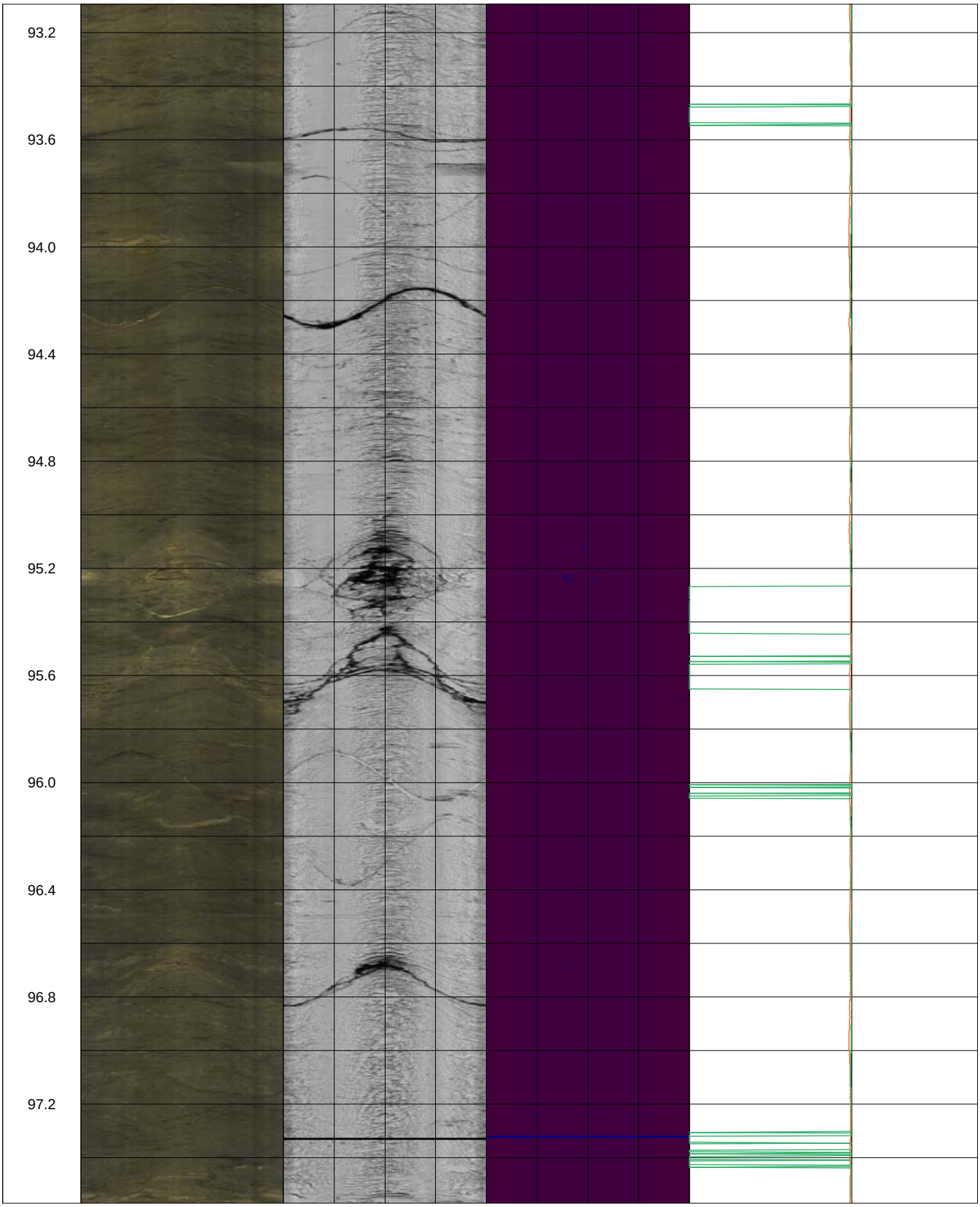

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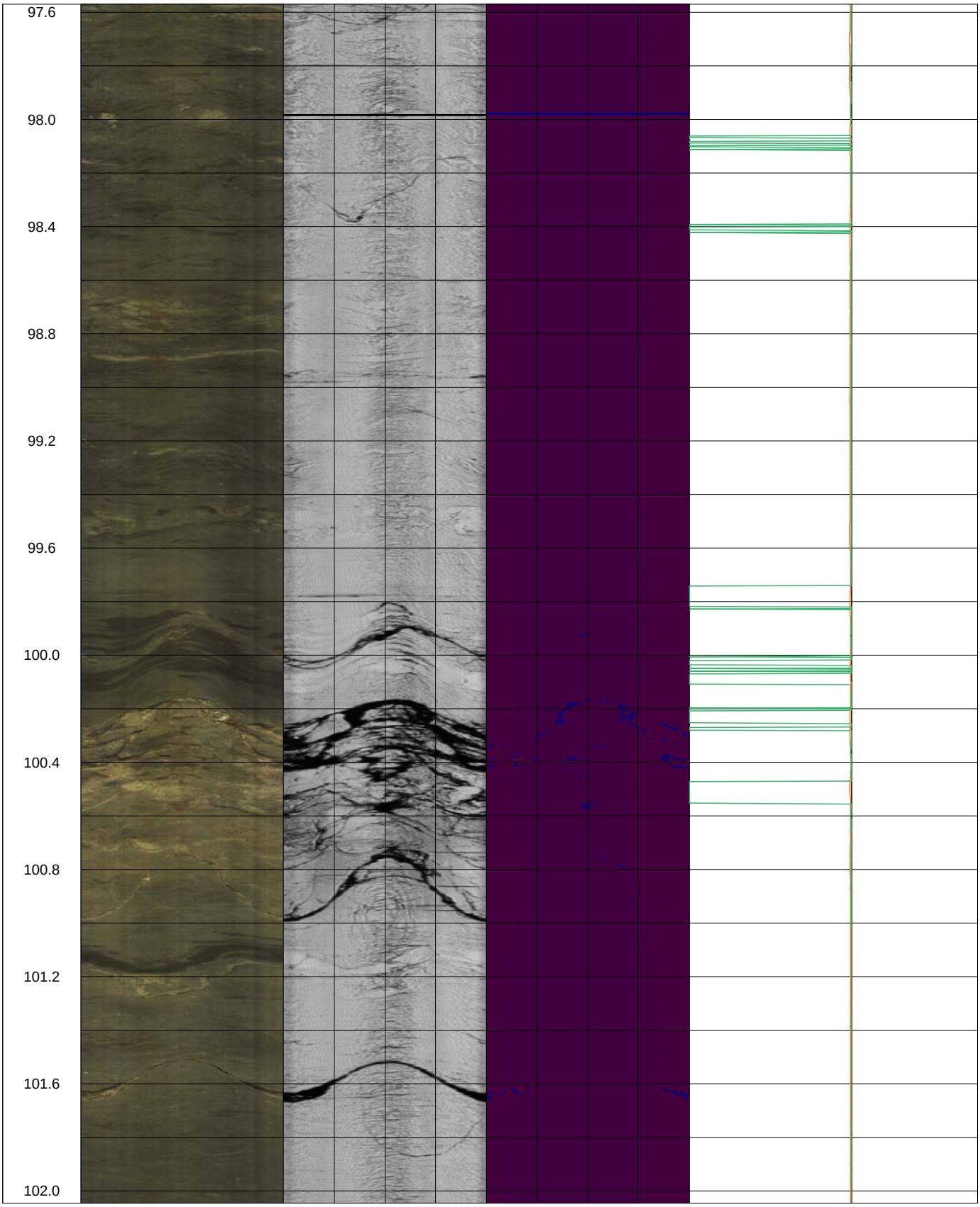

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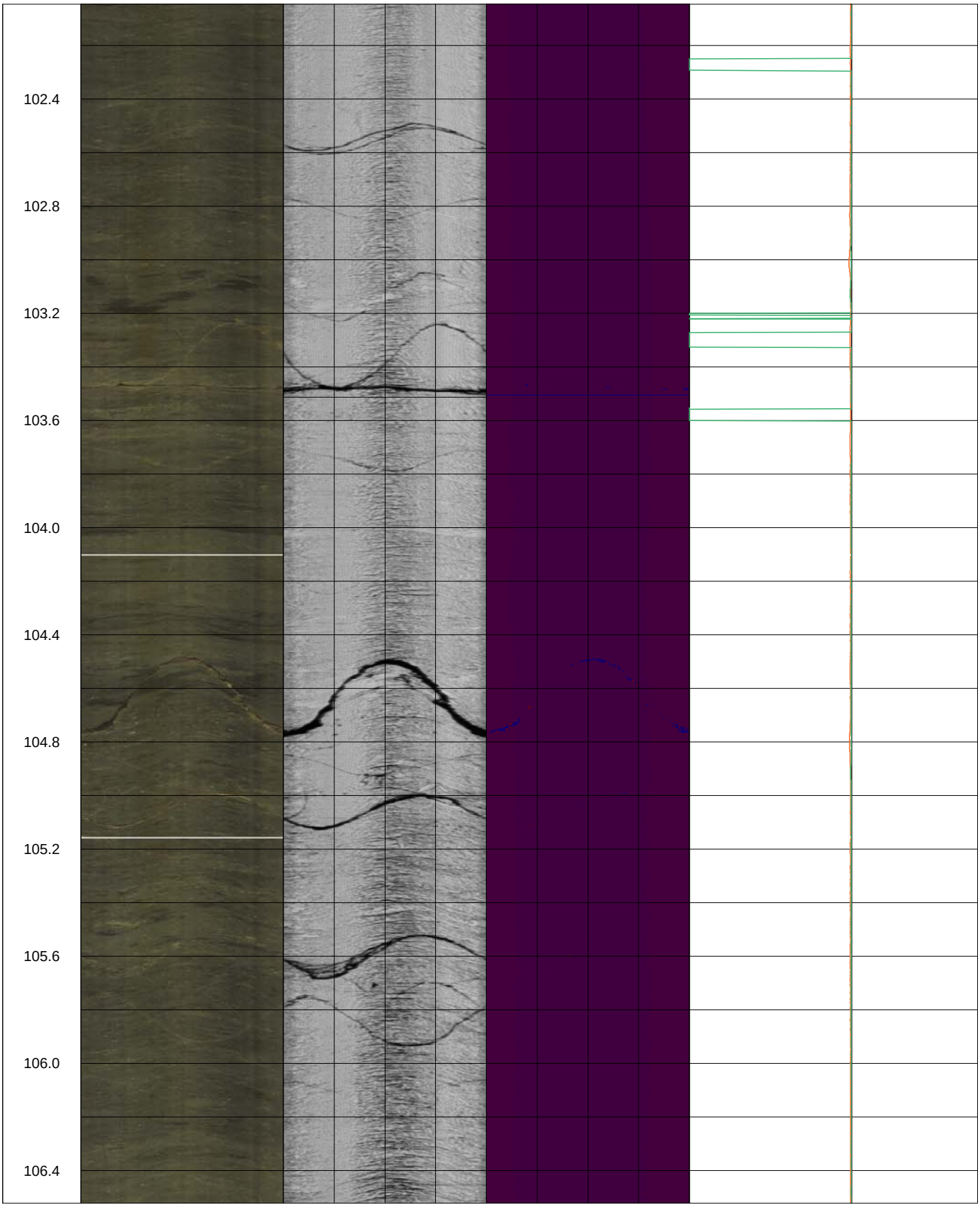

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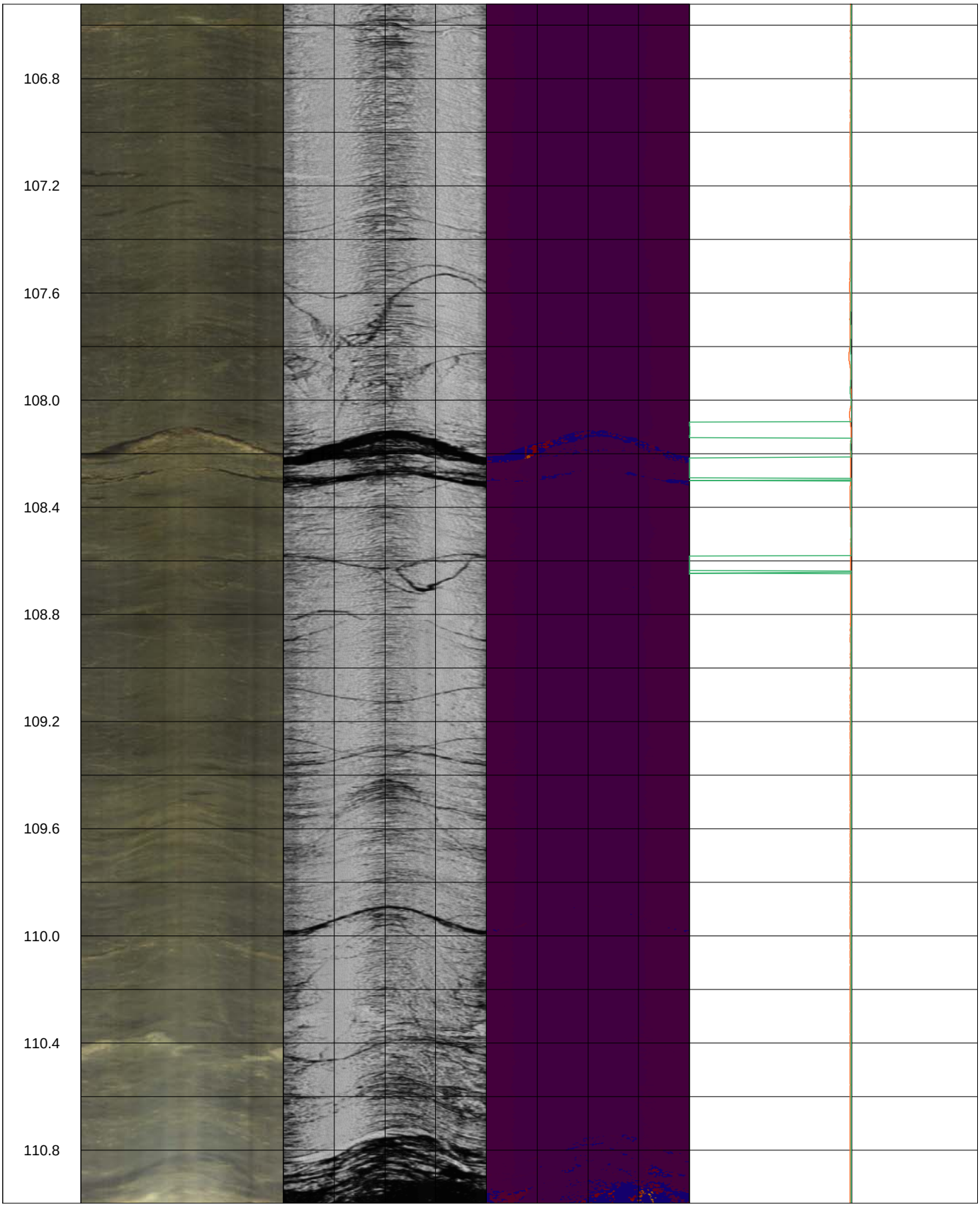

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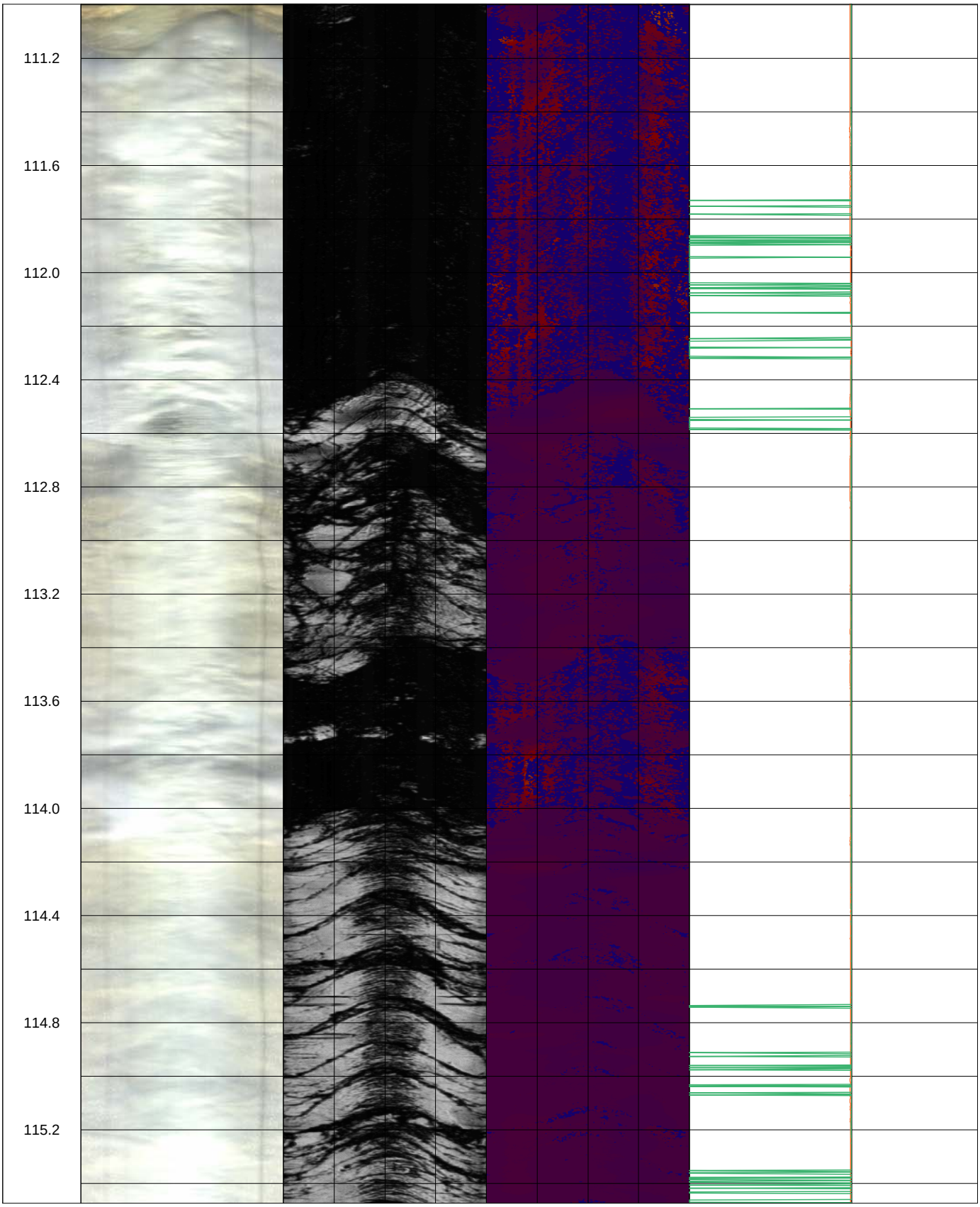

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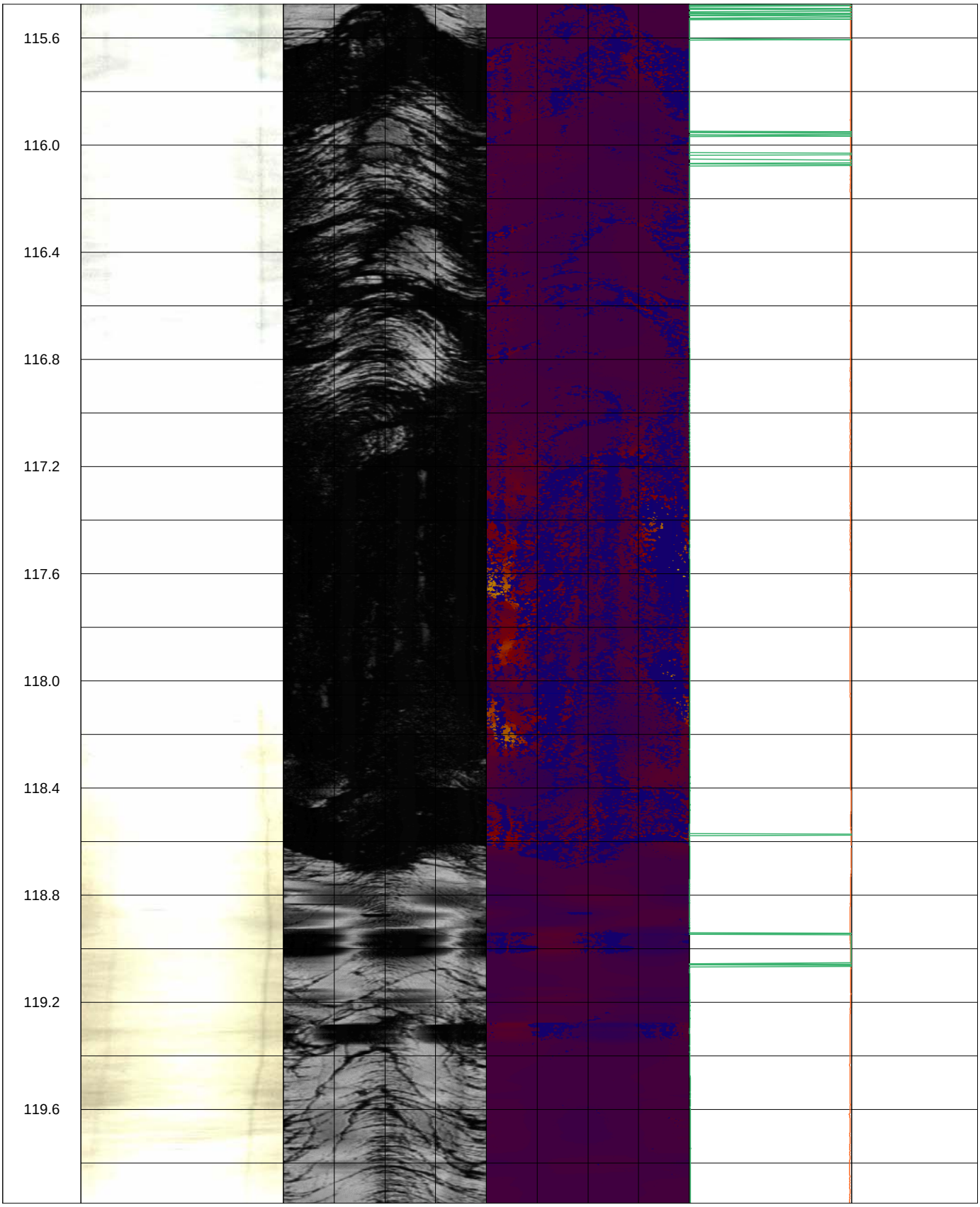

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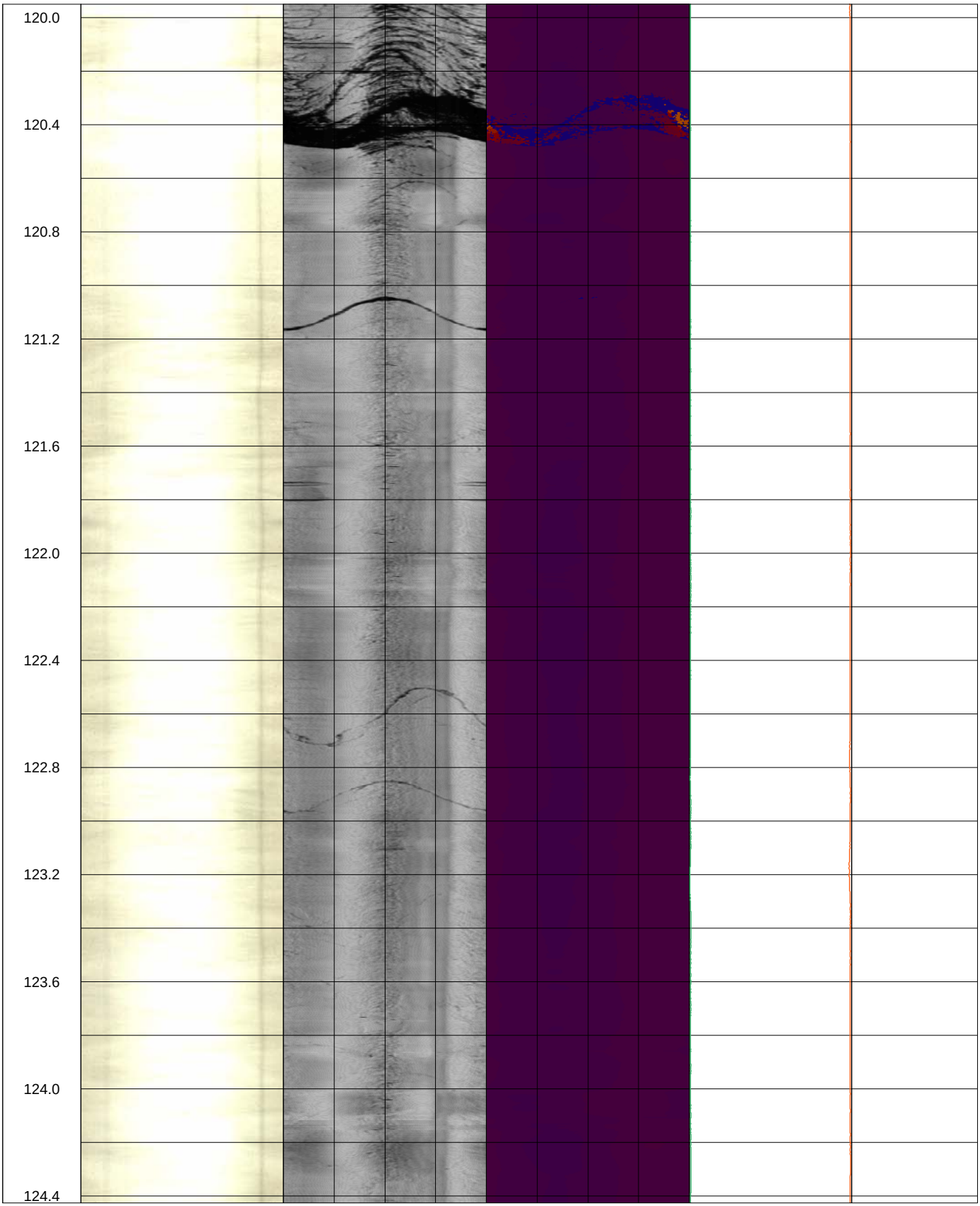

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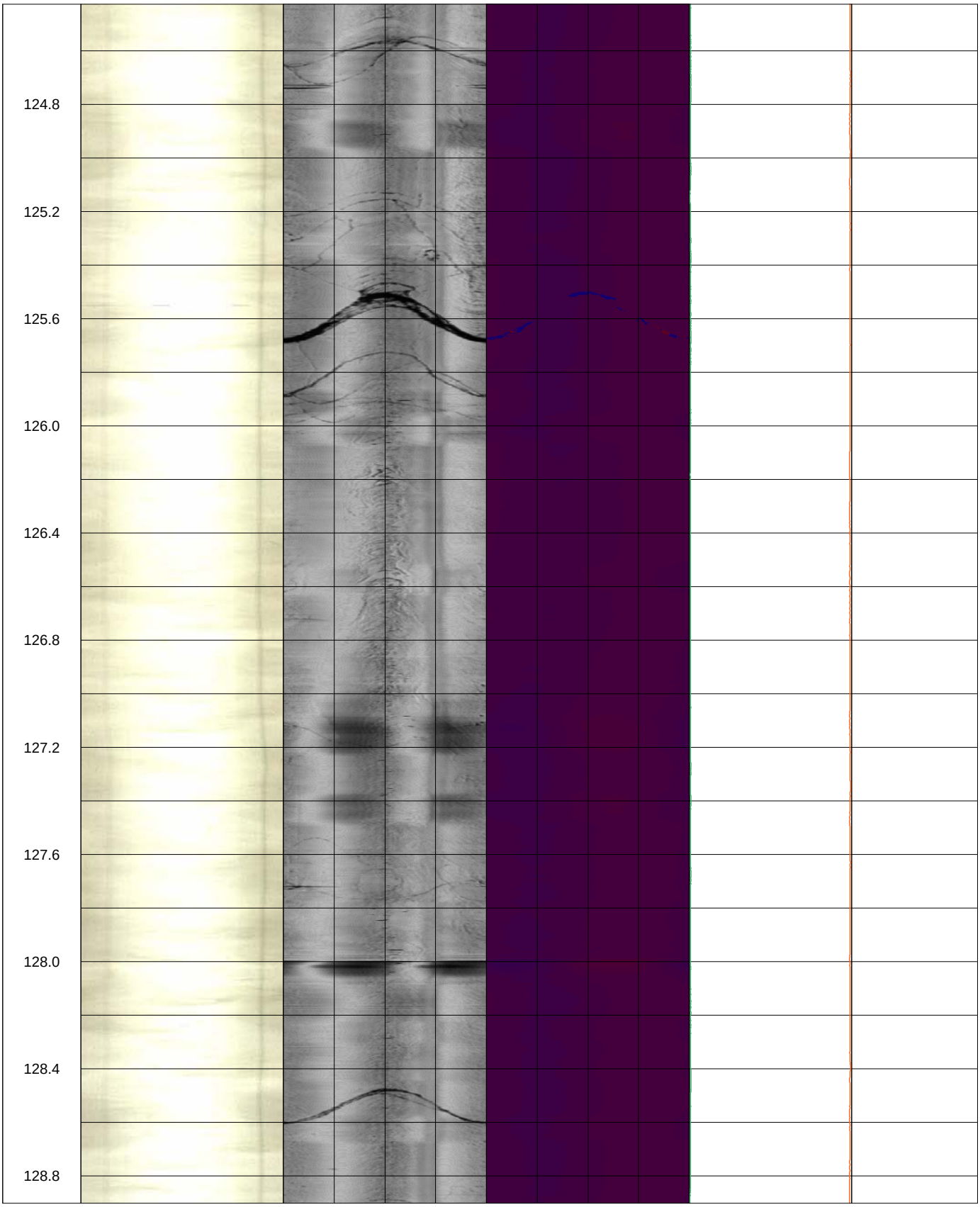

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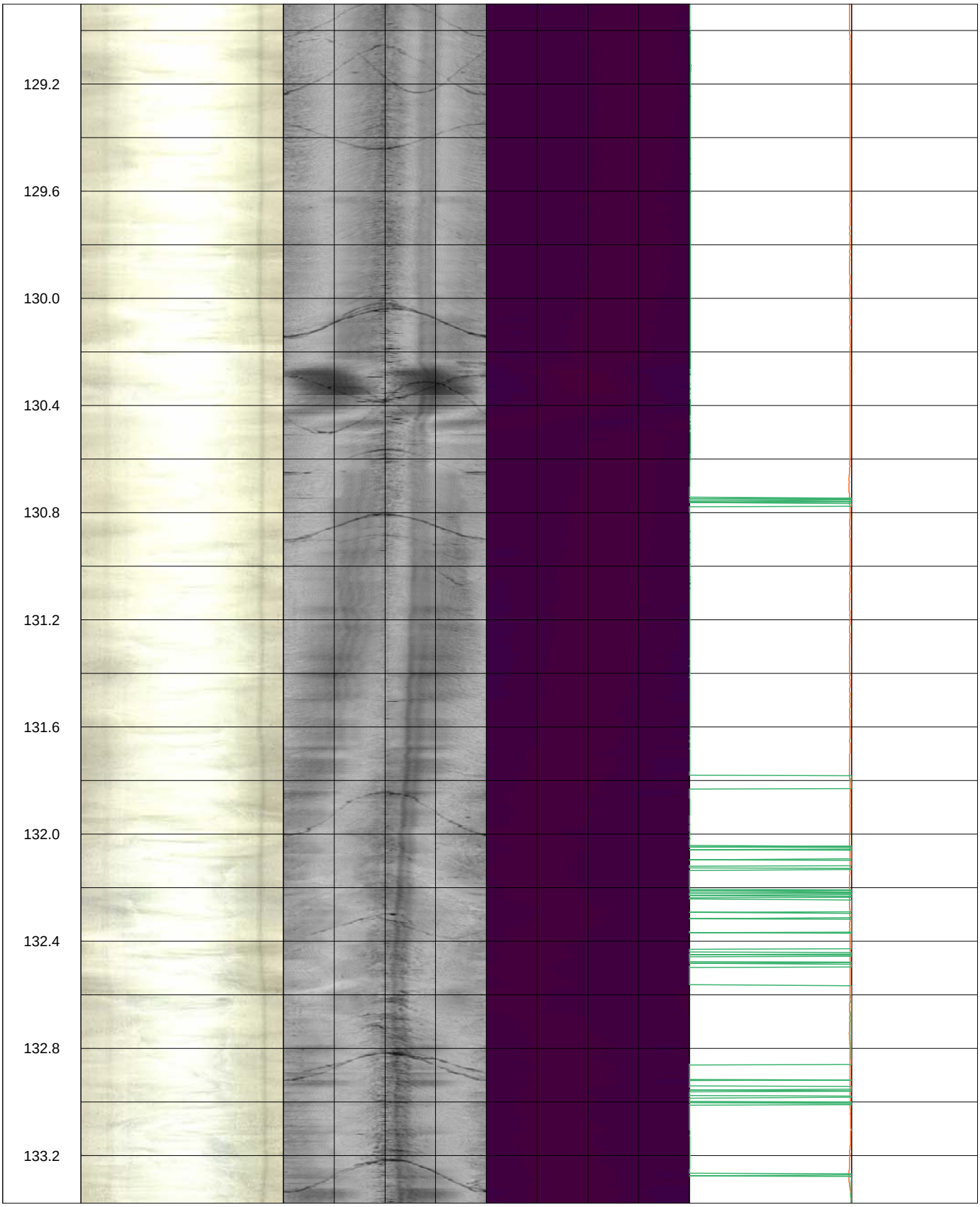

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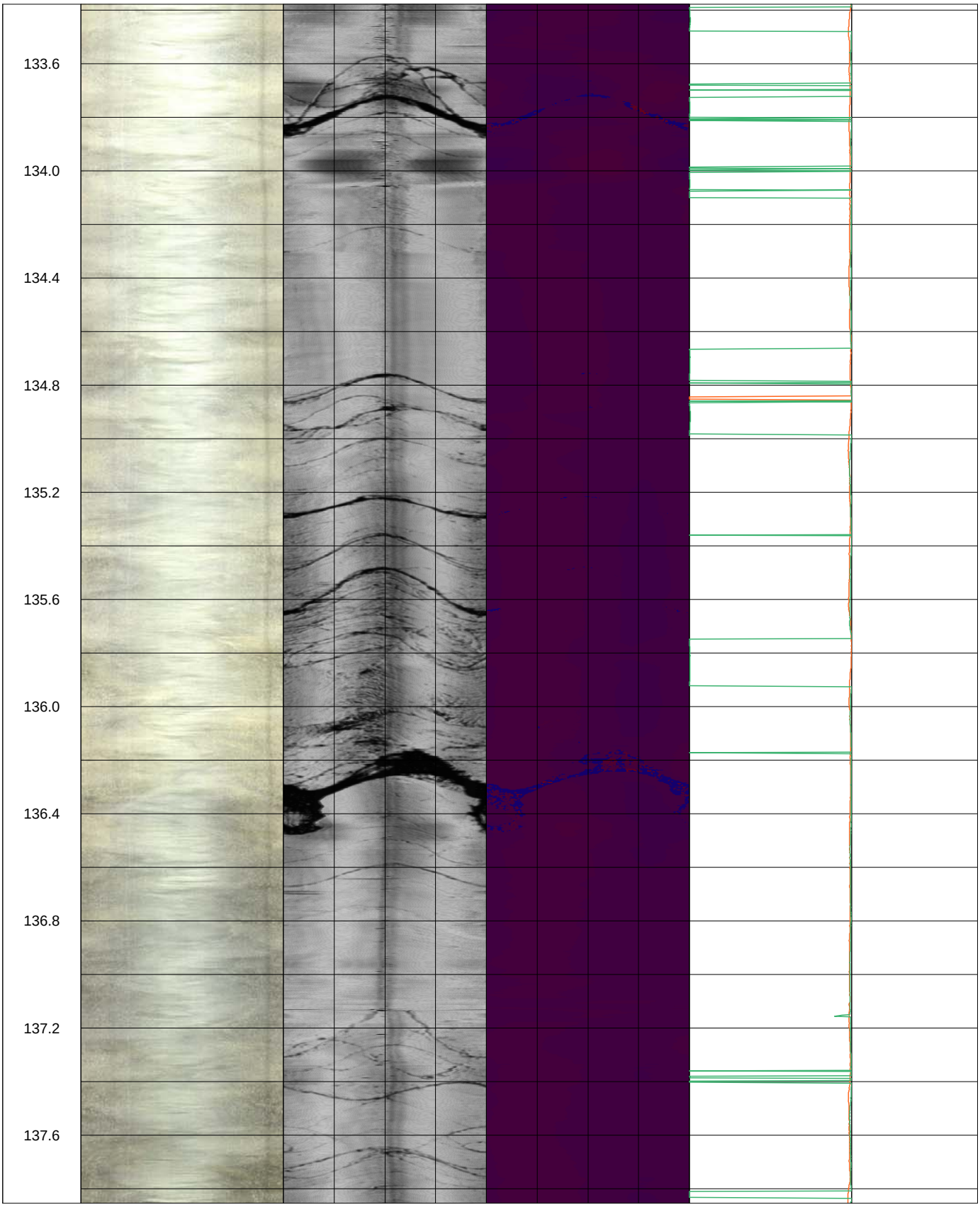

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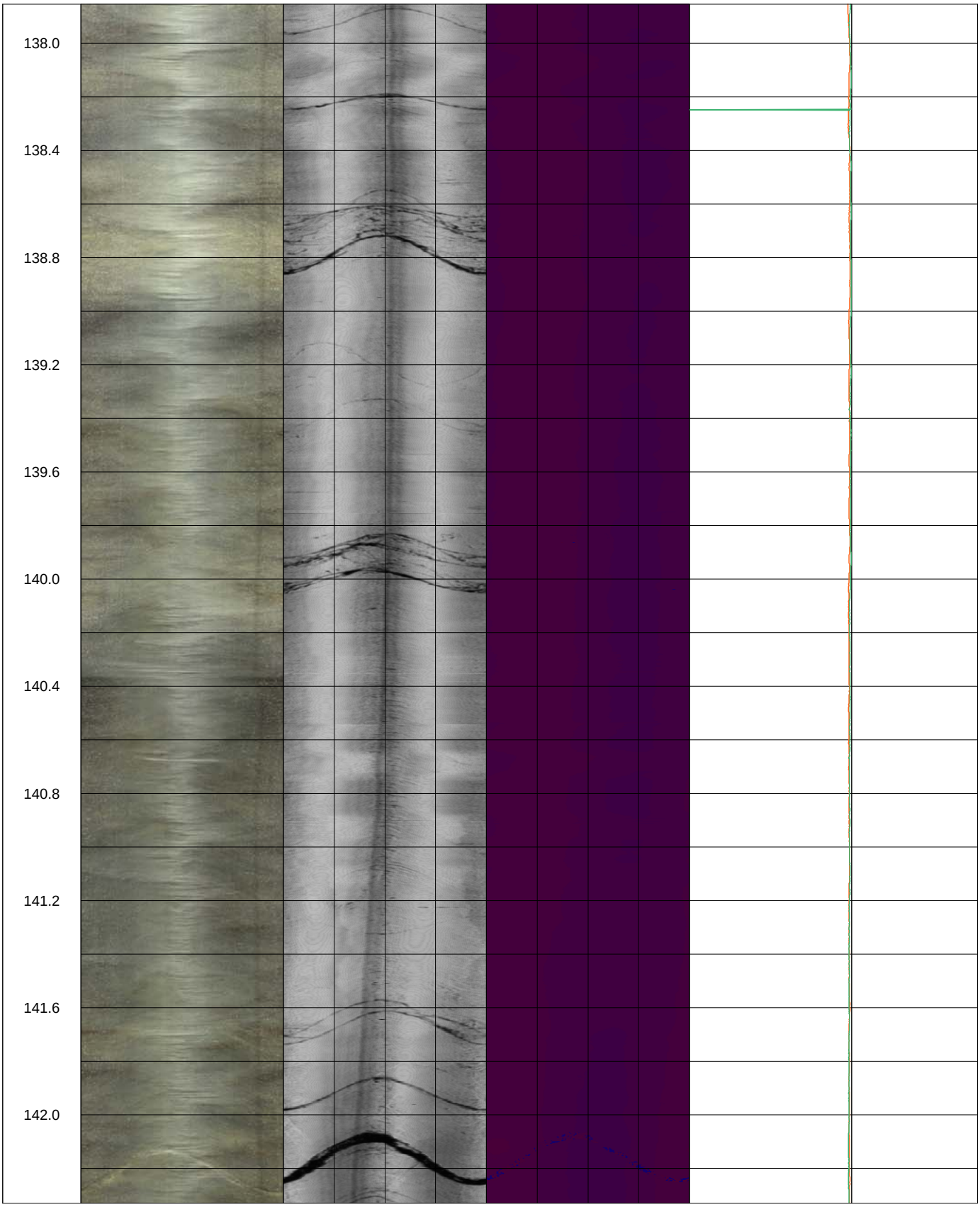

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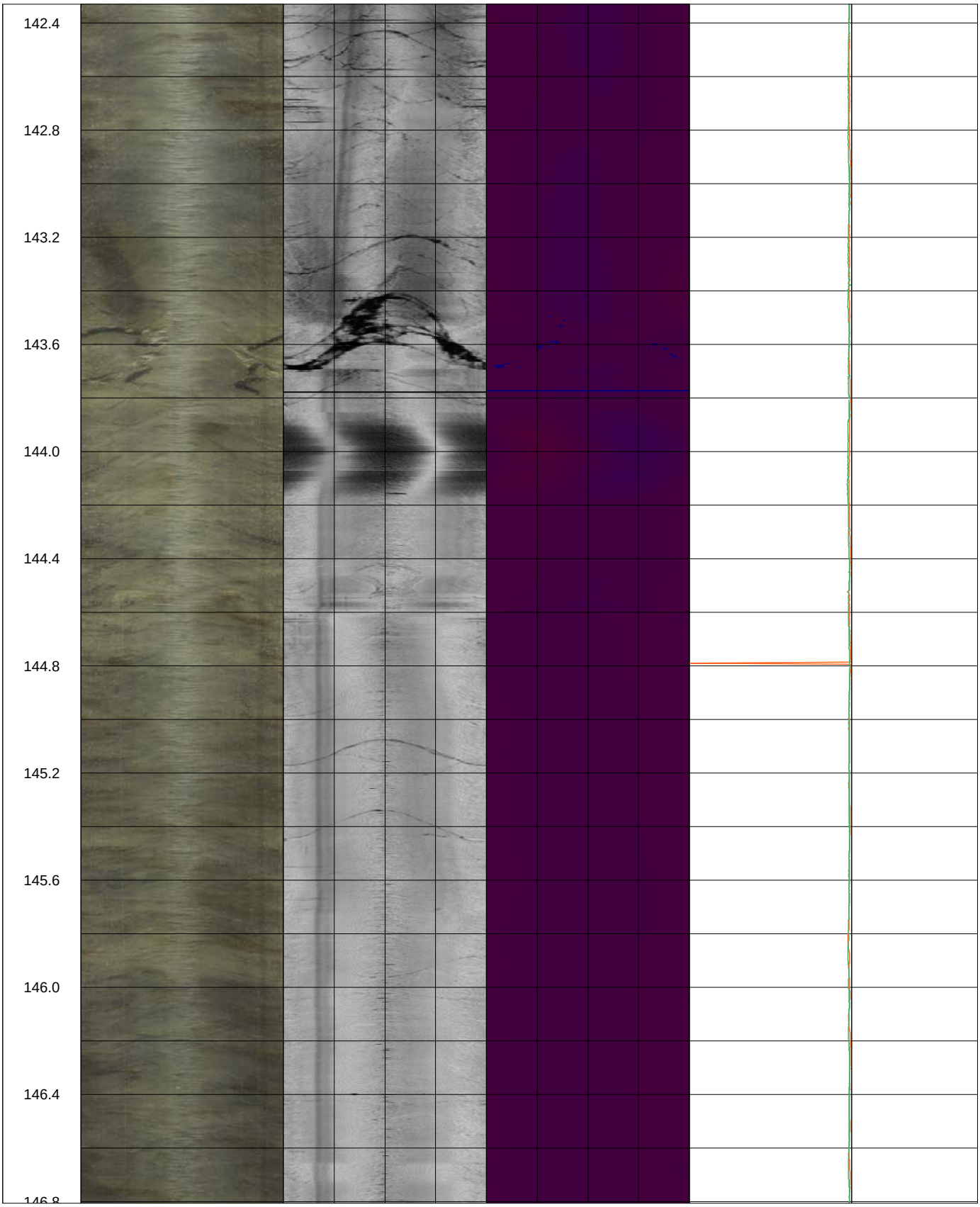

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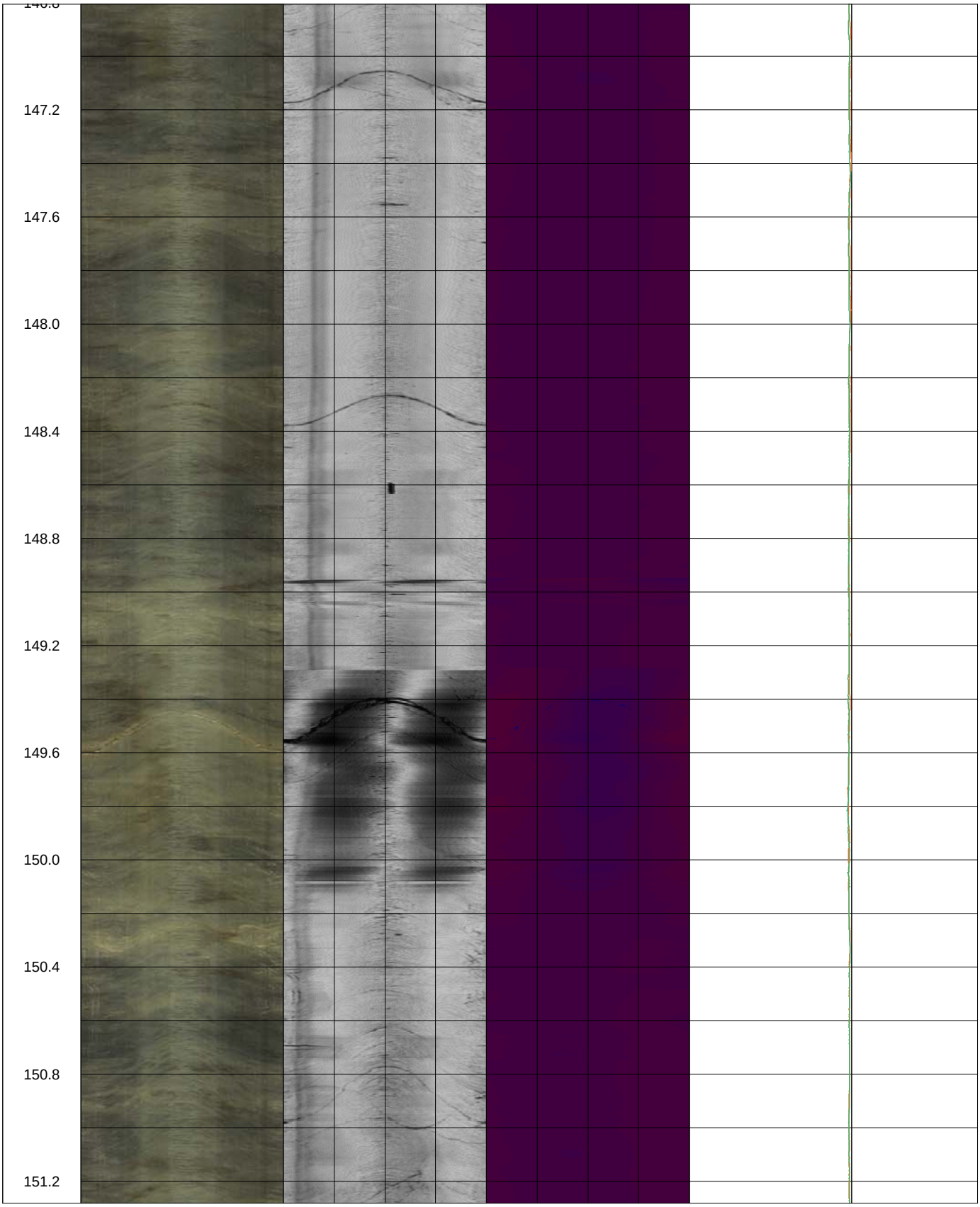

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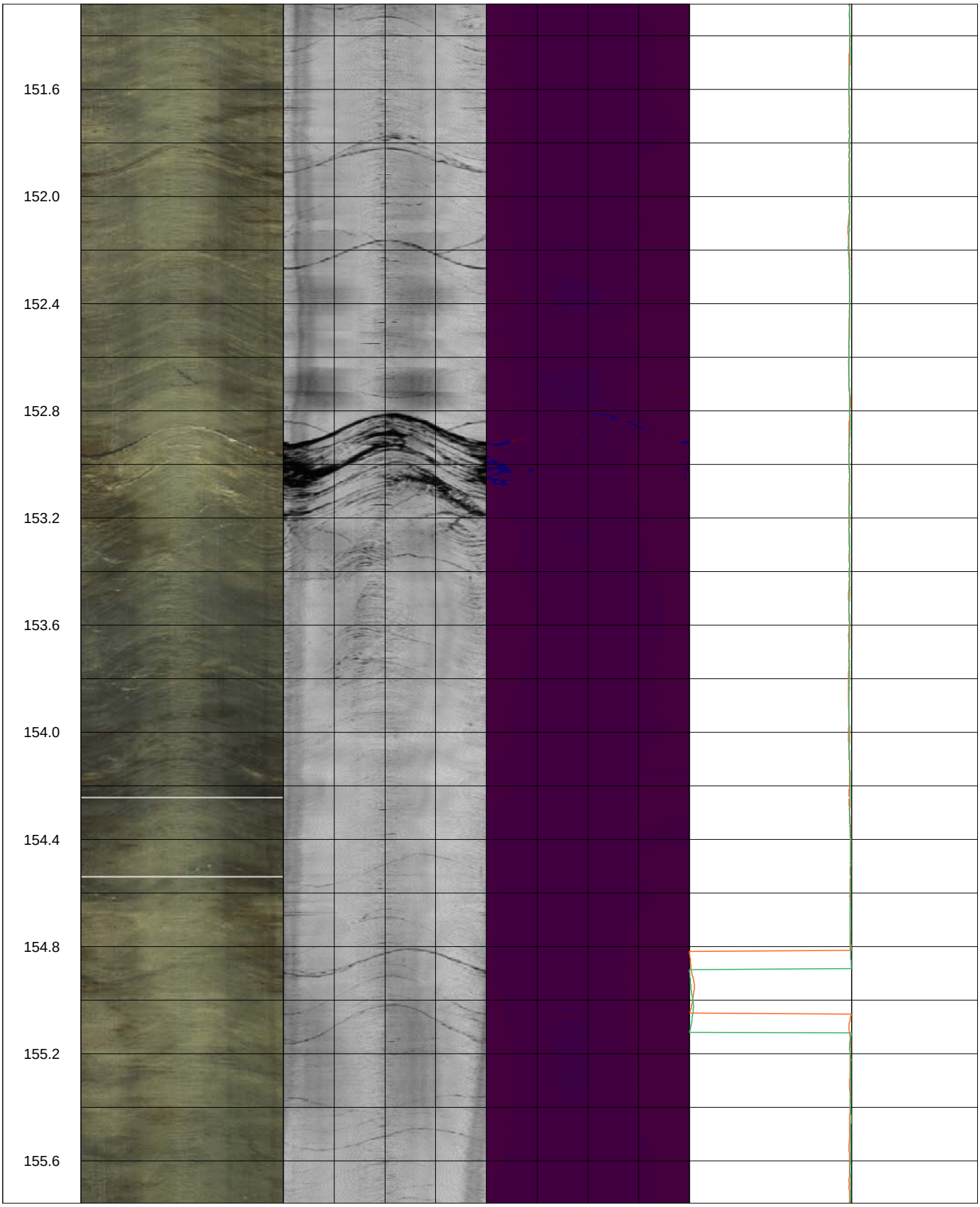

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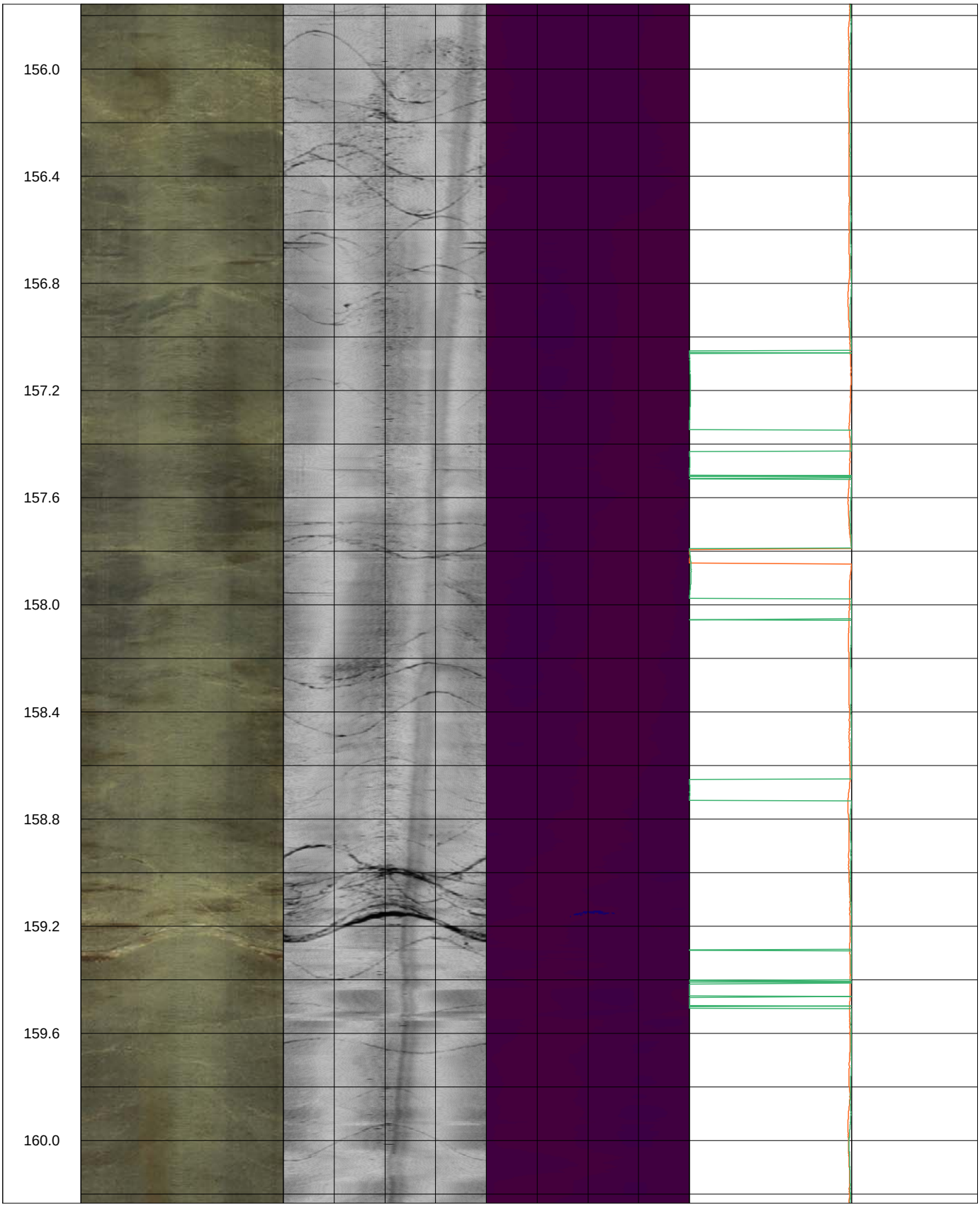

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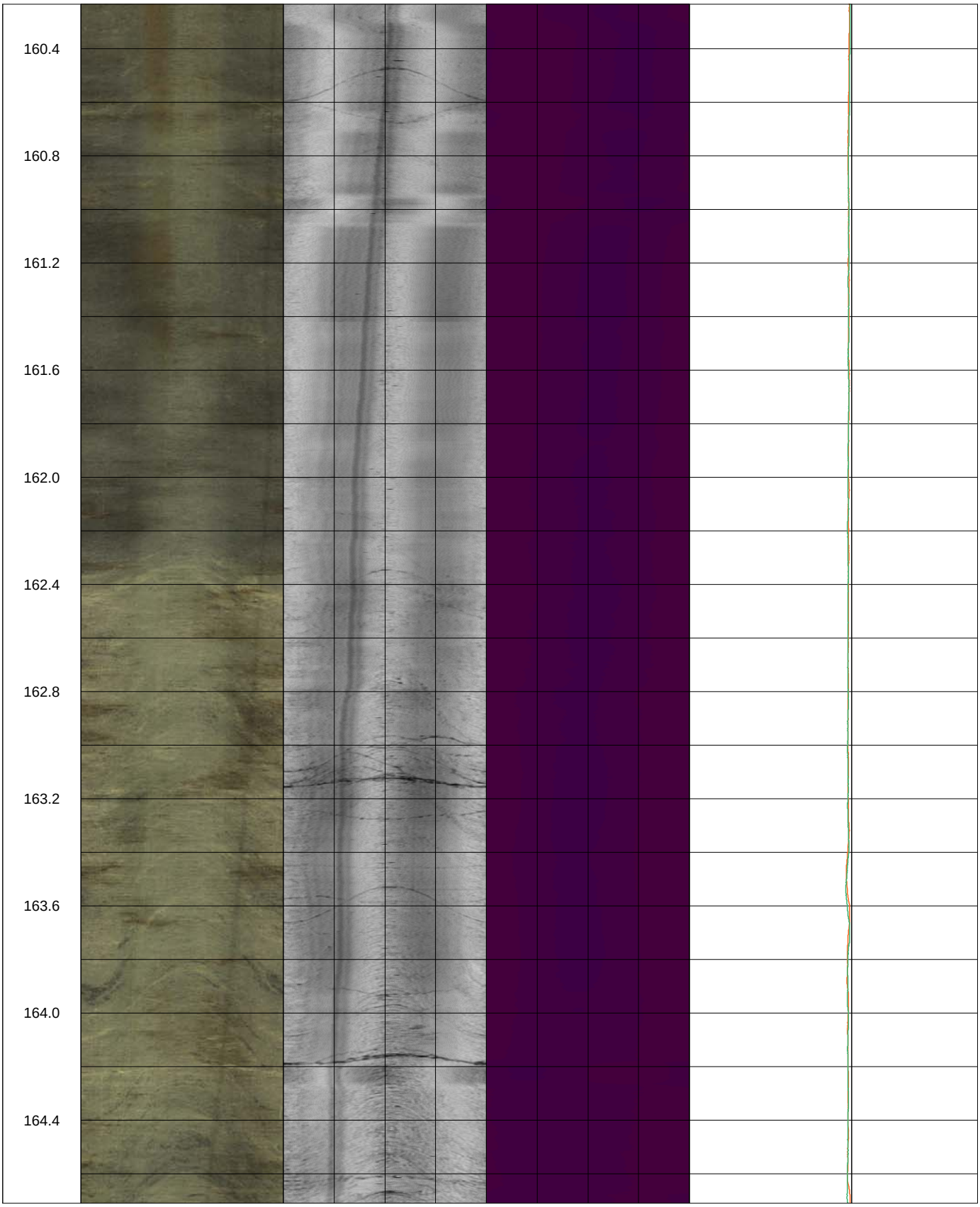

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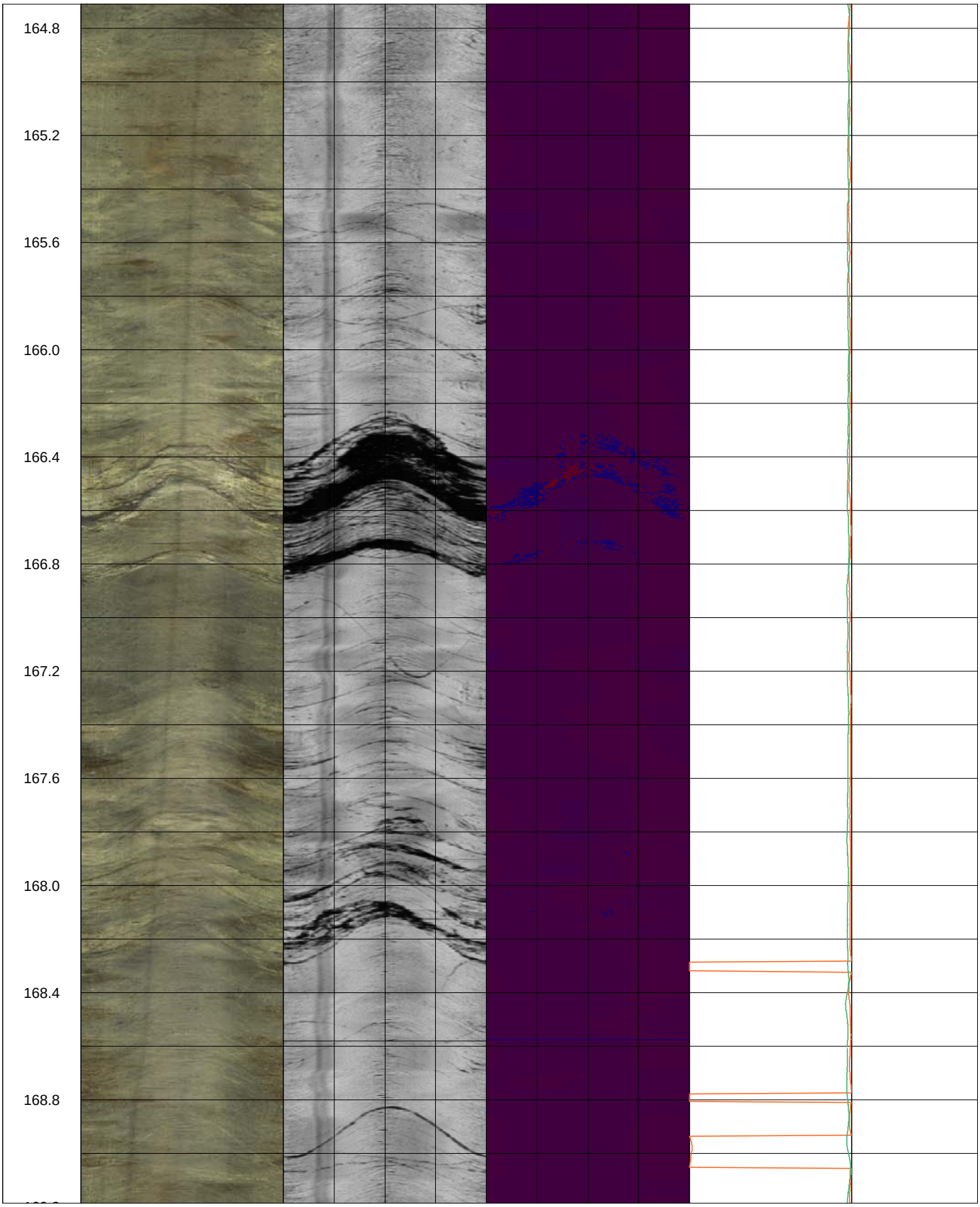

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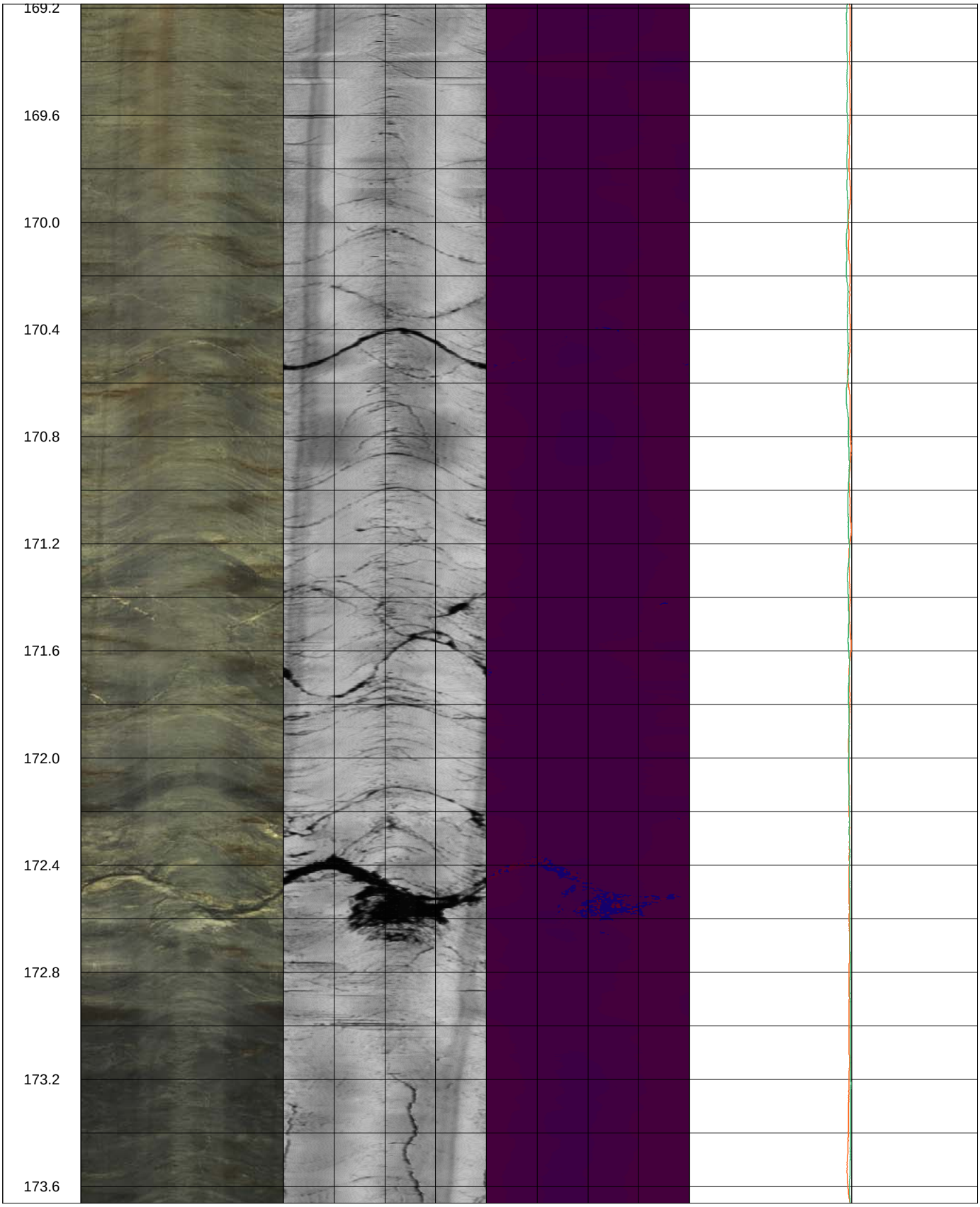

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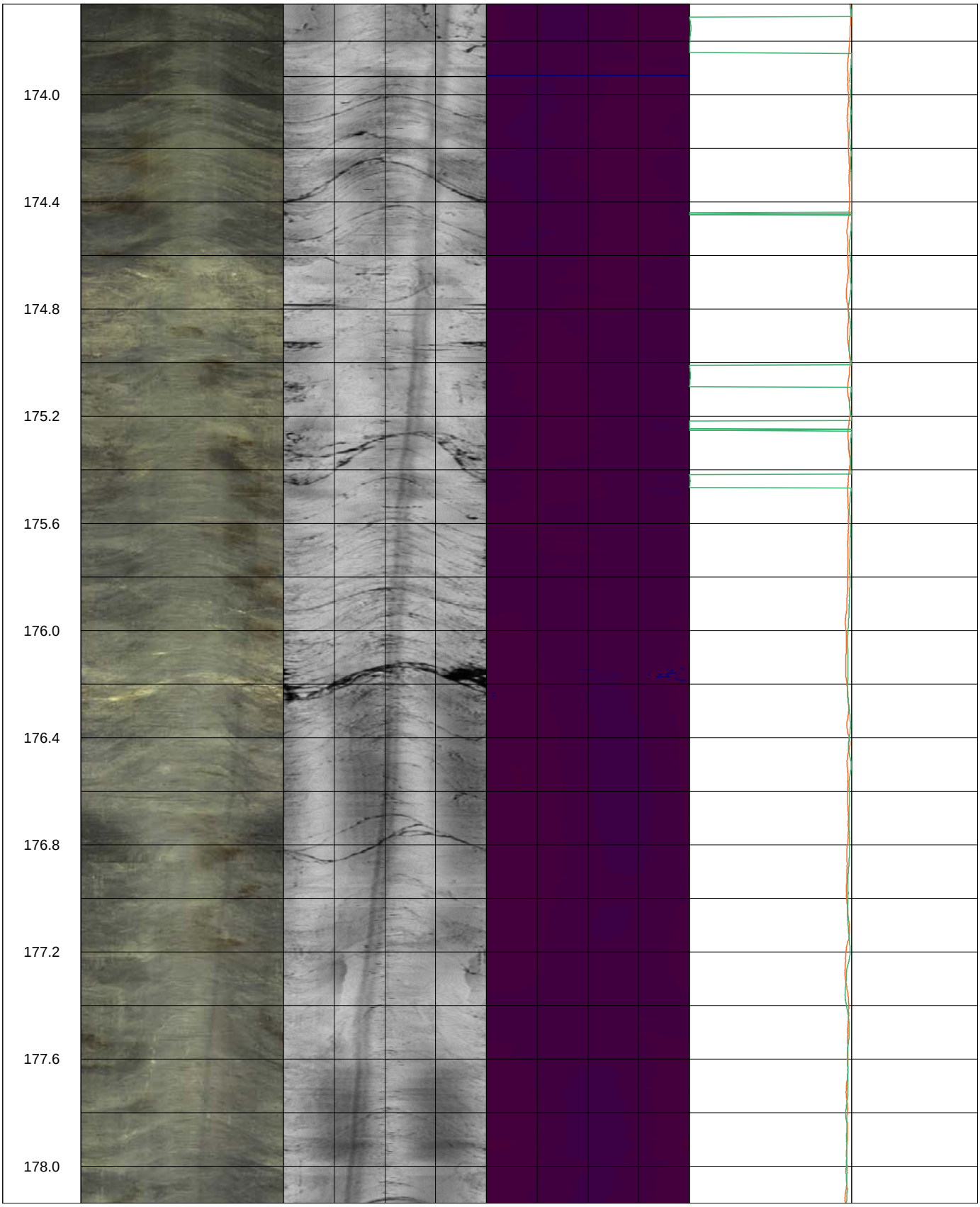

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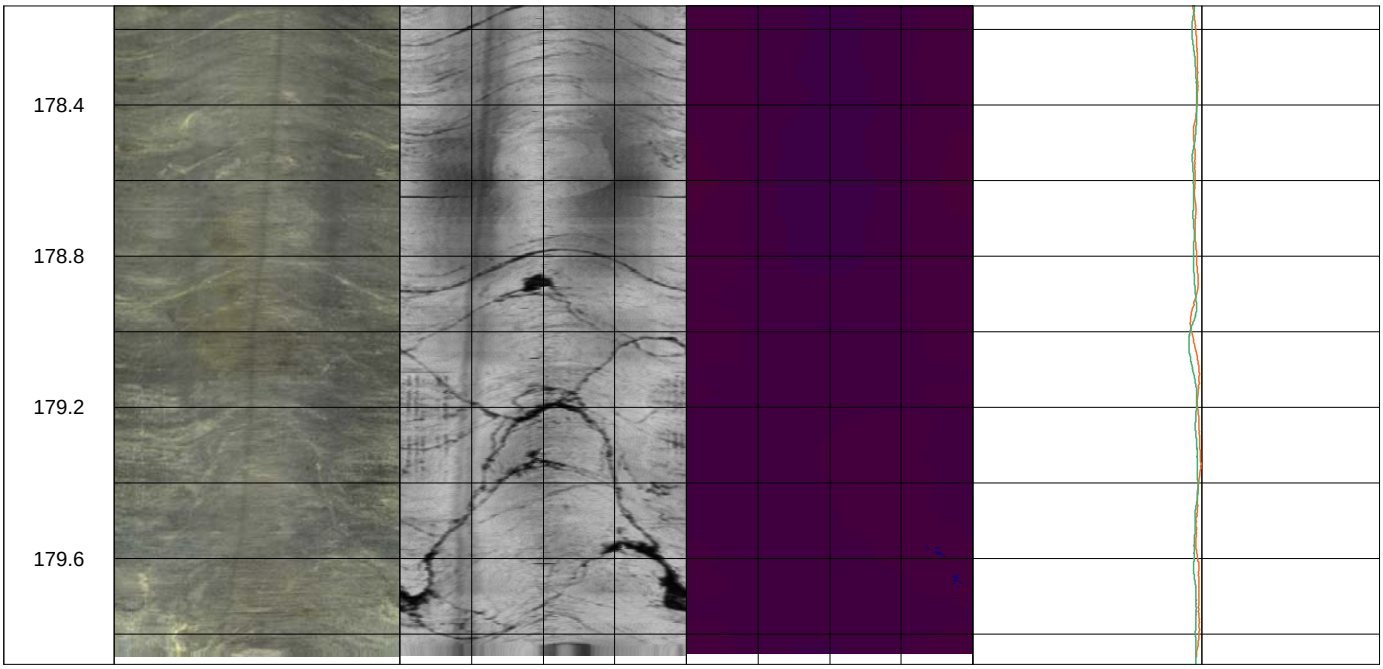
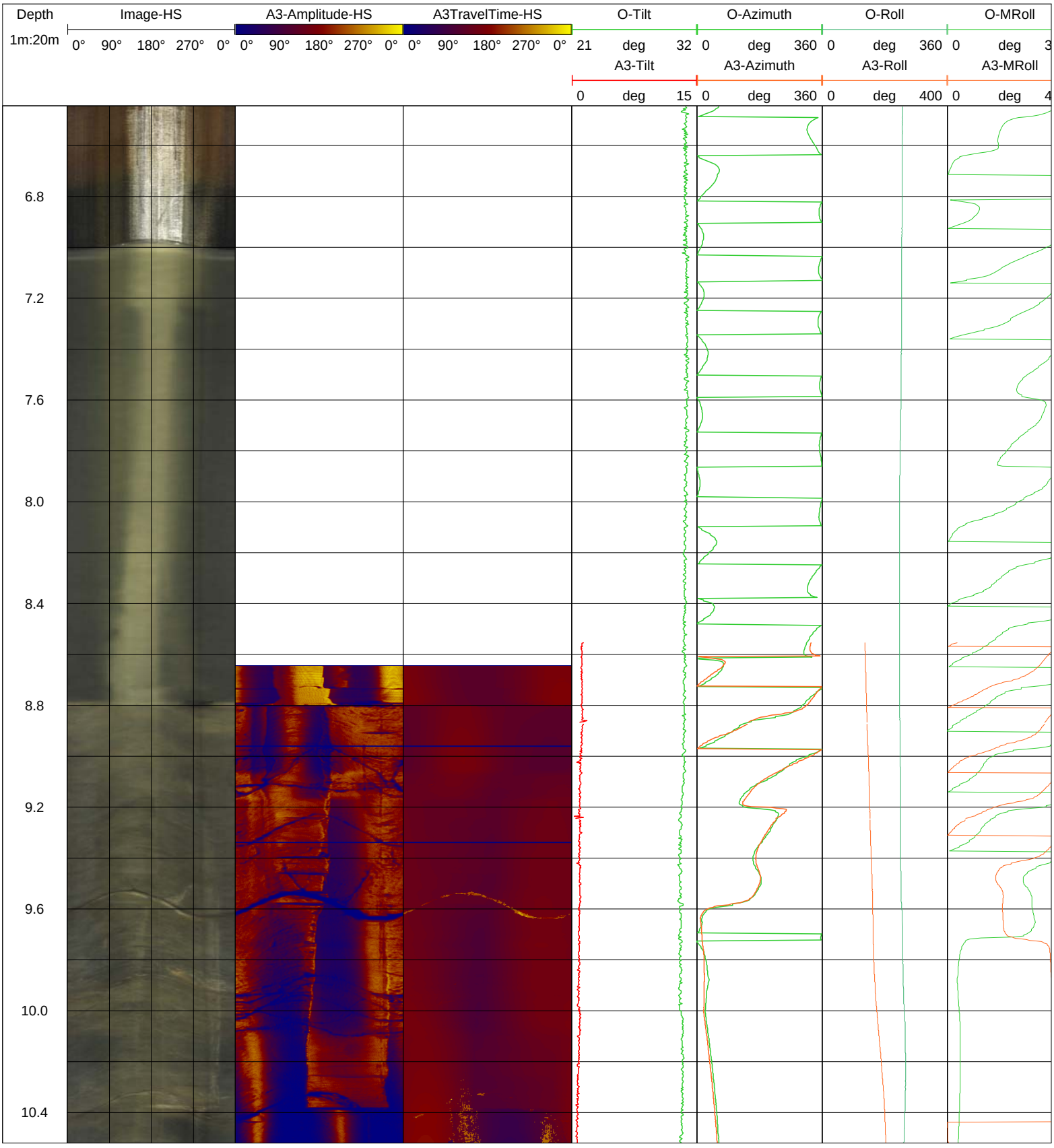


K17-438 Opictal & Acoustic Televiewer Survey



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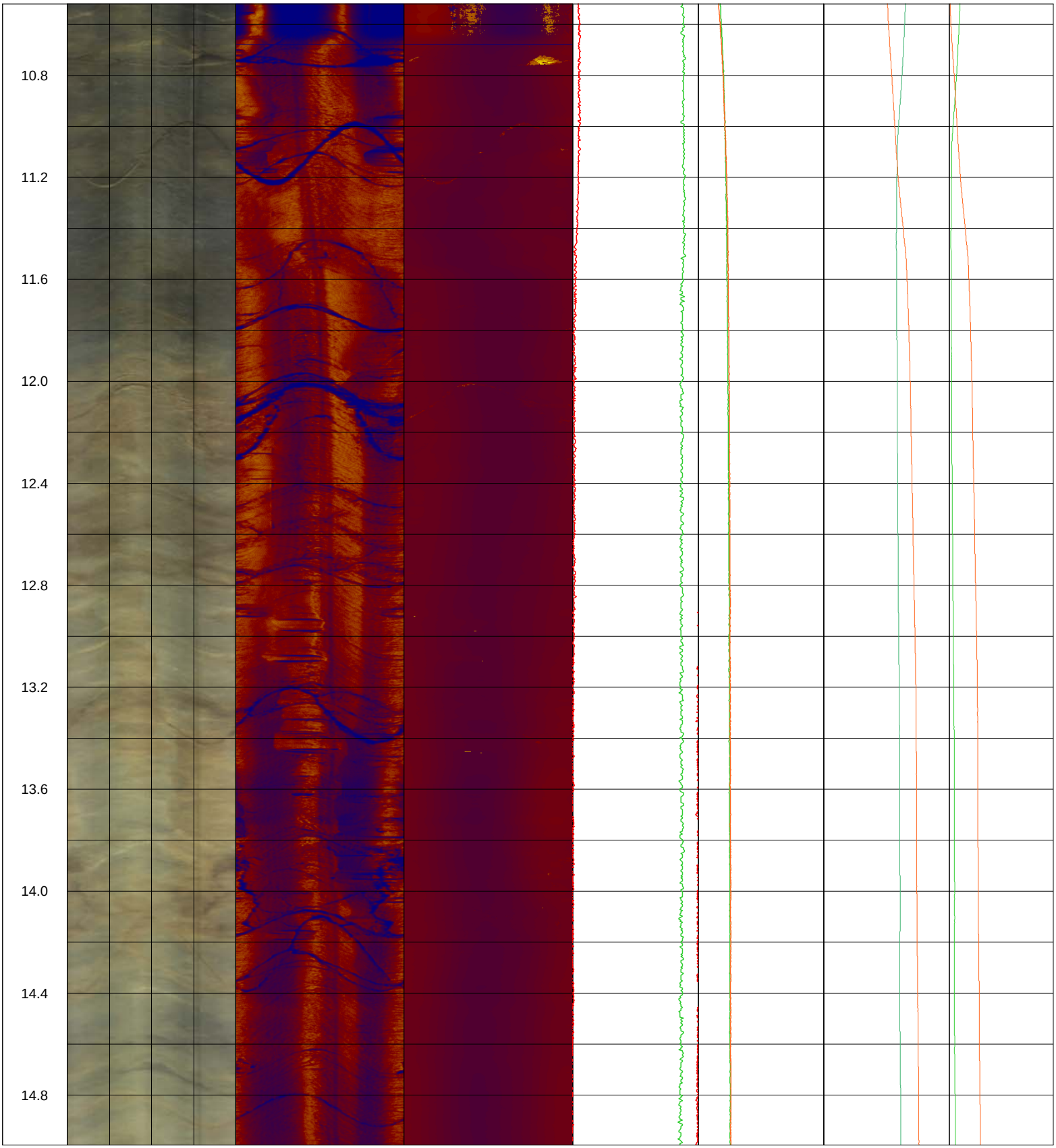

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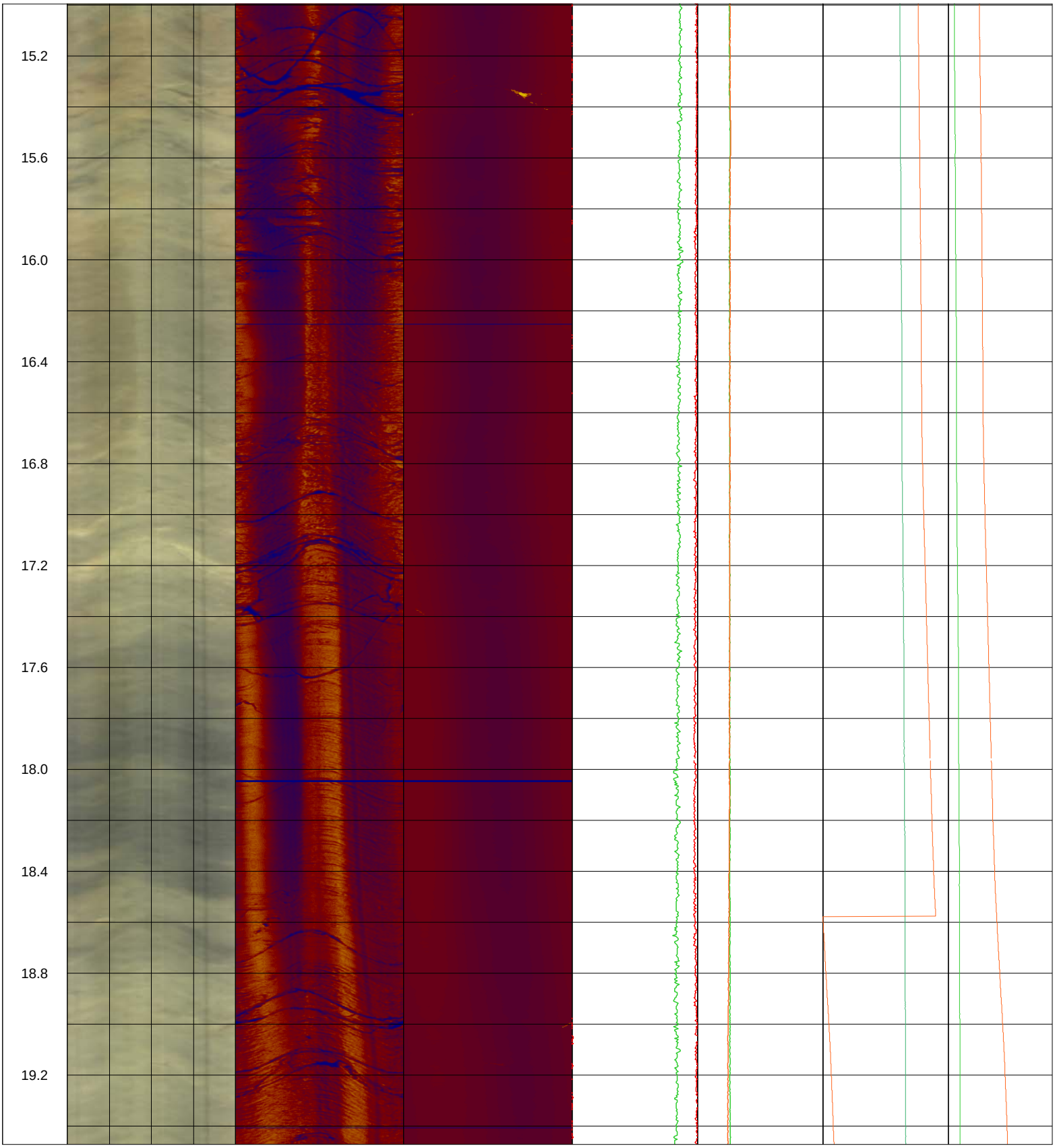

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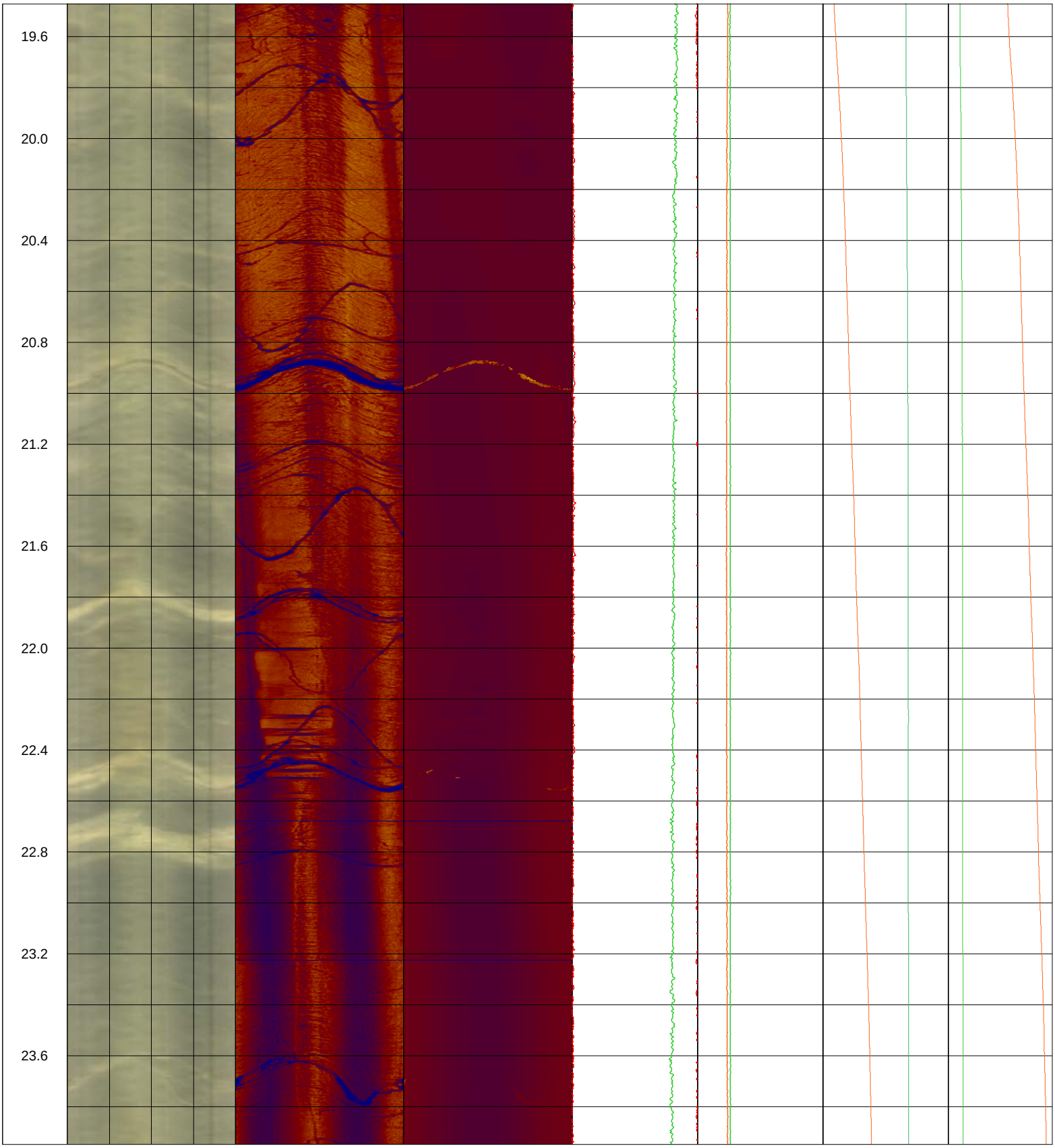

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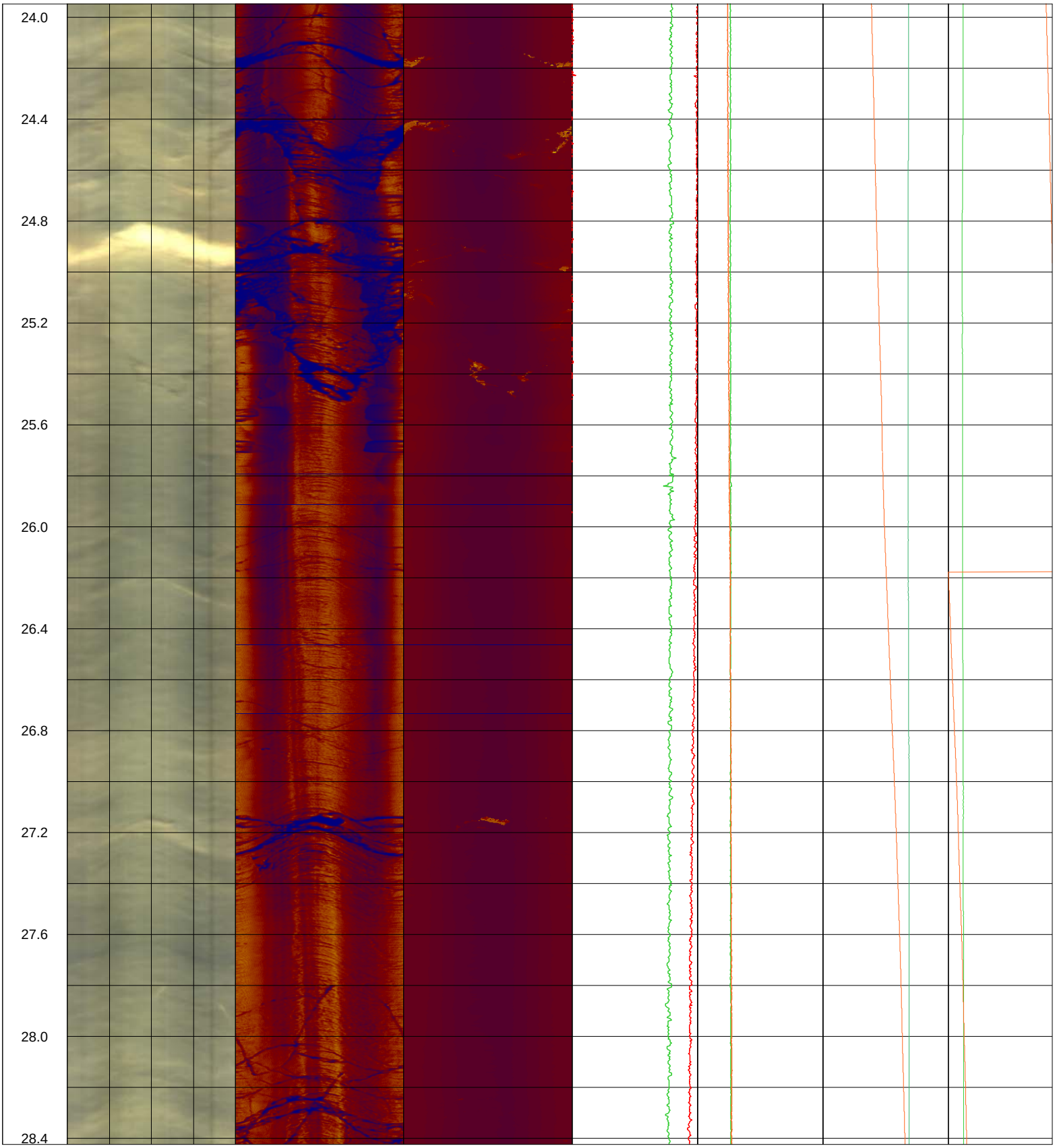

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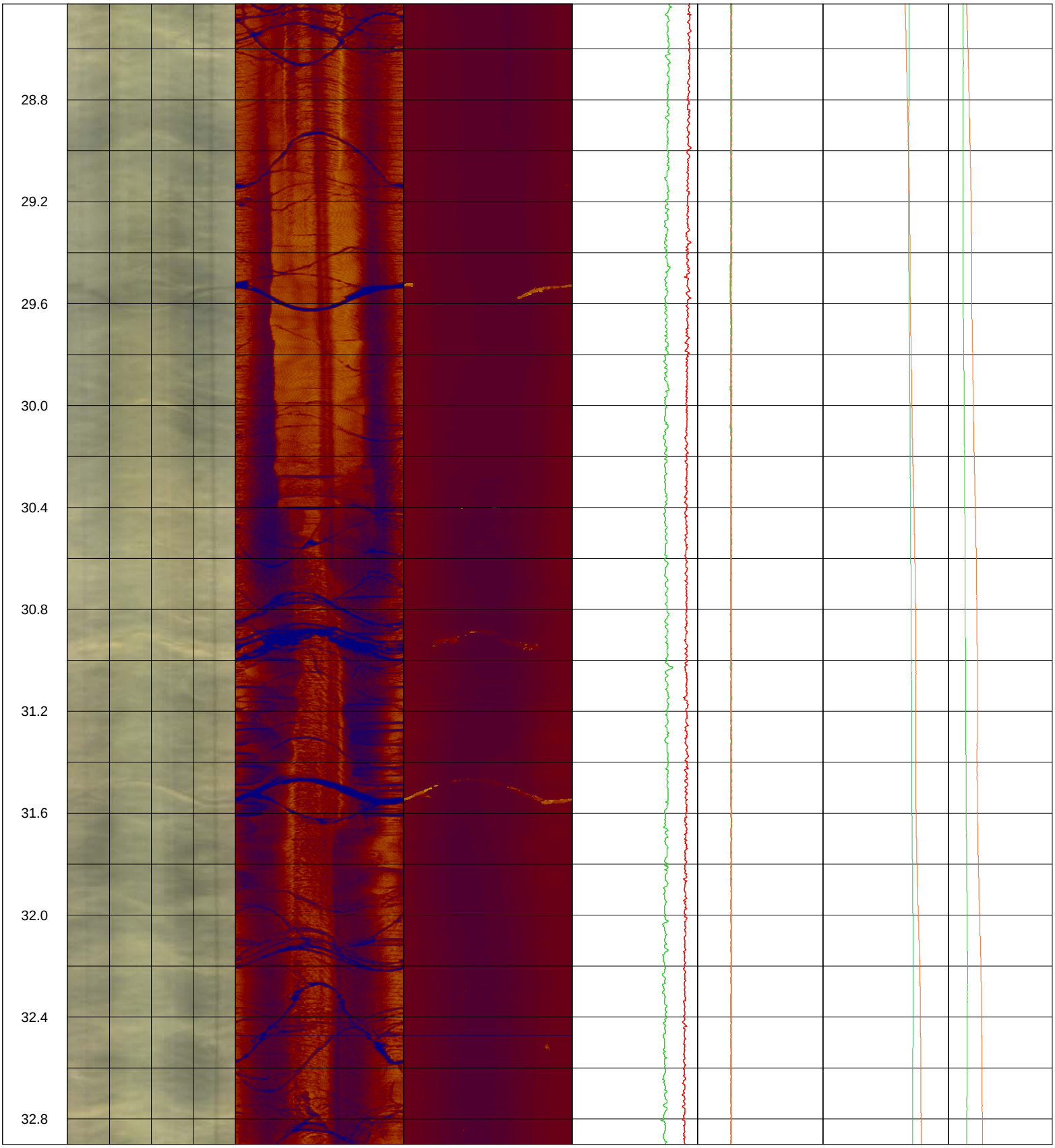

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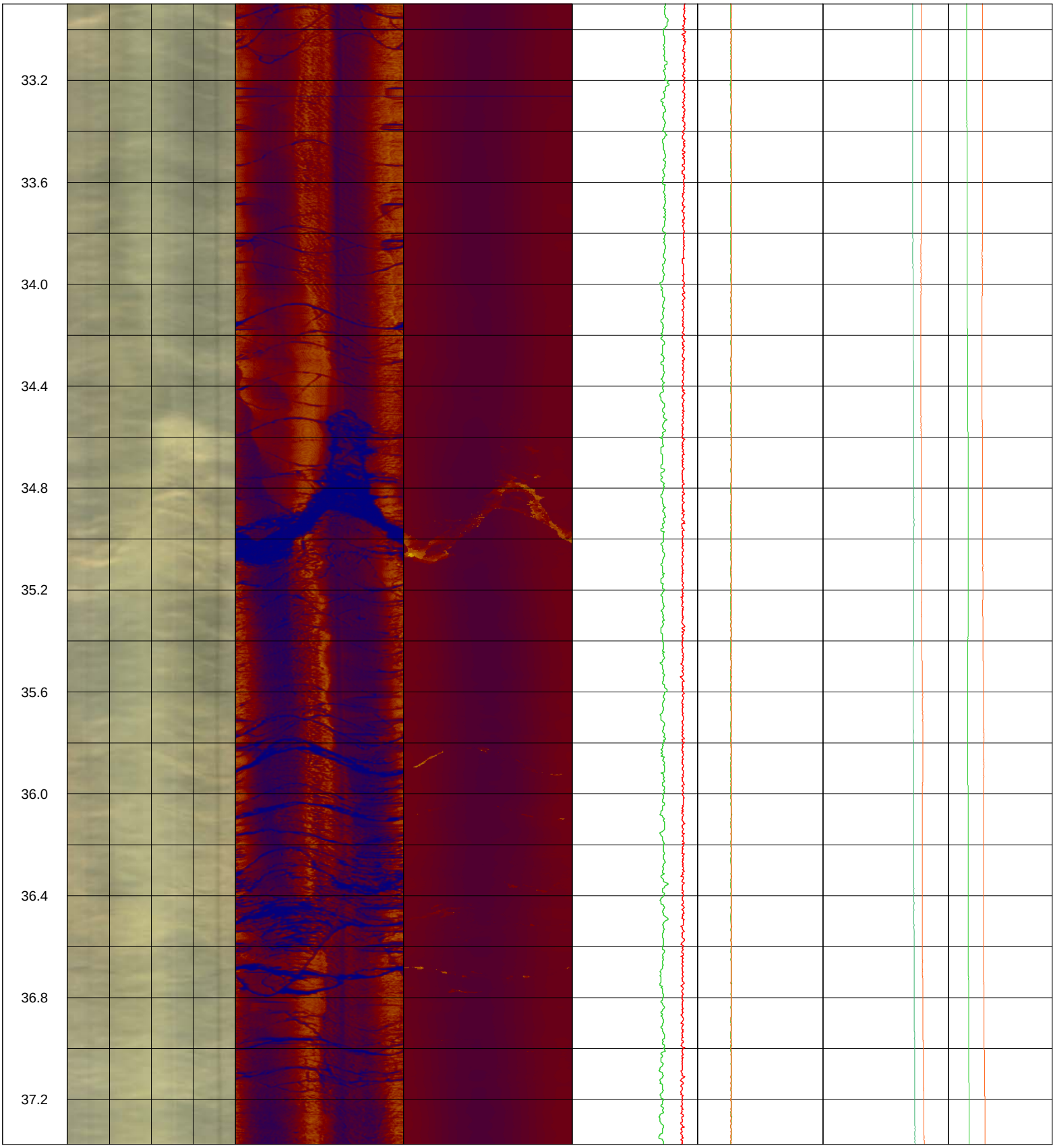

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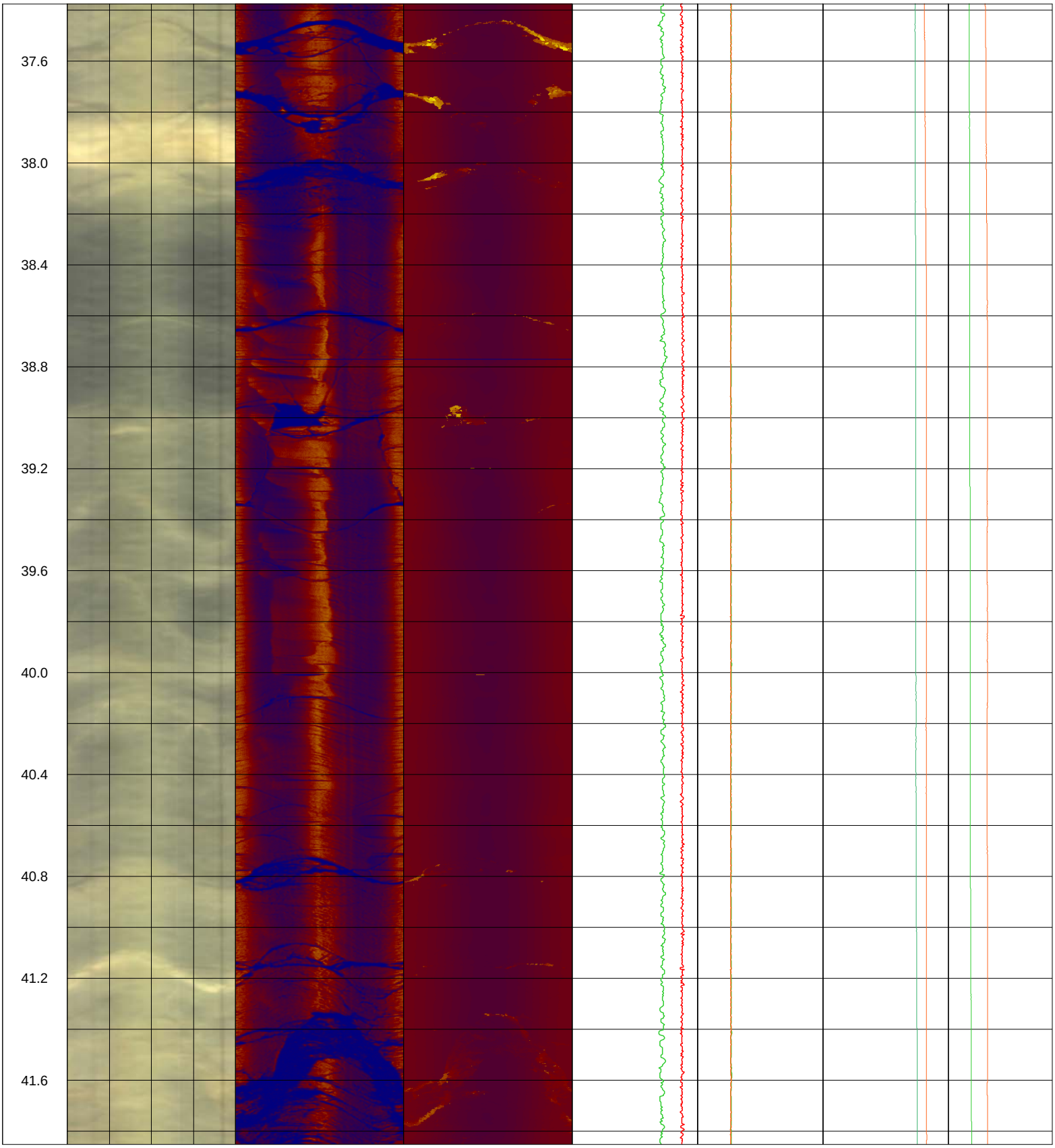

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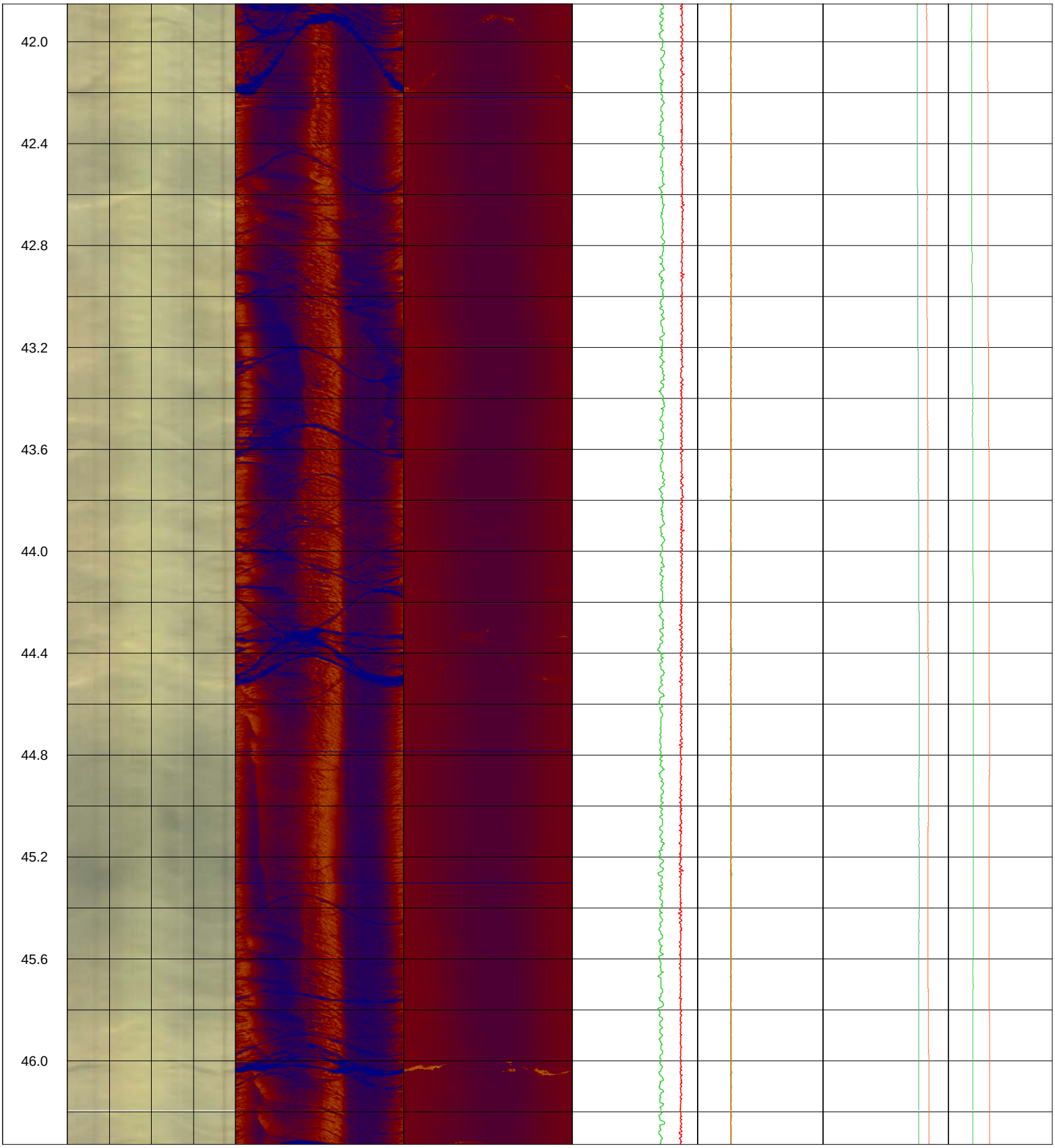

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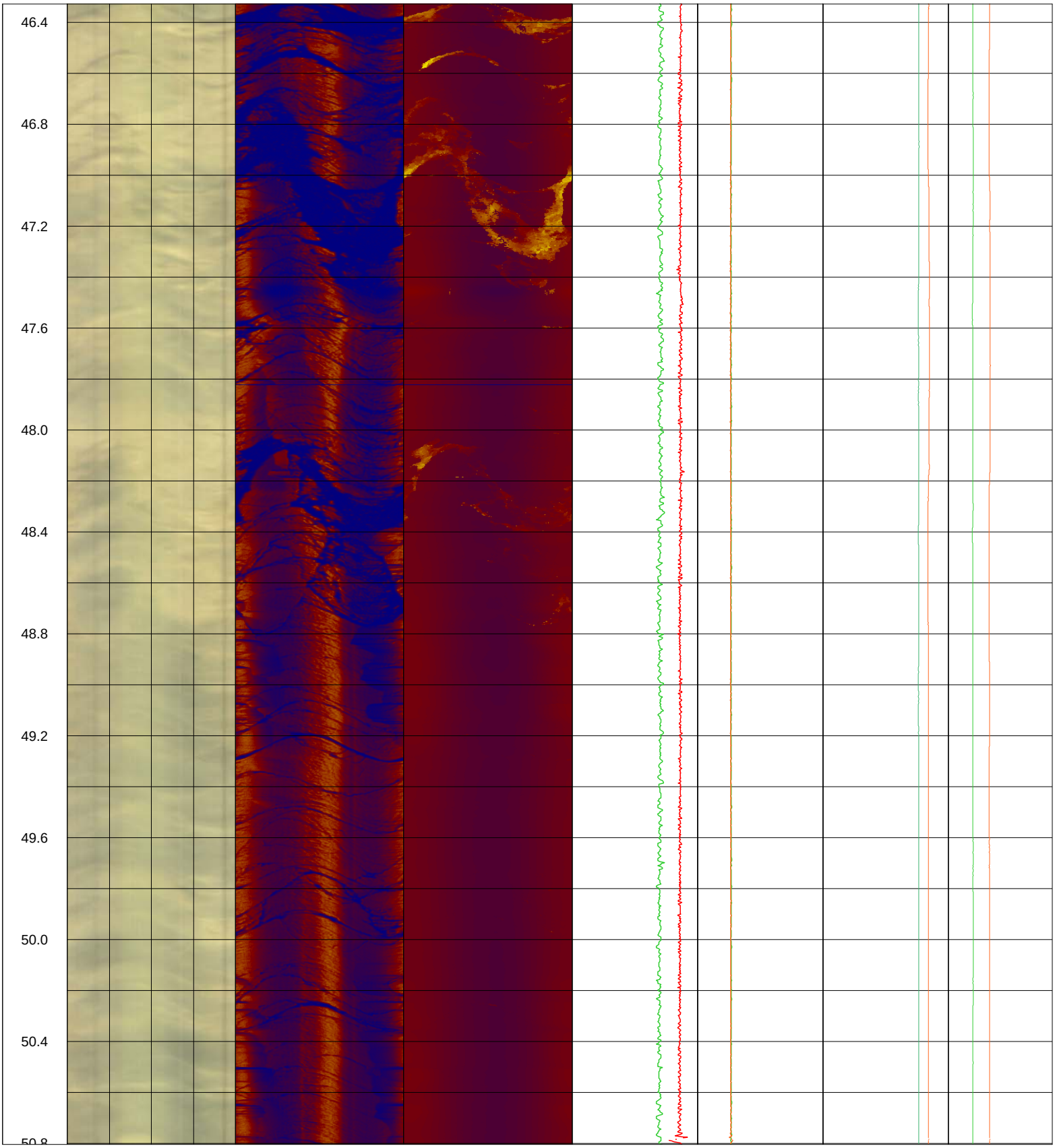

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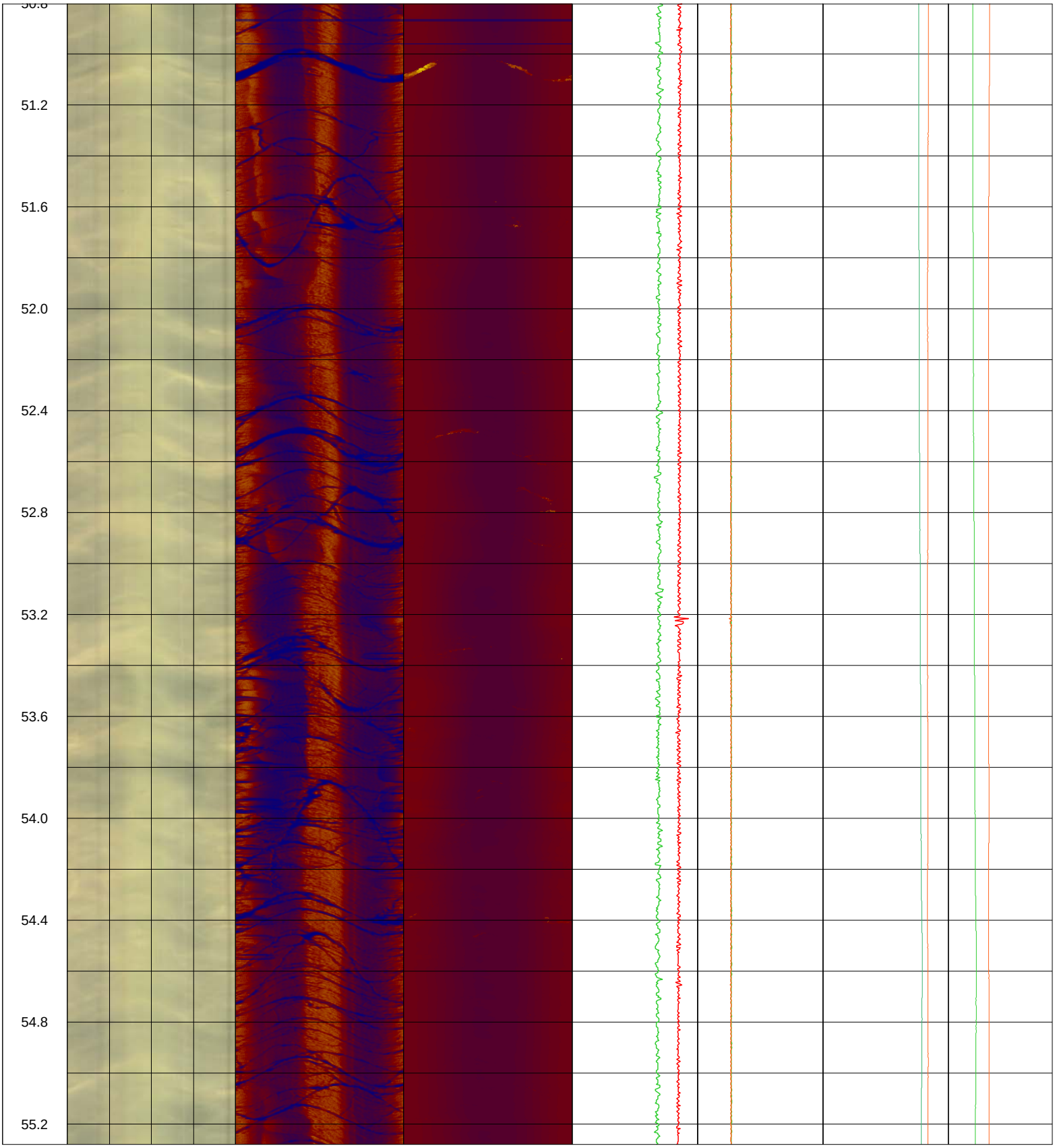

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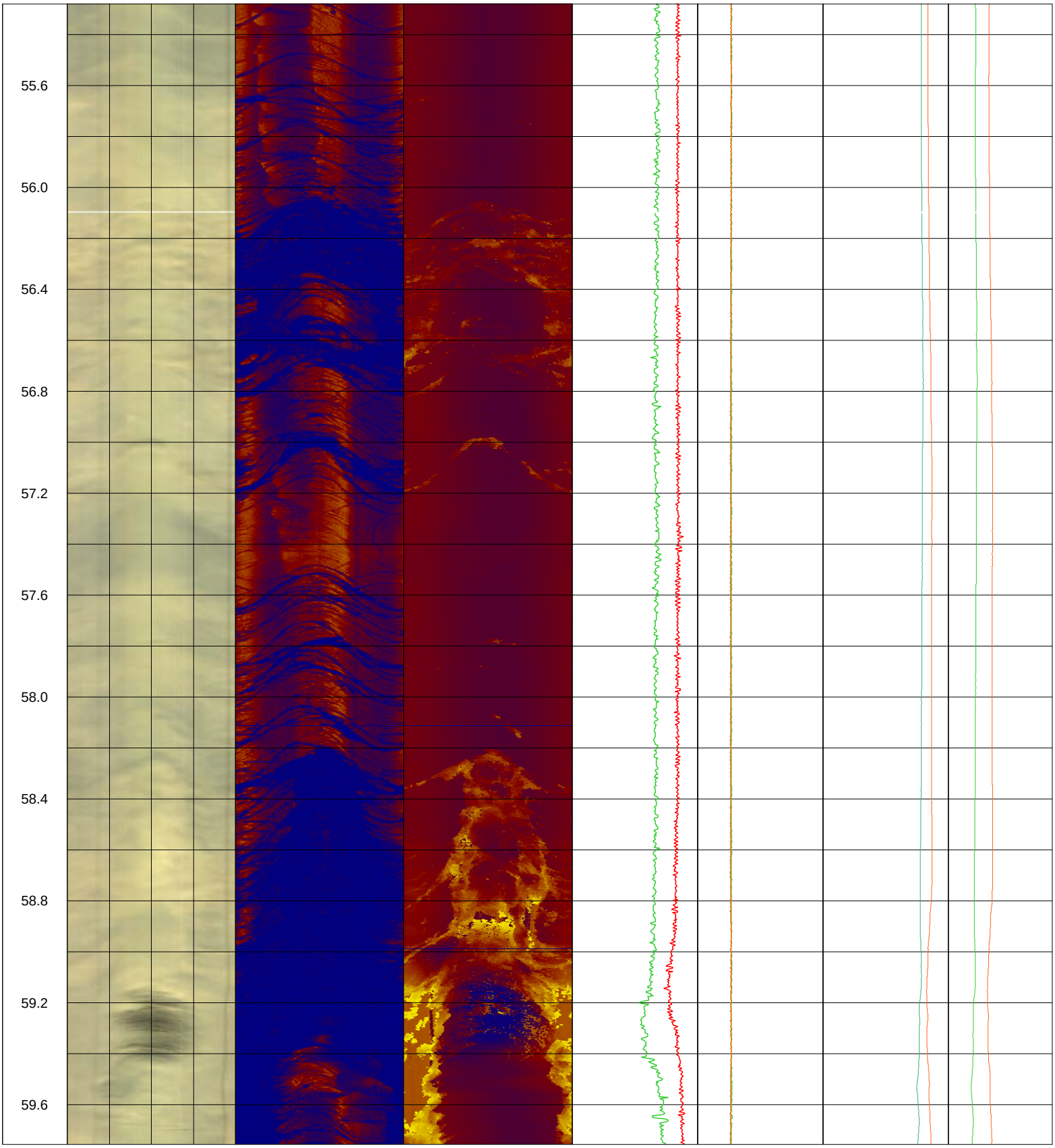

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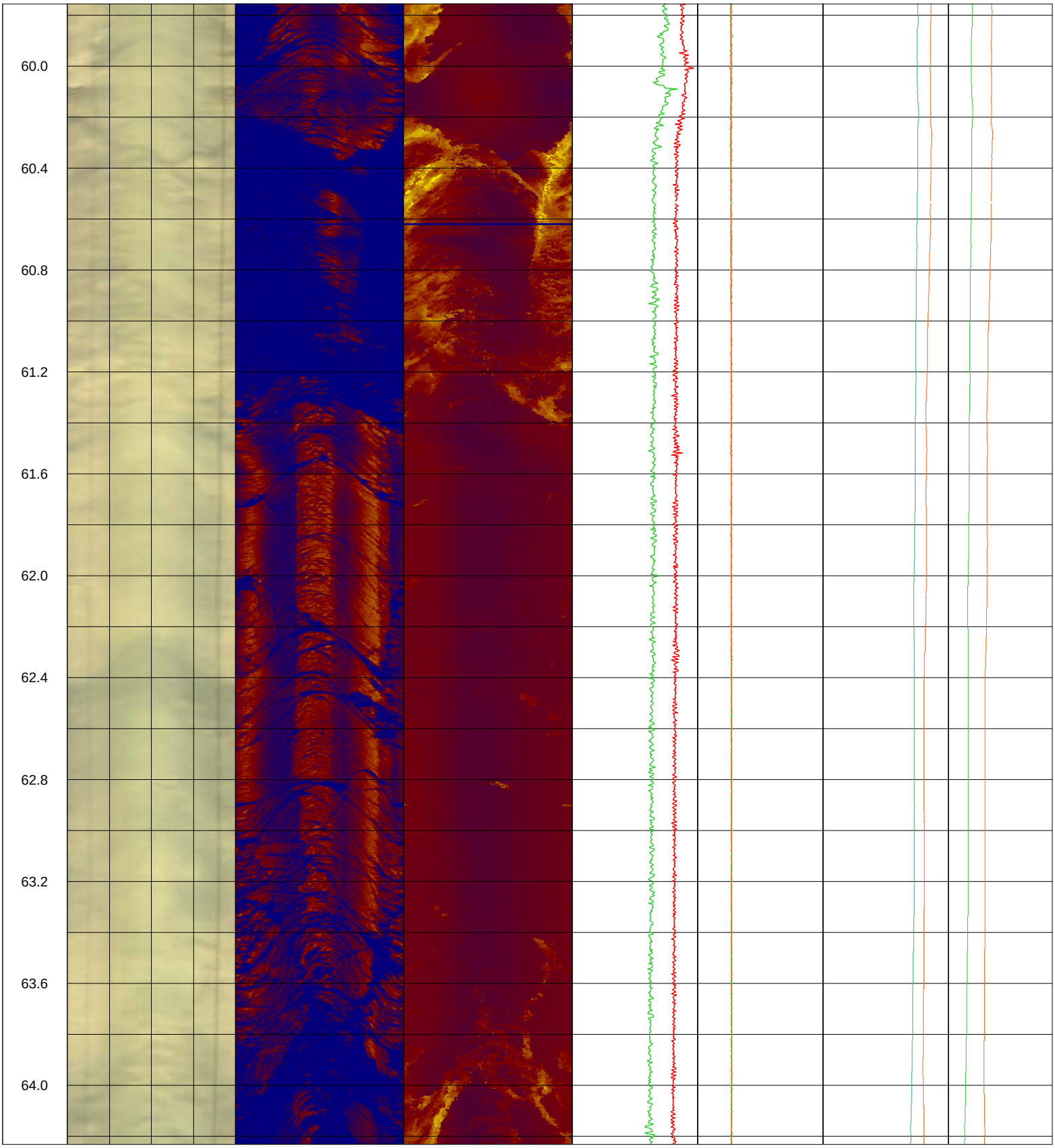

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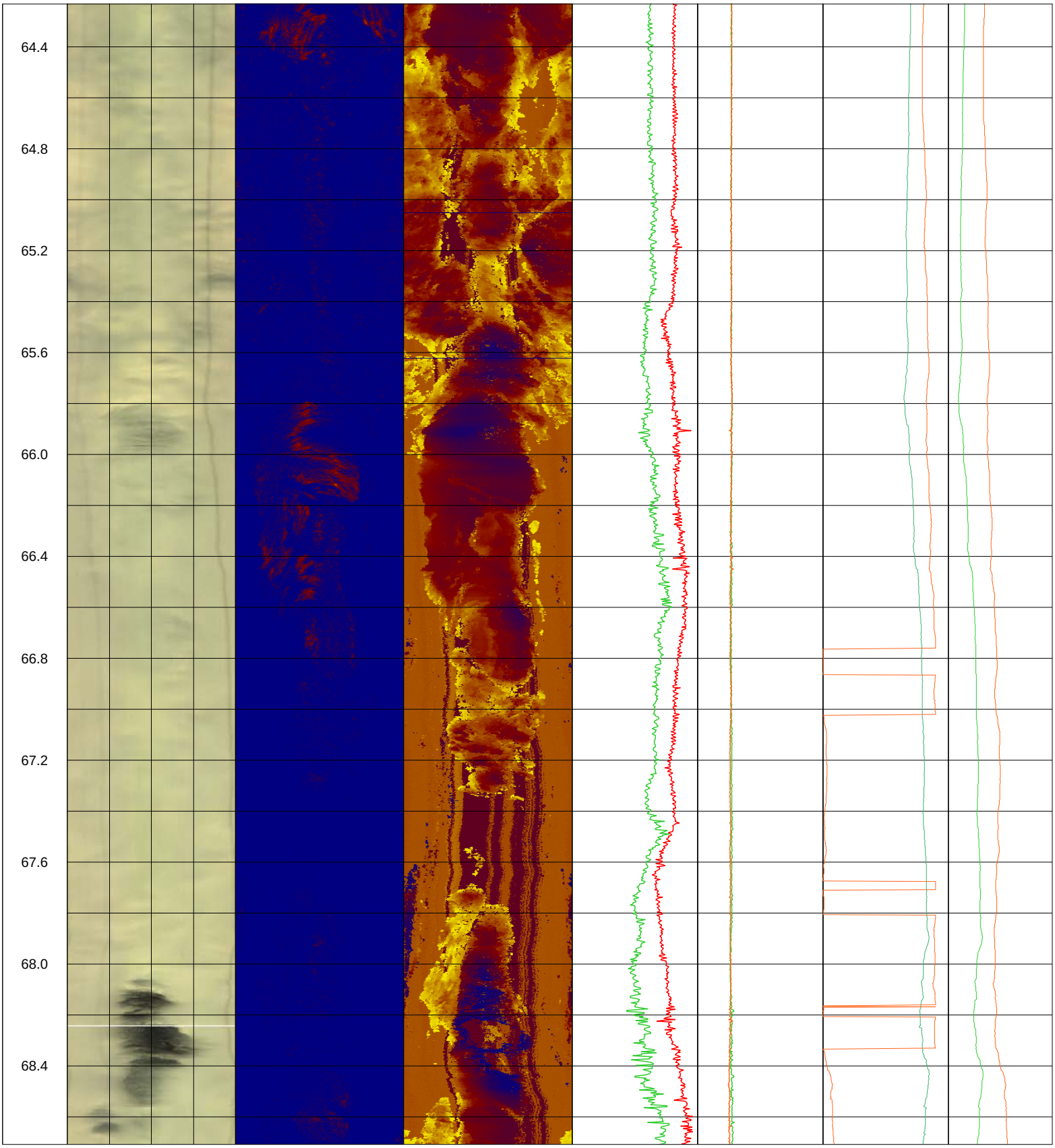

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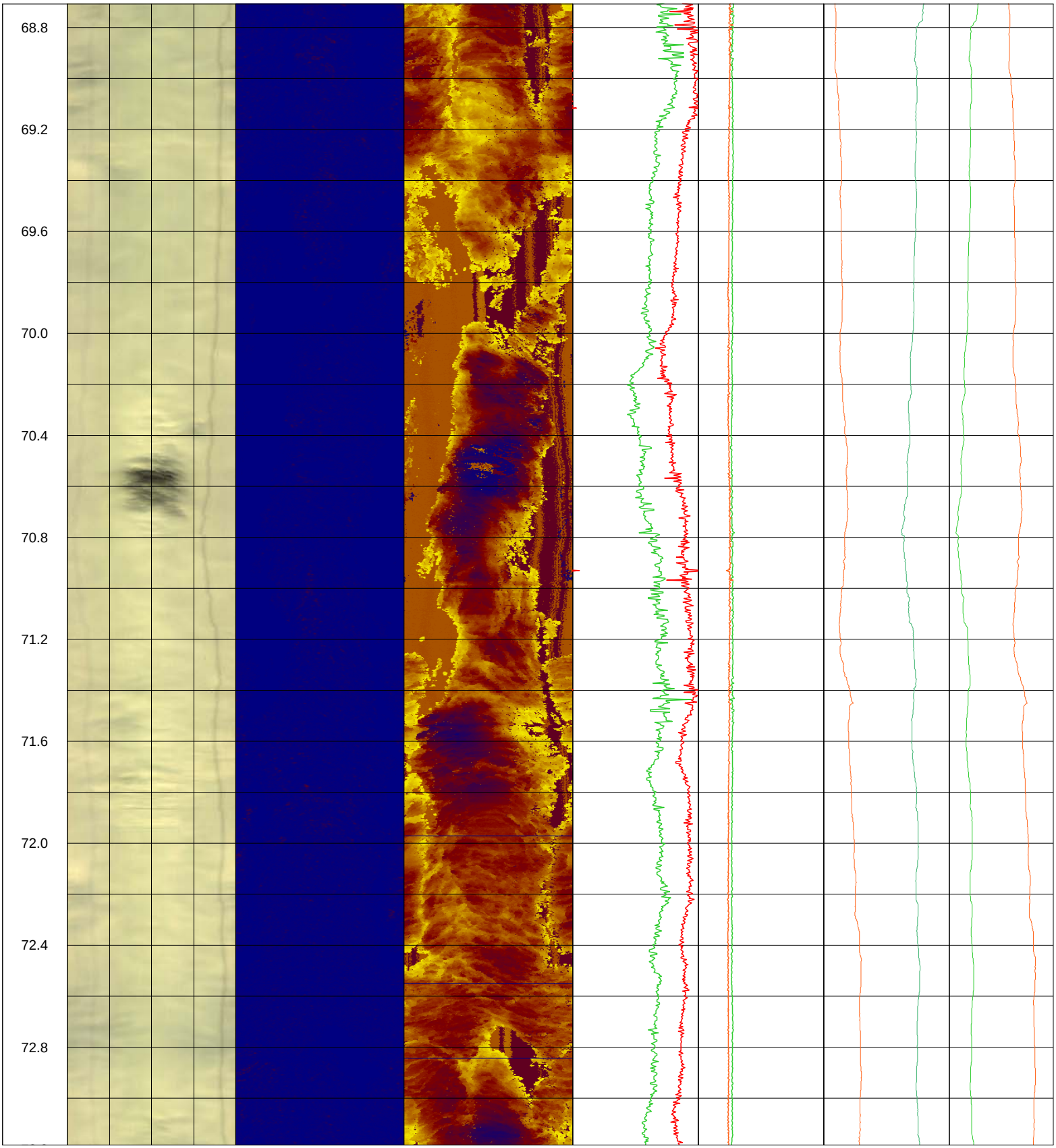

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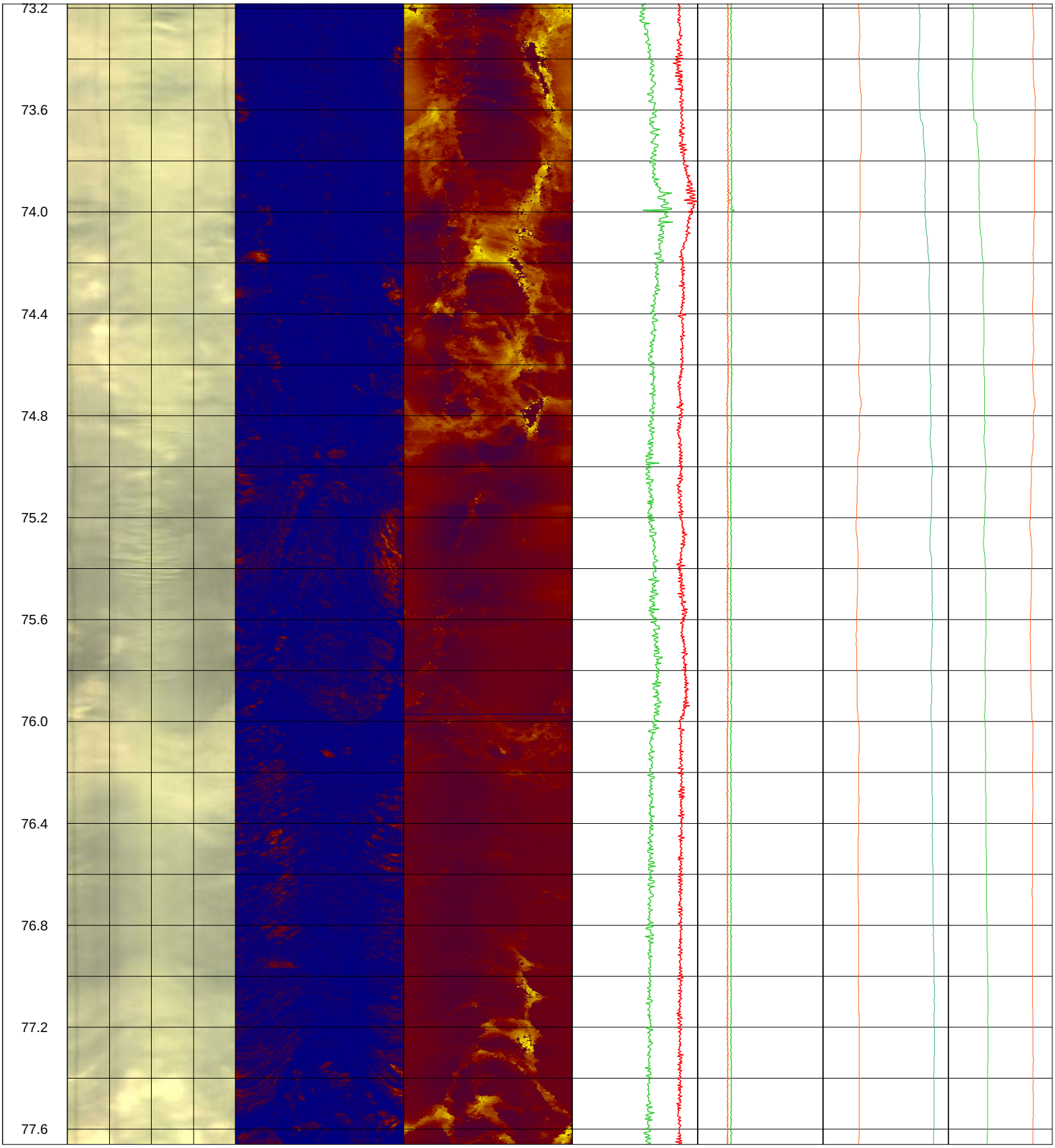

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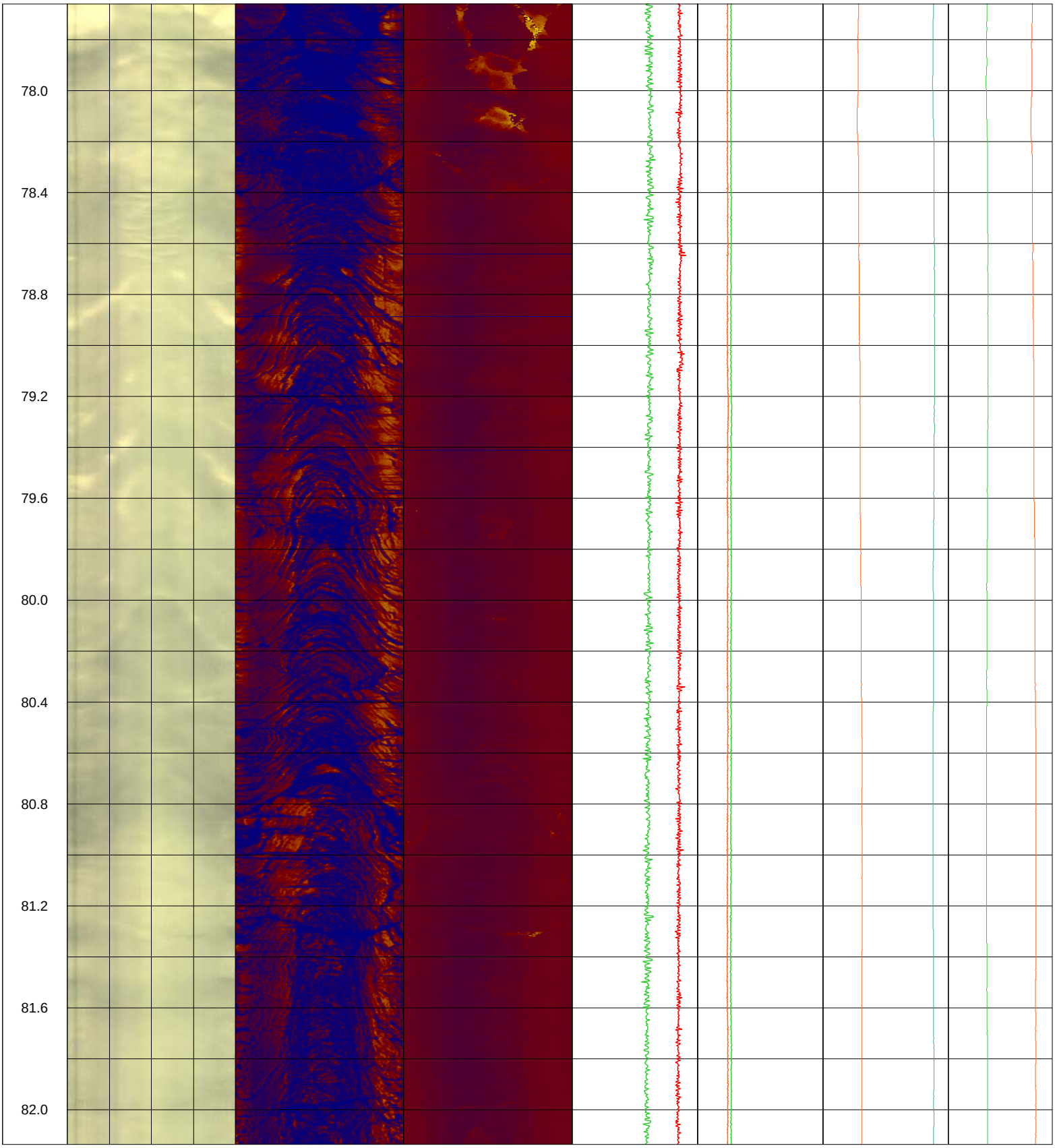

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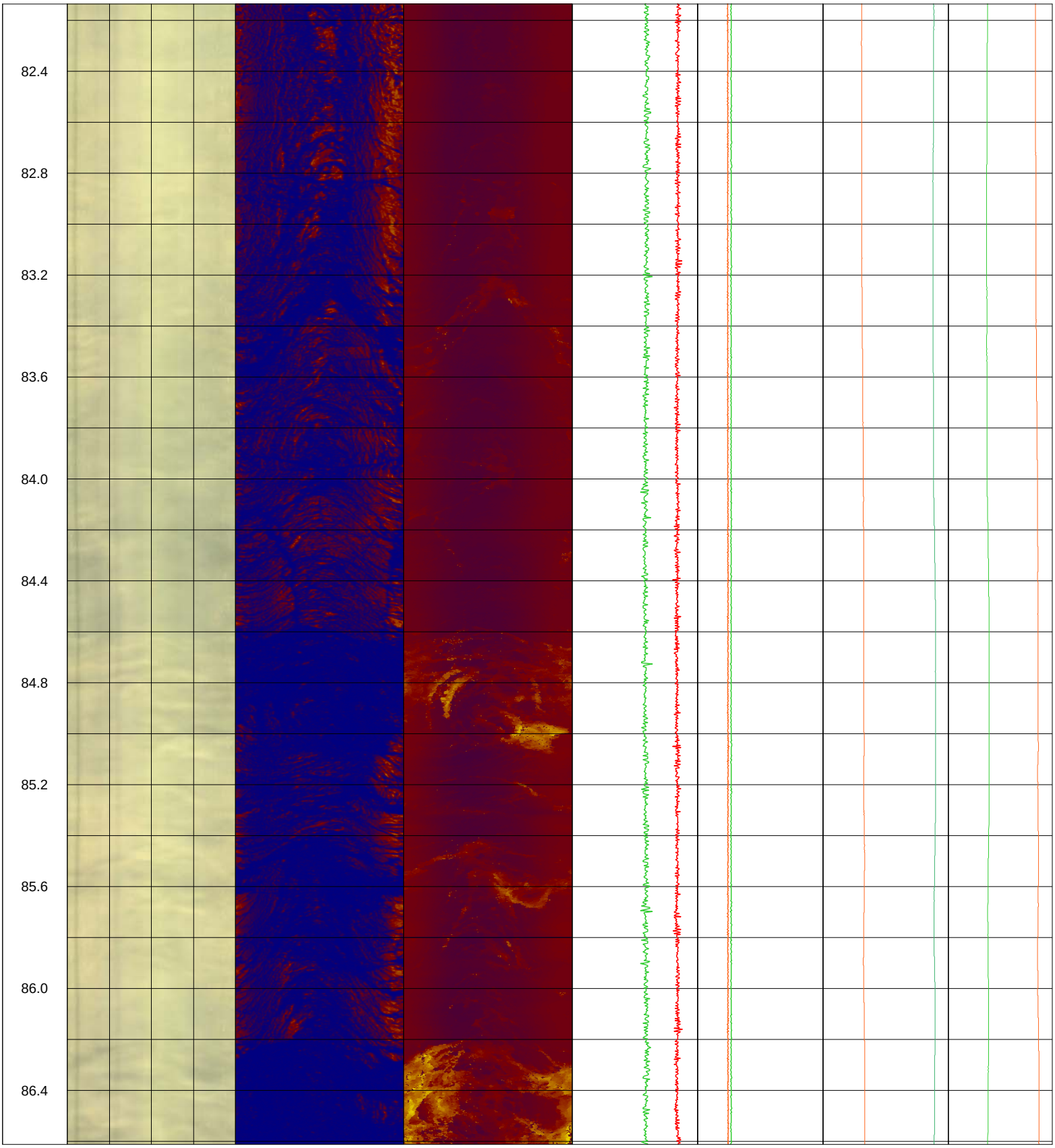

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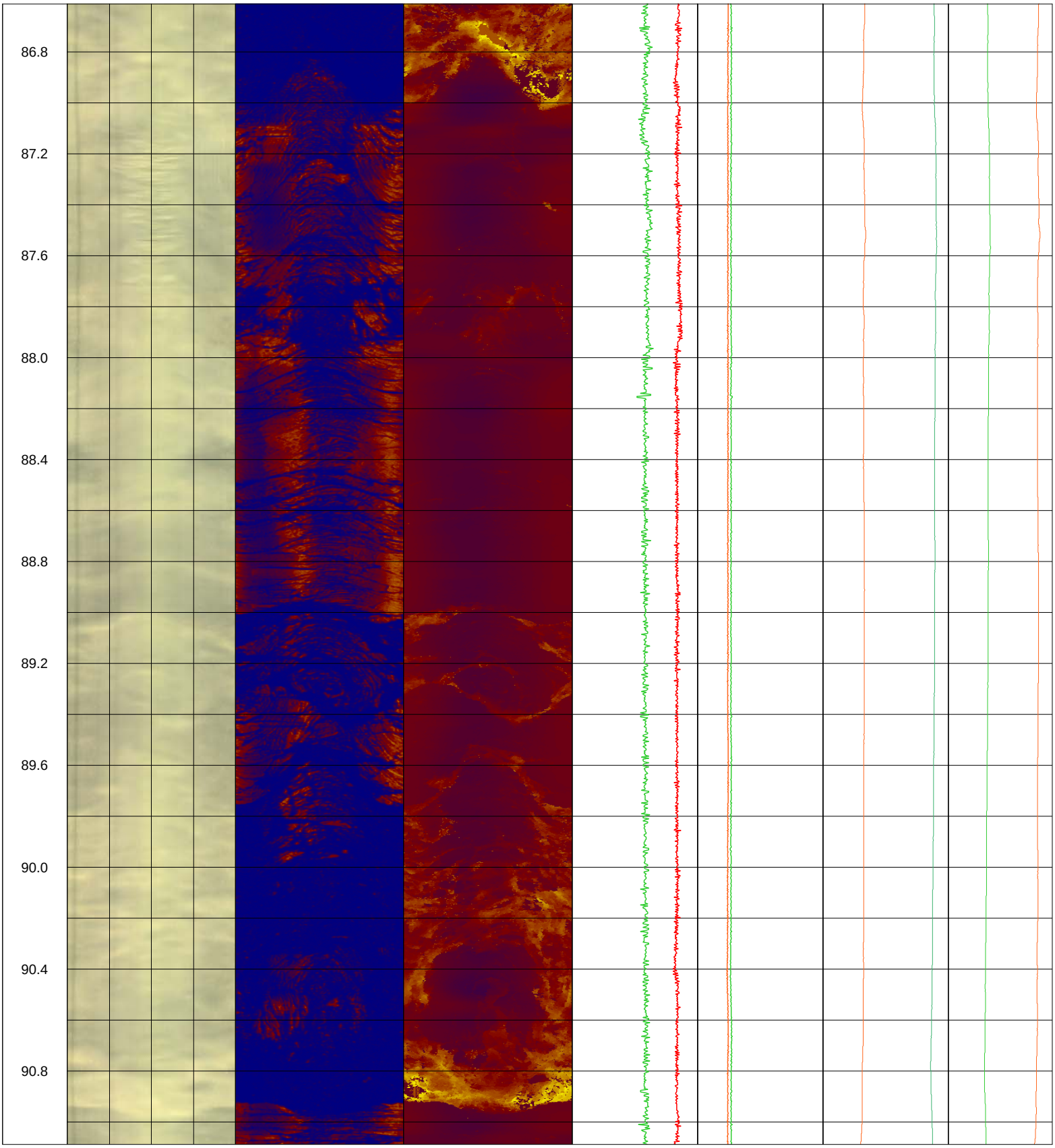

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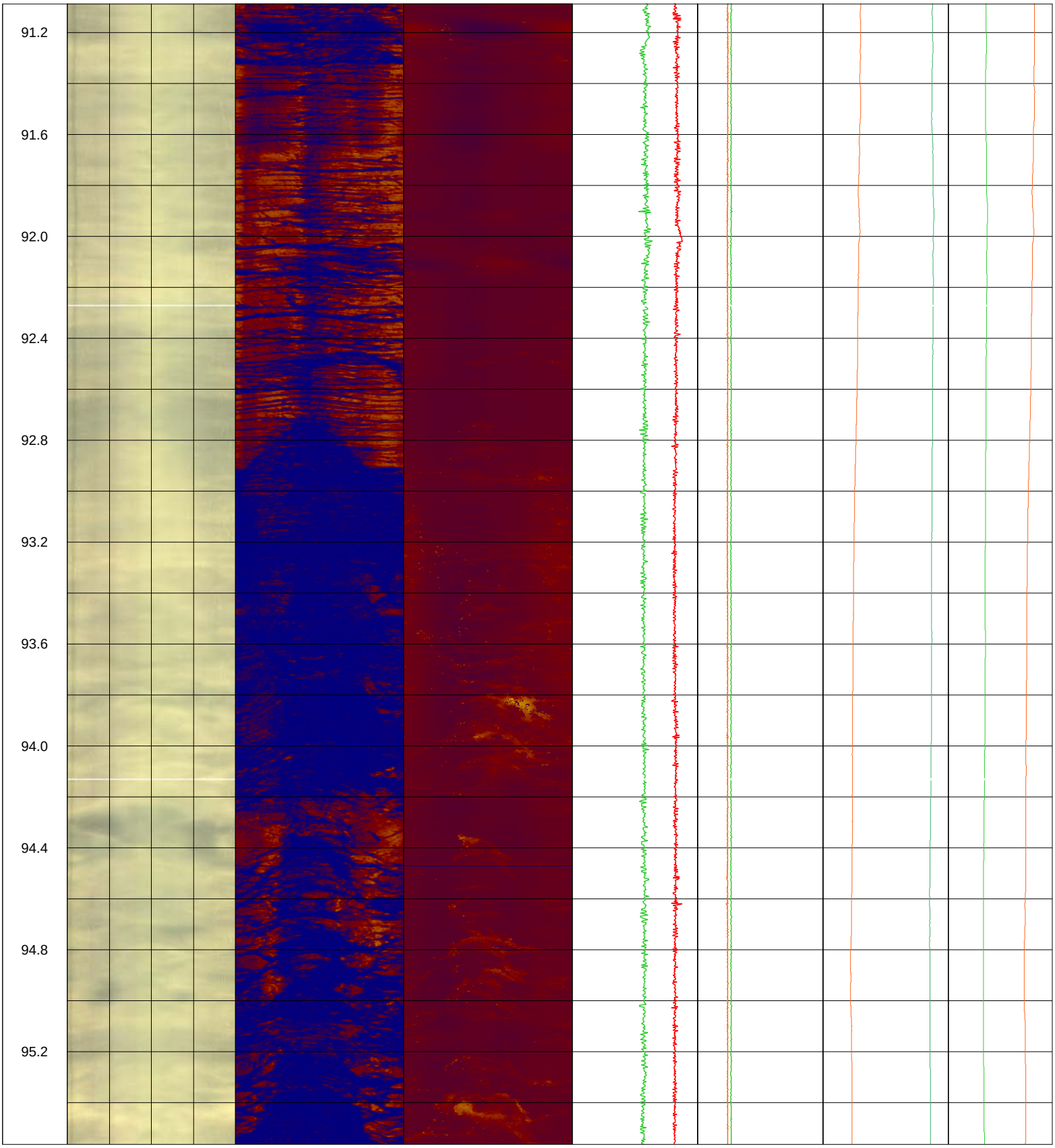

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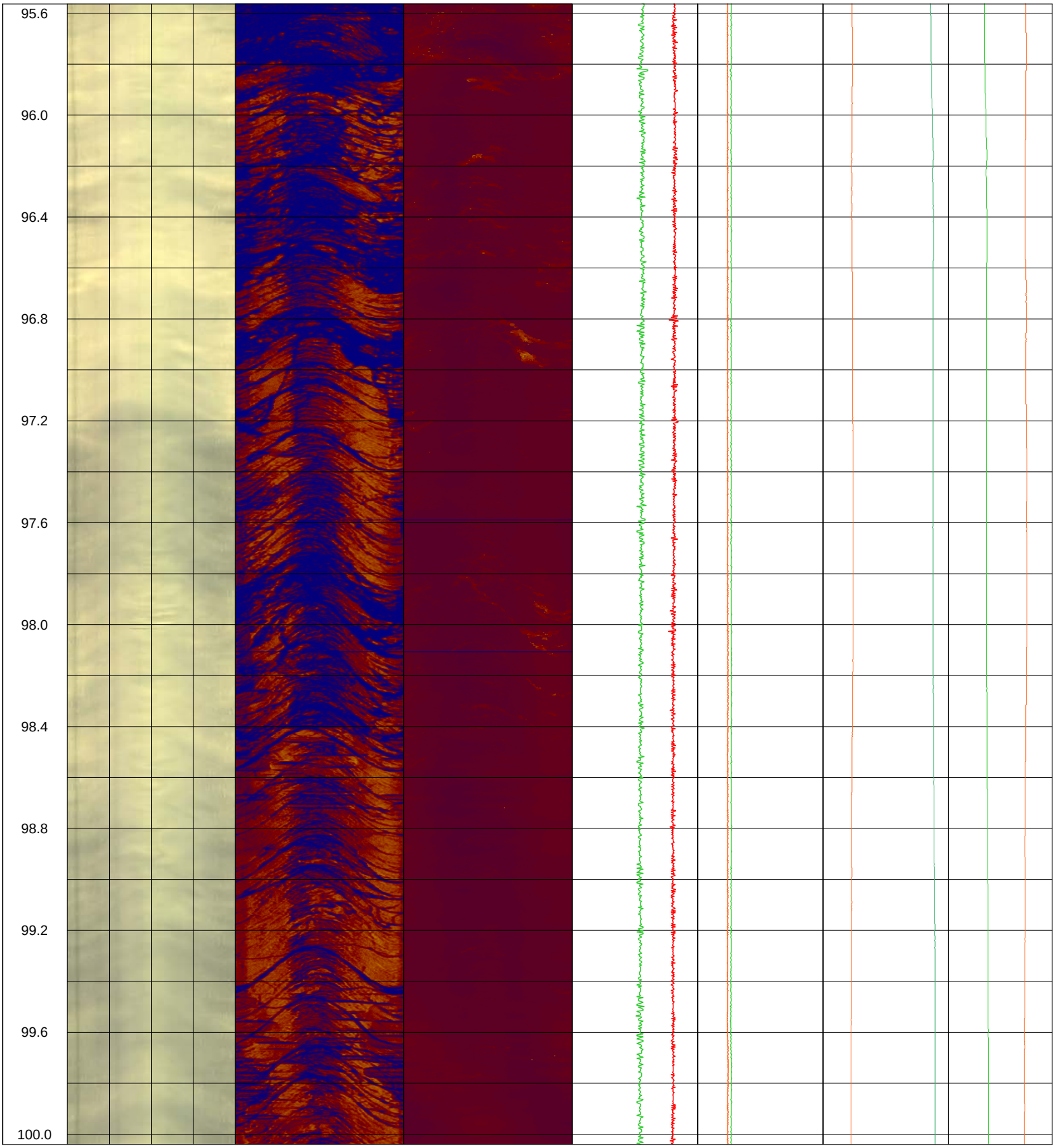

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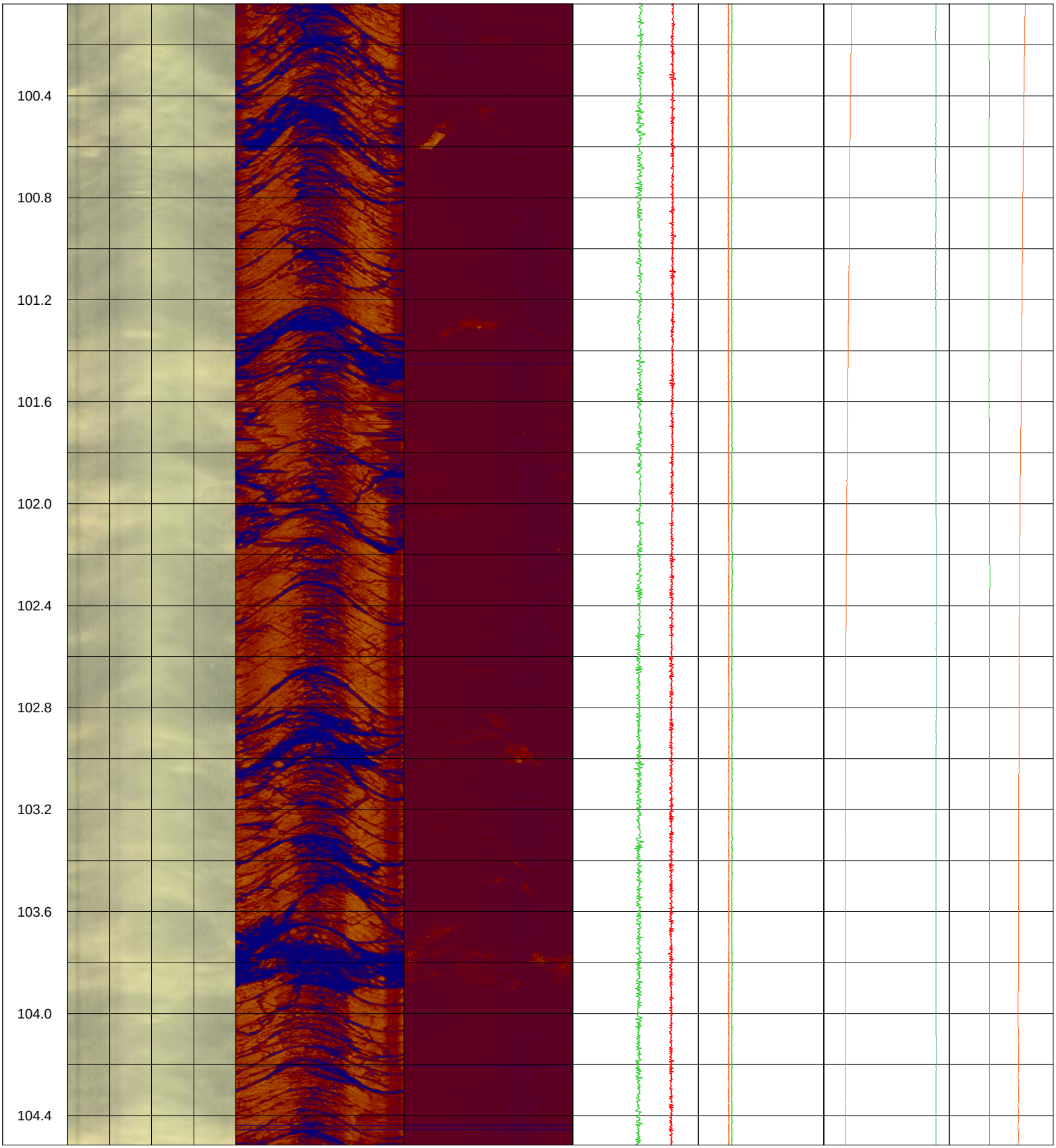

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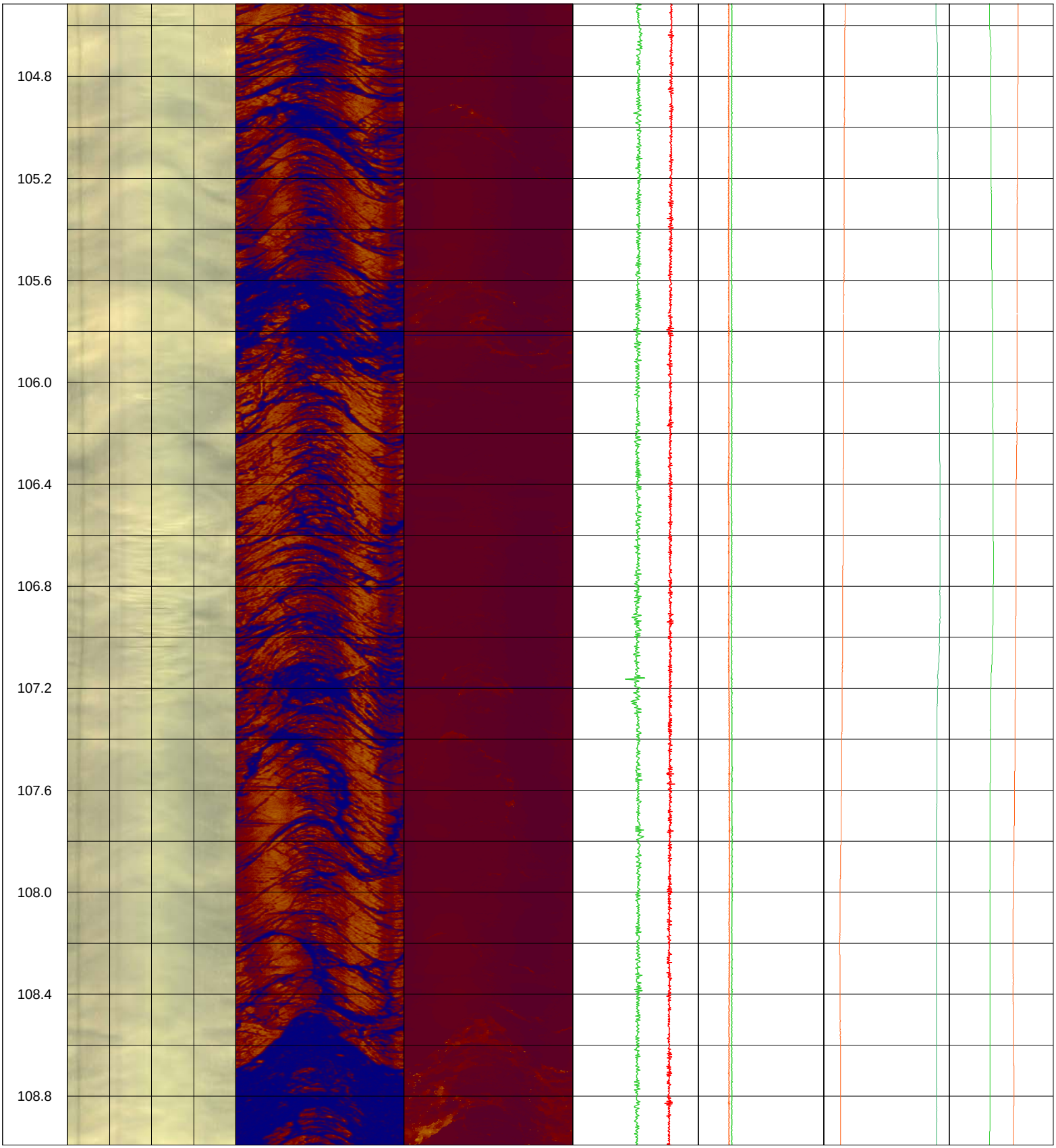

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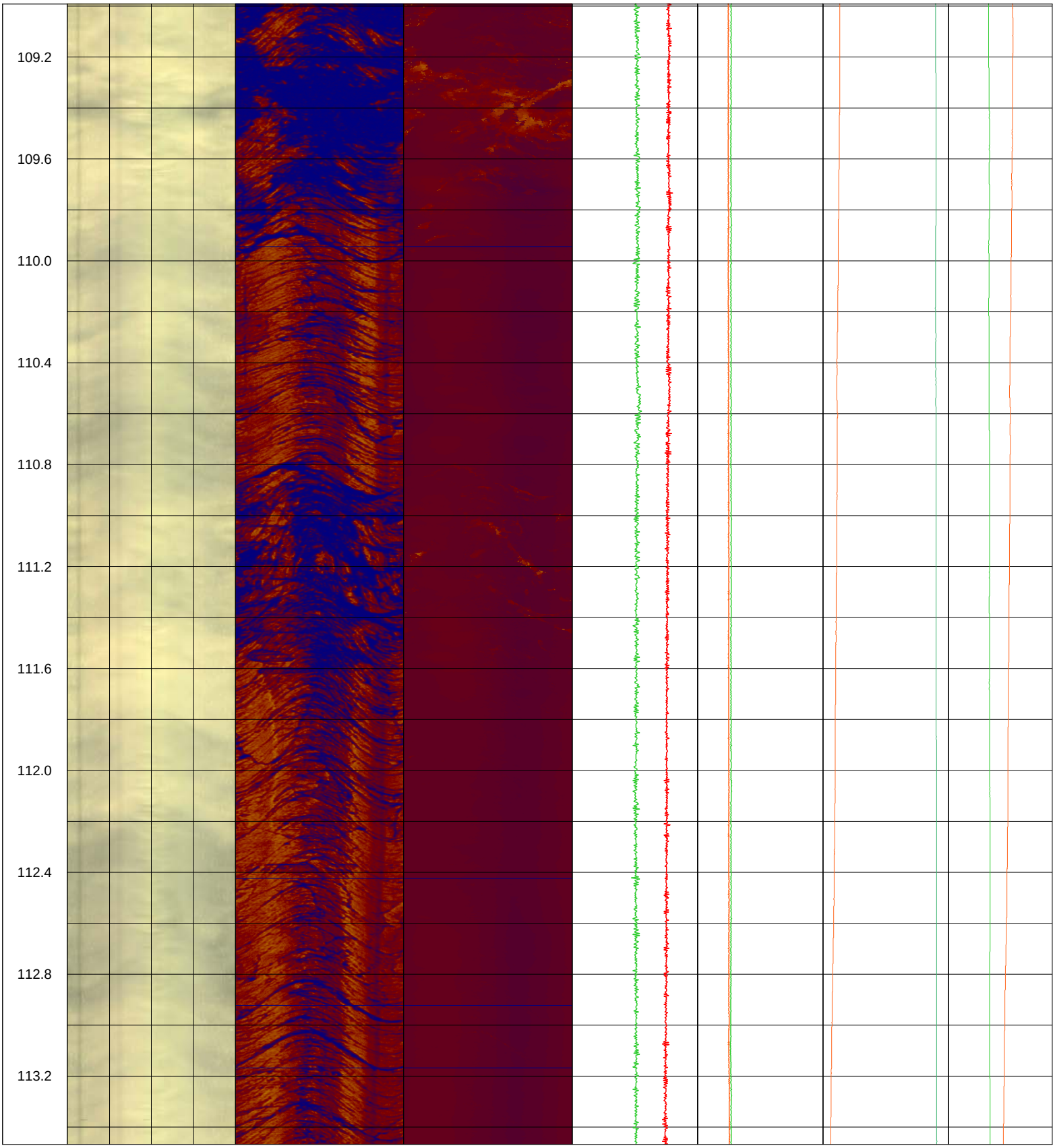
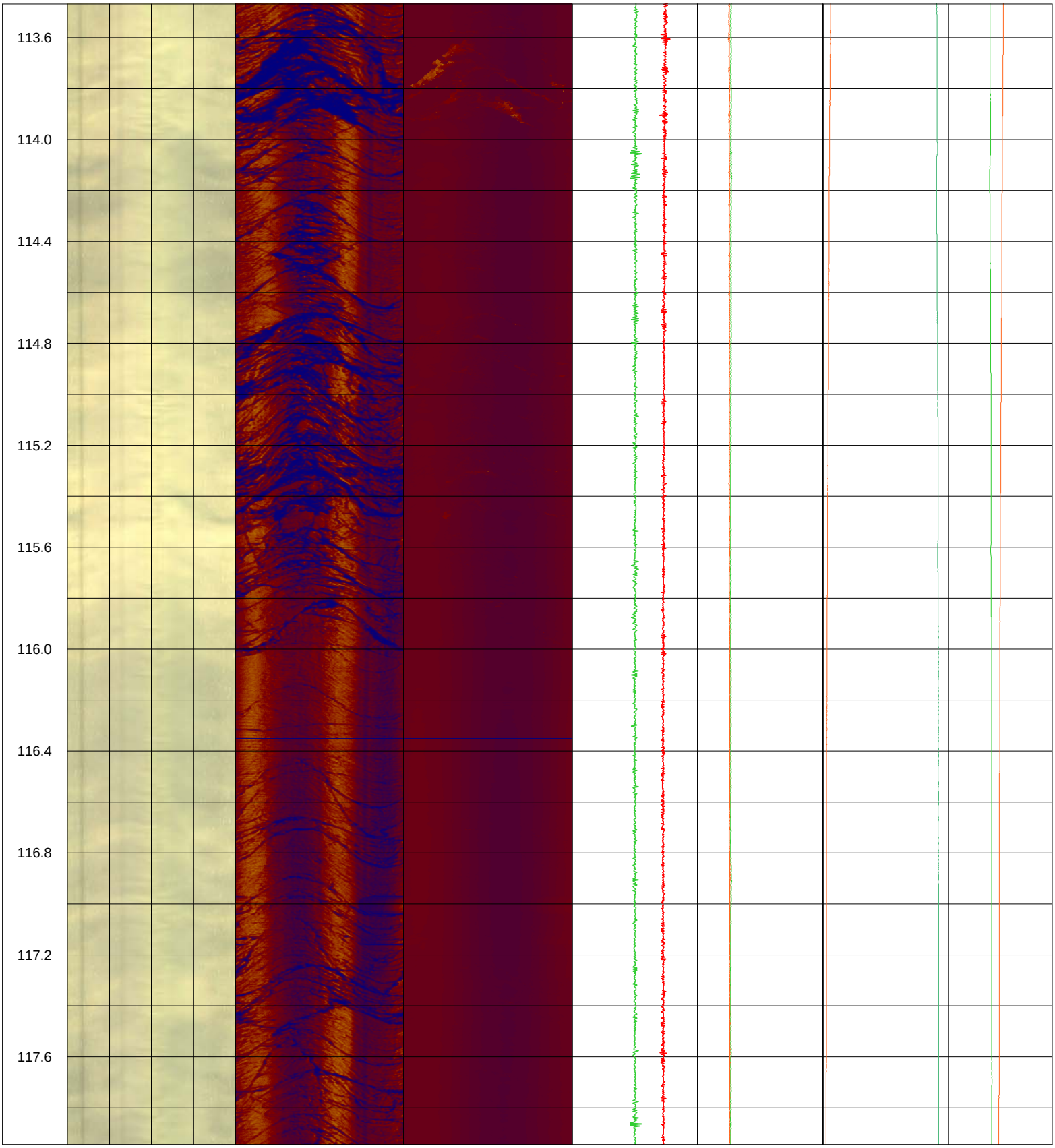
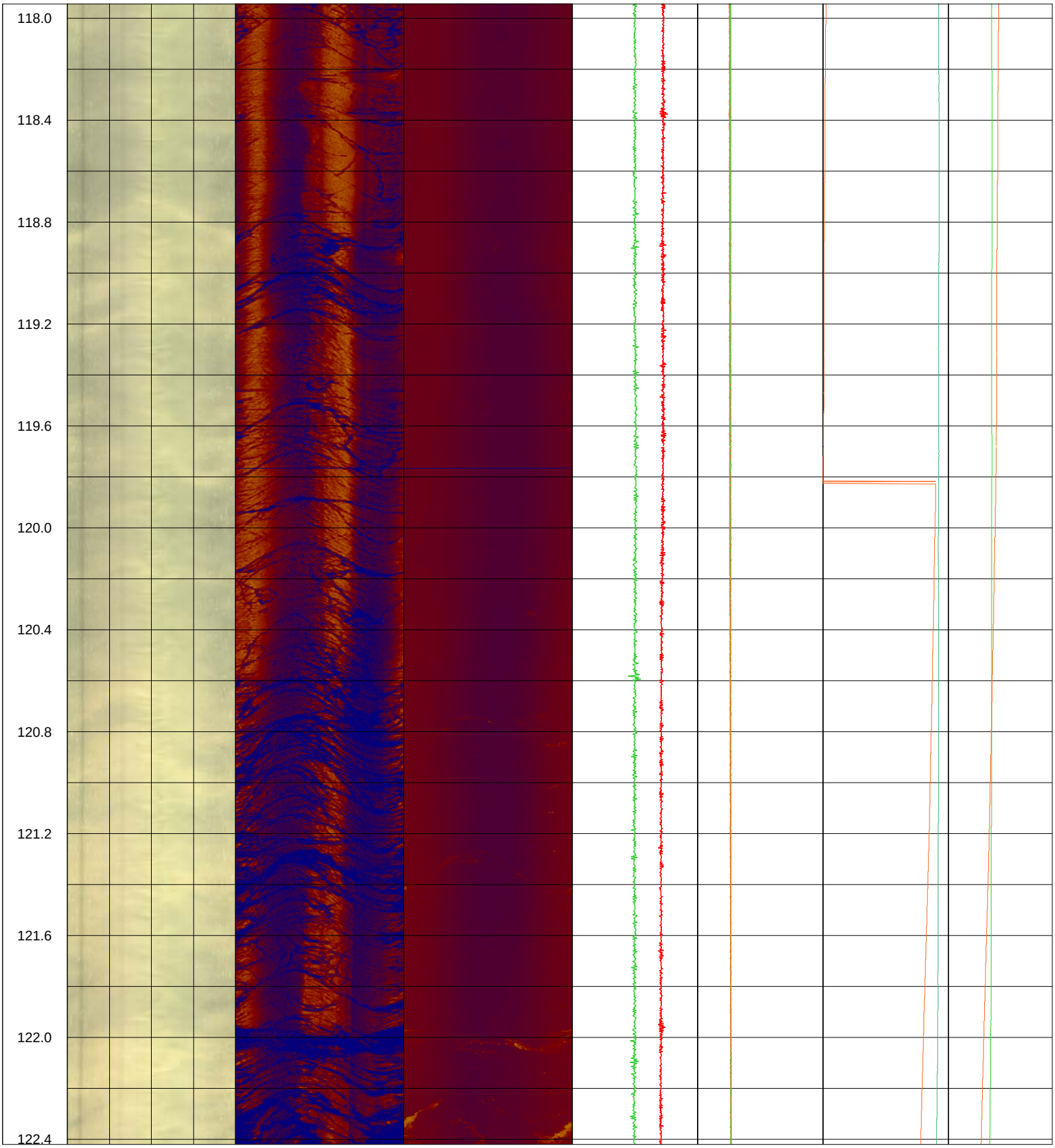


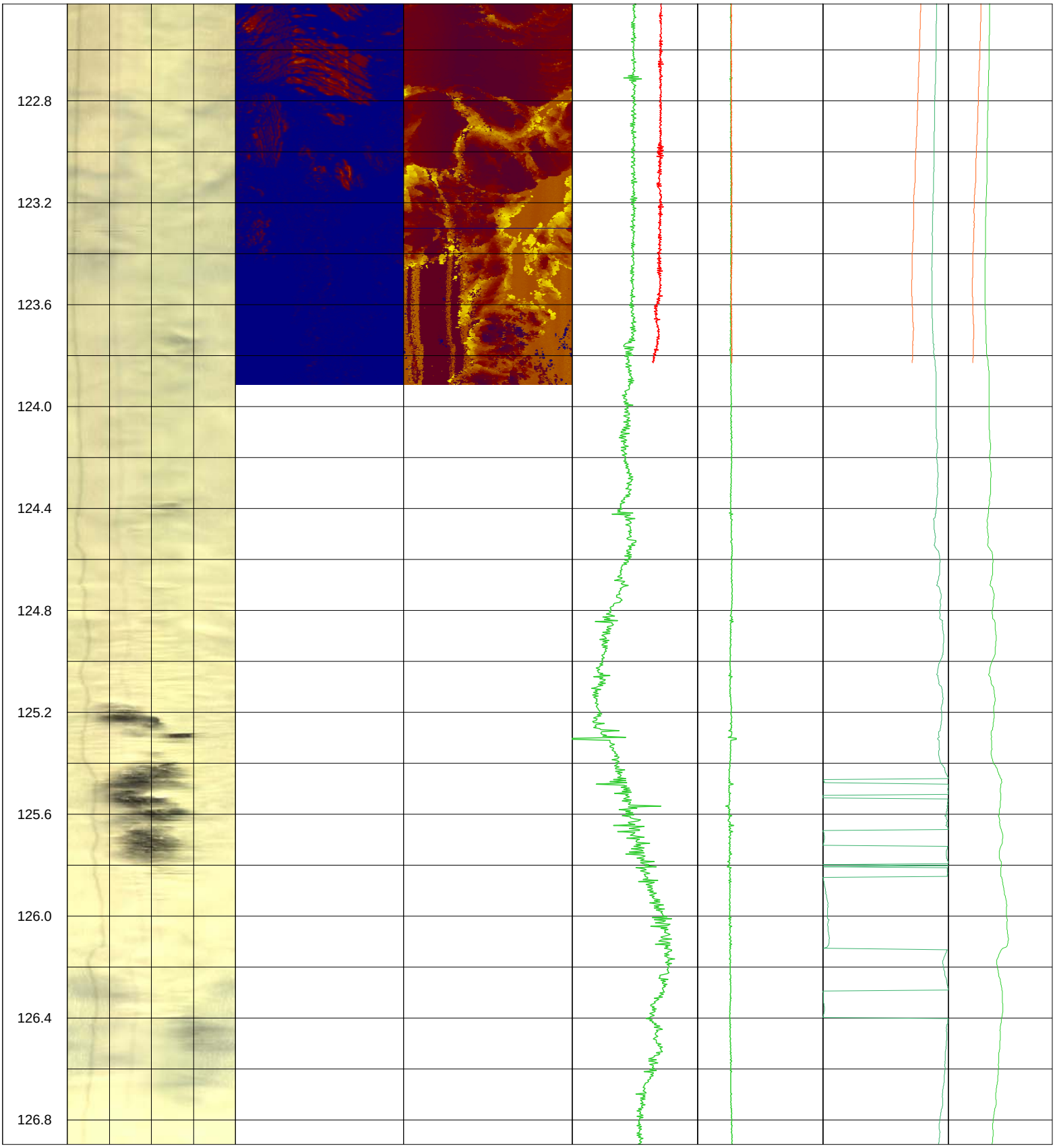
K17-438 Opictal & Acoustic Televiewer Survey Cont.



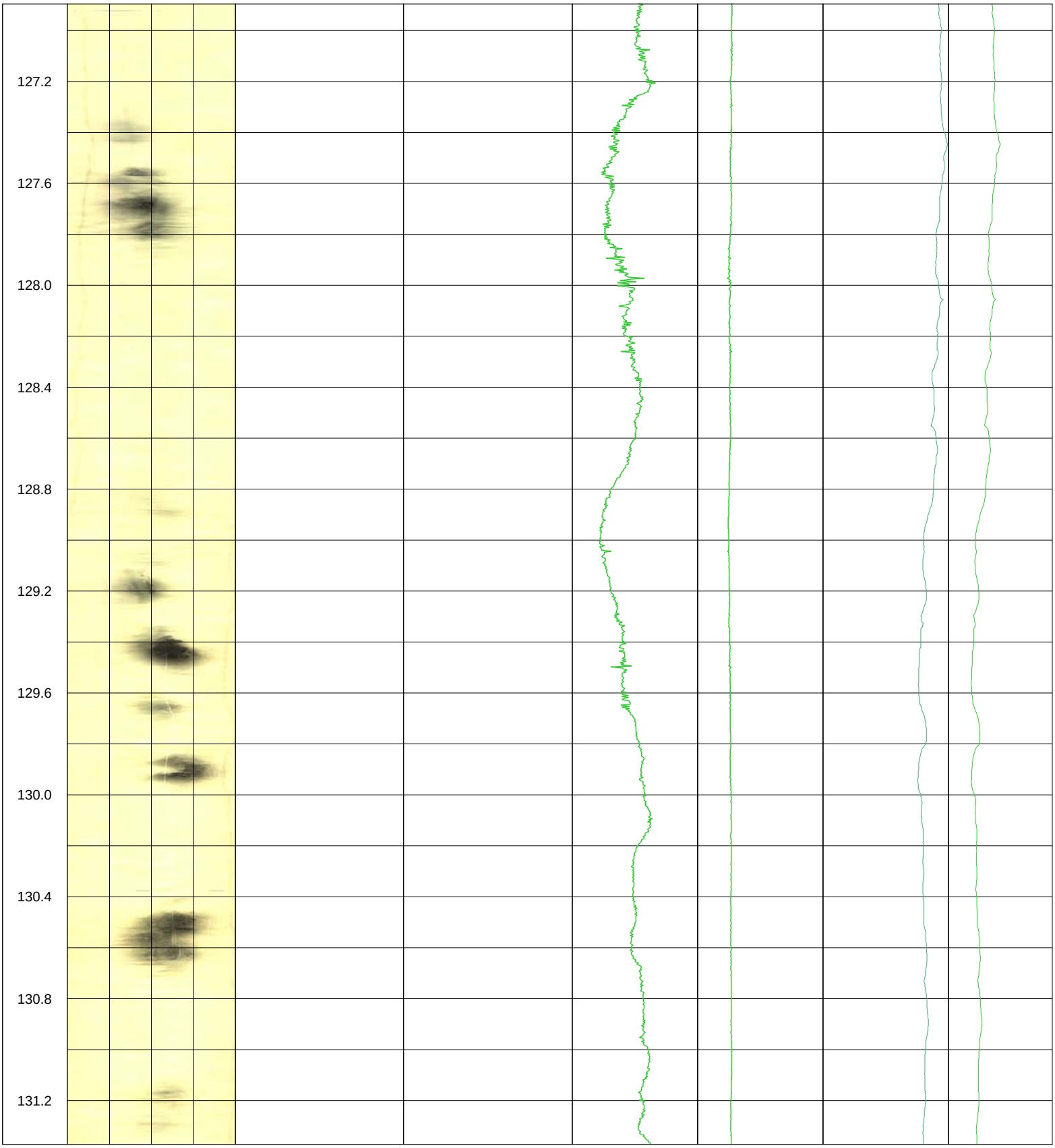
K17-438 Opictal & Acoustic Televiewer Survey Cont.



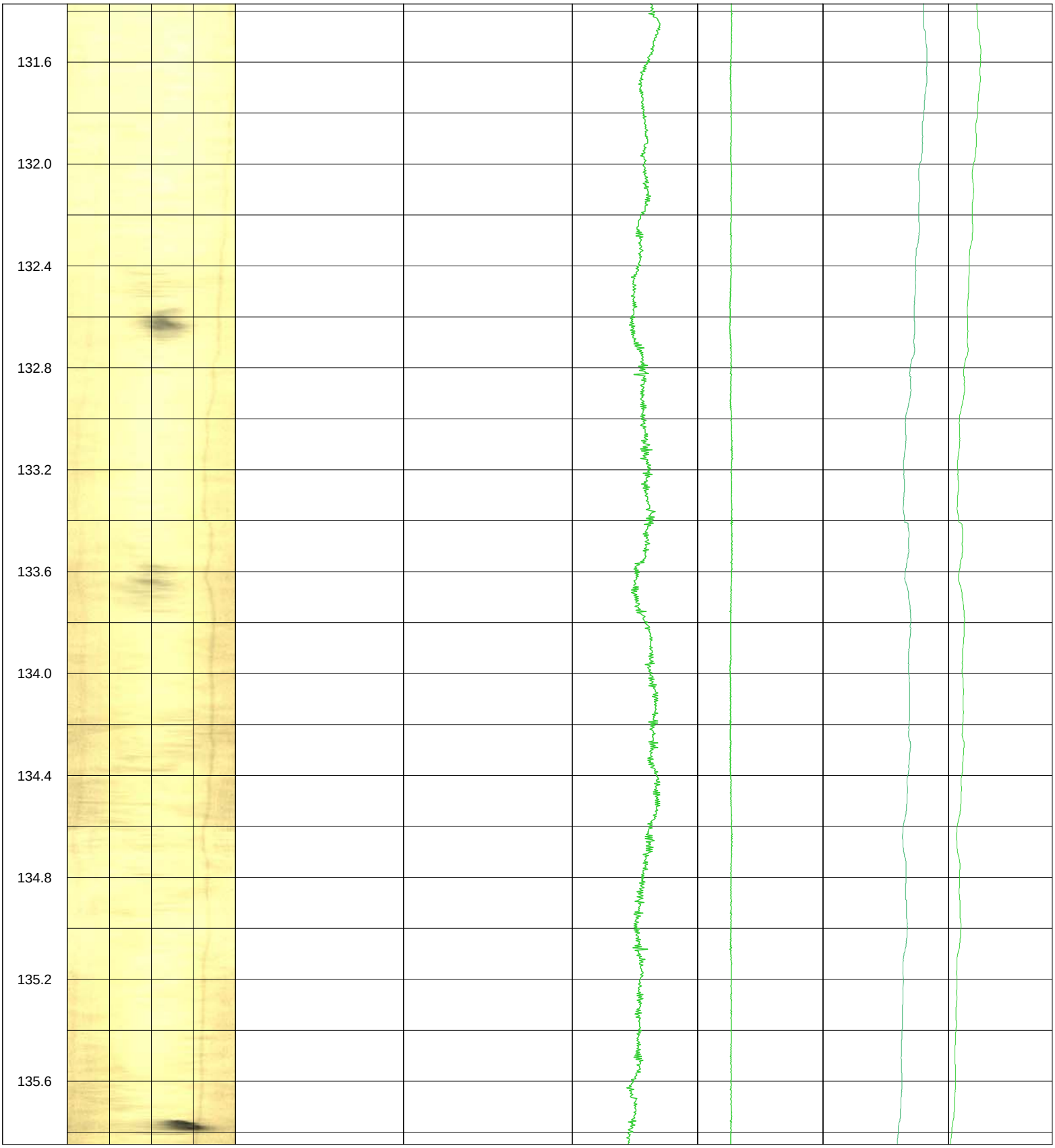
K17-438 Opictal & Acoustic Televiewer Survey Cont.



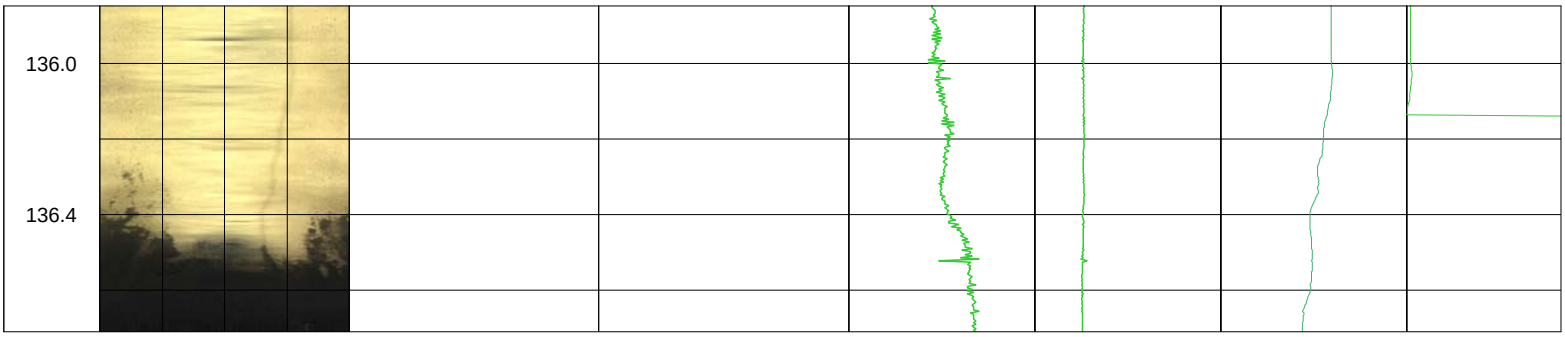
K17-438 Opictal & Acoustic Televiewer Survey Cont.



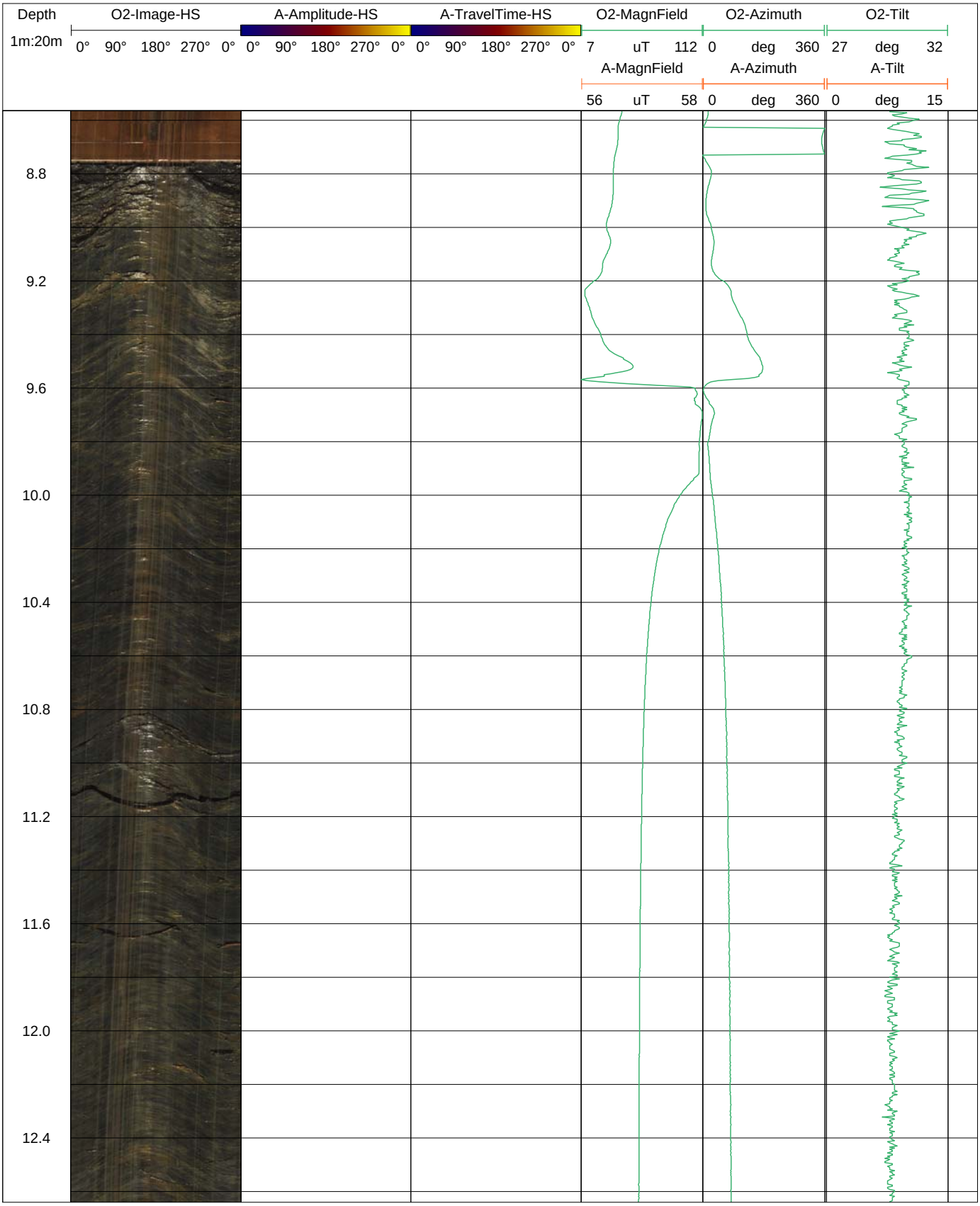
K17-438 Opictal & Acoustic Televiewer Survey Cont.



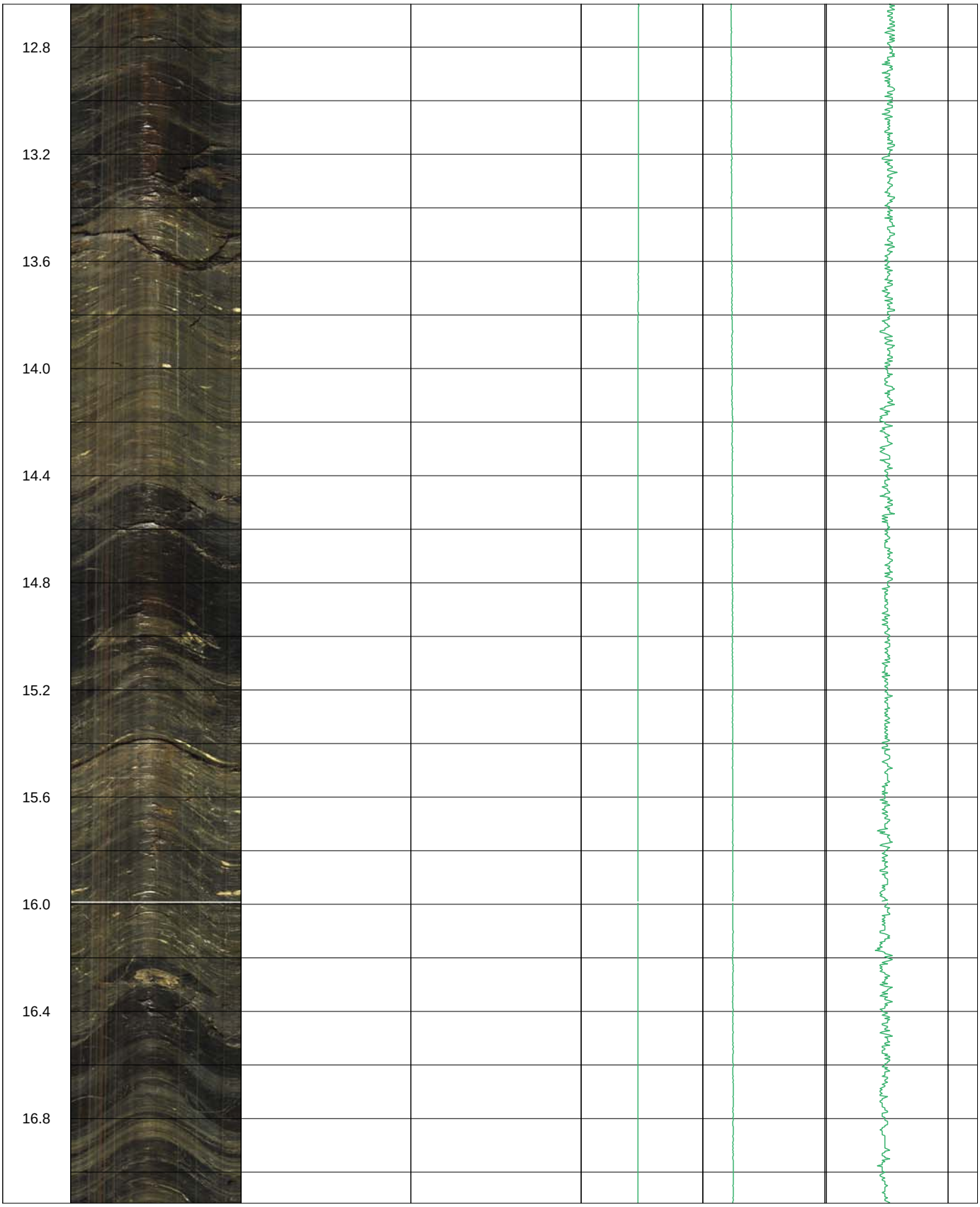
K17-438 Opictal & Acoustic Televiewer Survey Cont.



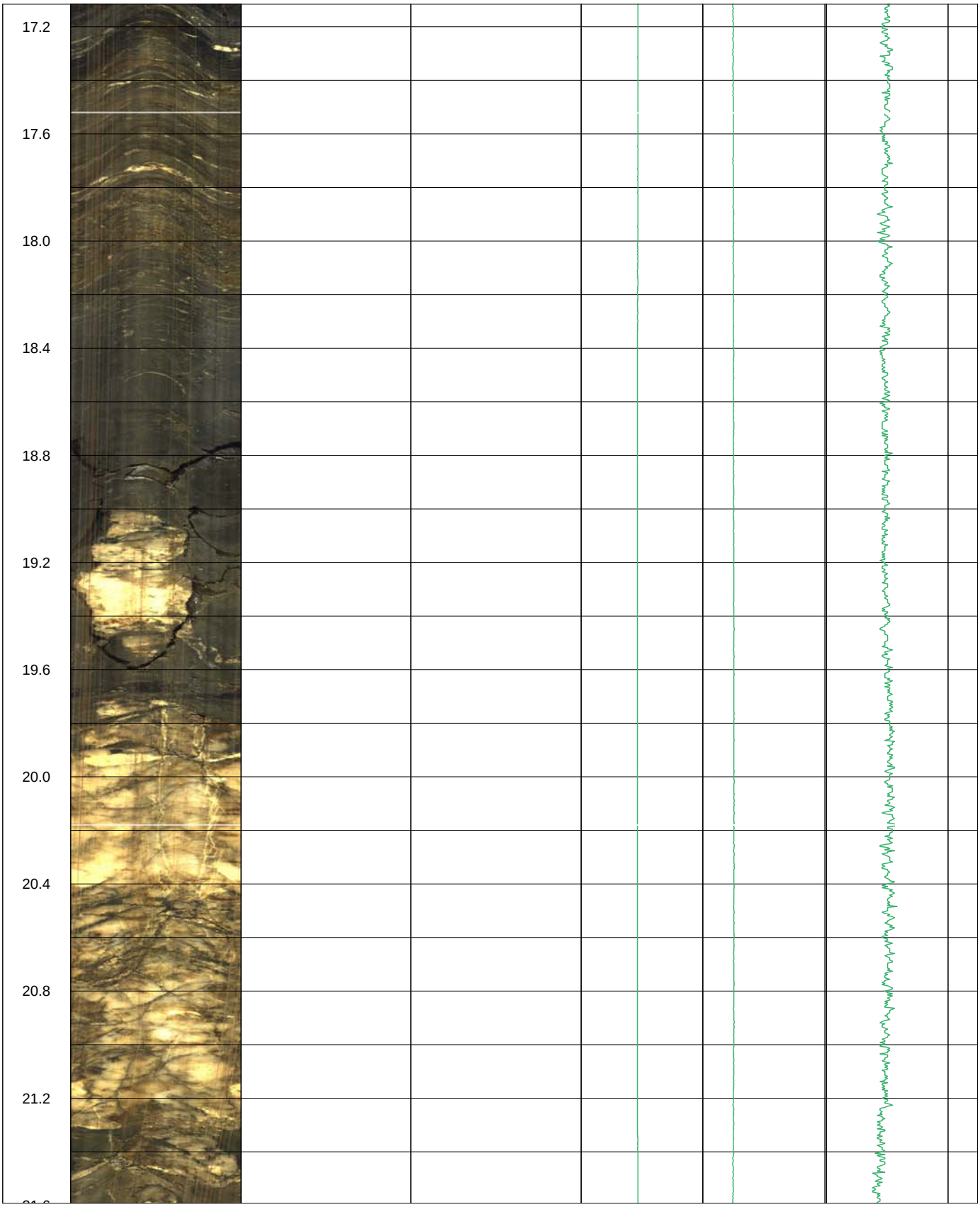
K17-439 Opictal & Acoustic Televiewer Survey



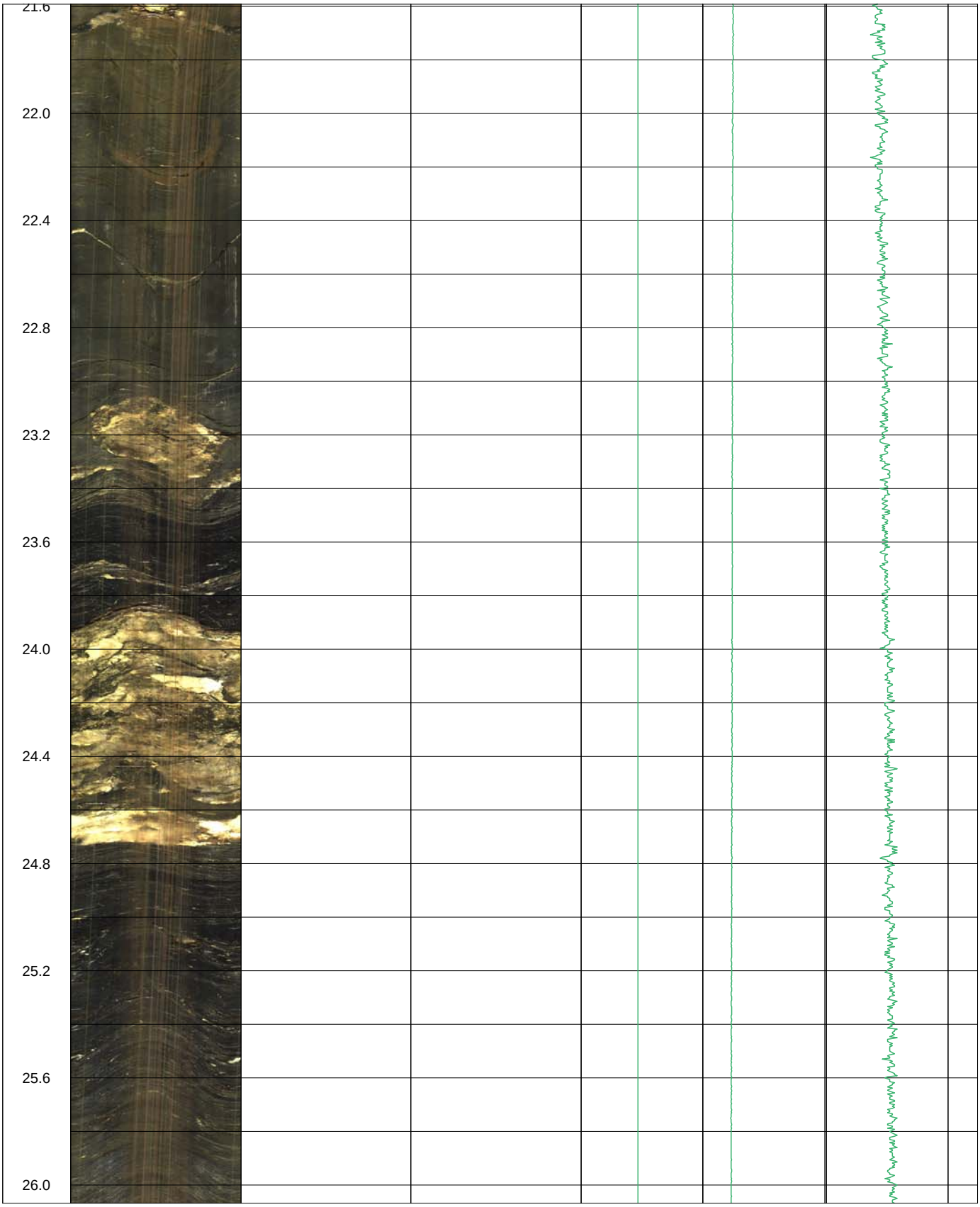
K17-439 Opictal & Acoustic Televiewer Survey Cont.



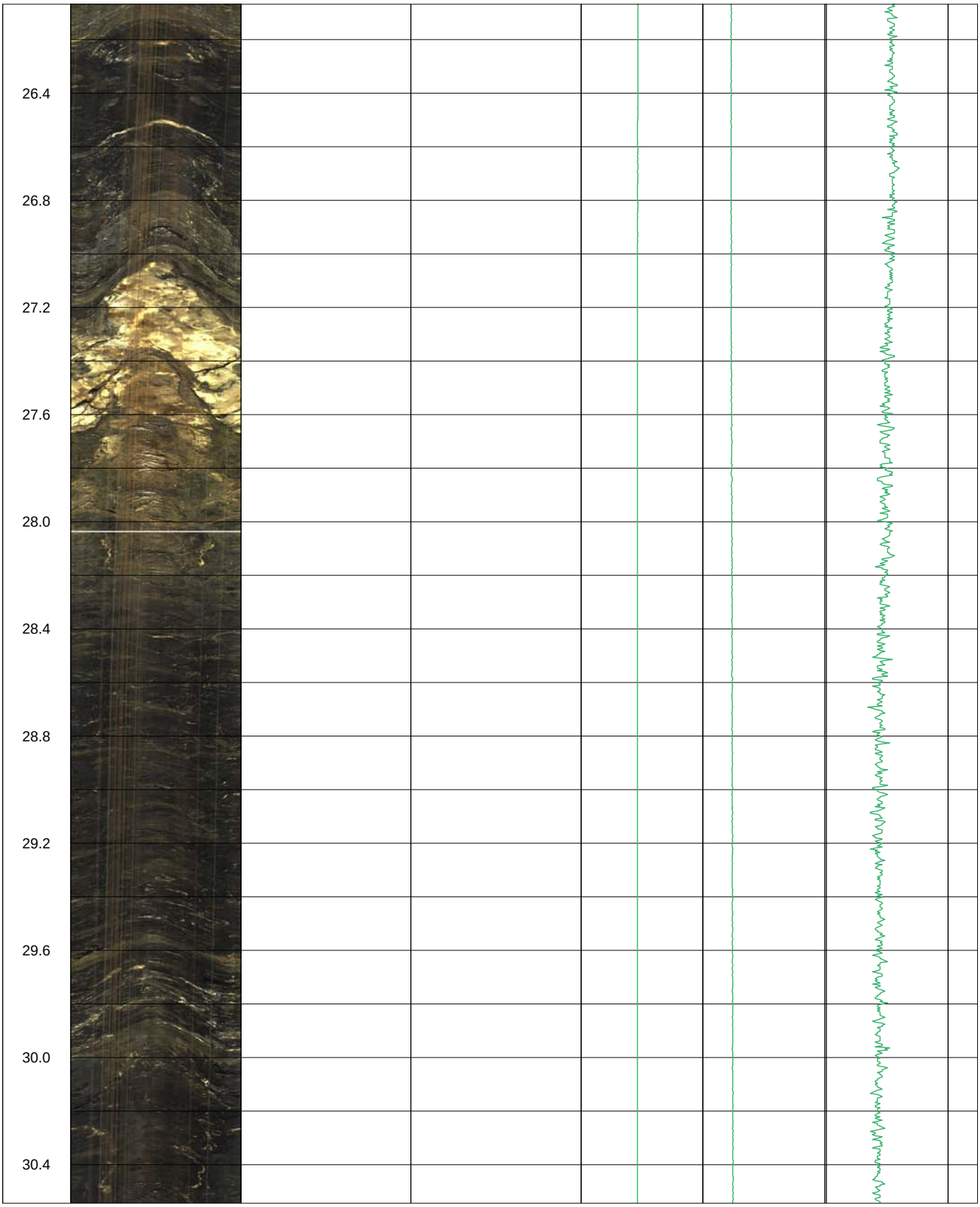
K17-439 Opictal & Acoustic Televiewer Survey Cont.



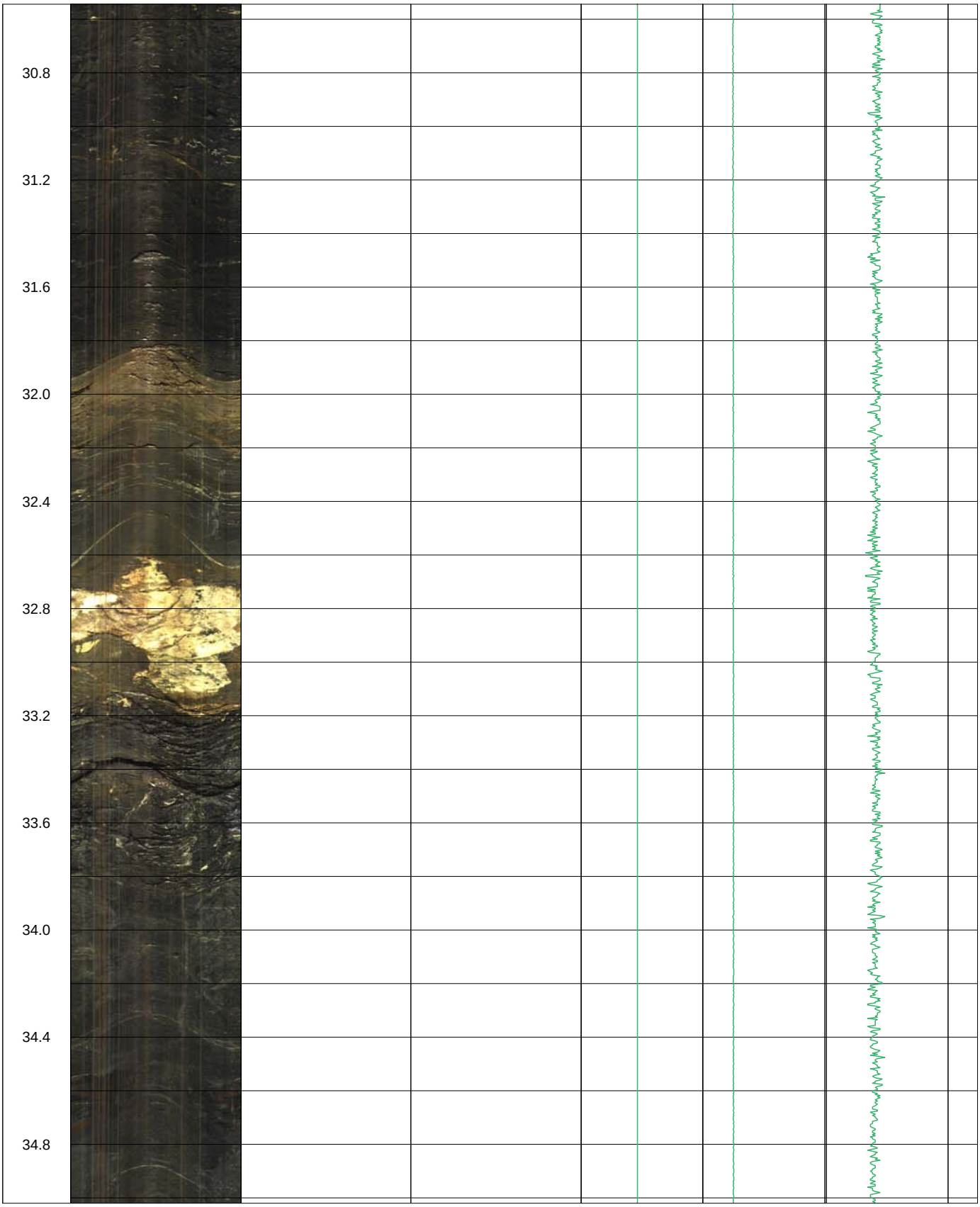
K17-439 Opictal & Acoustic Televiewer Survey Cont.



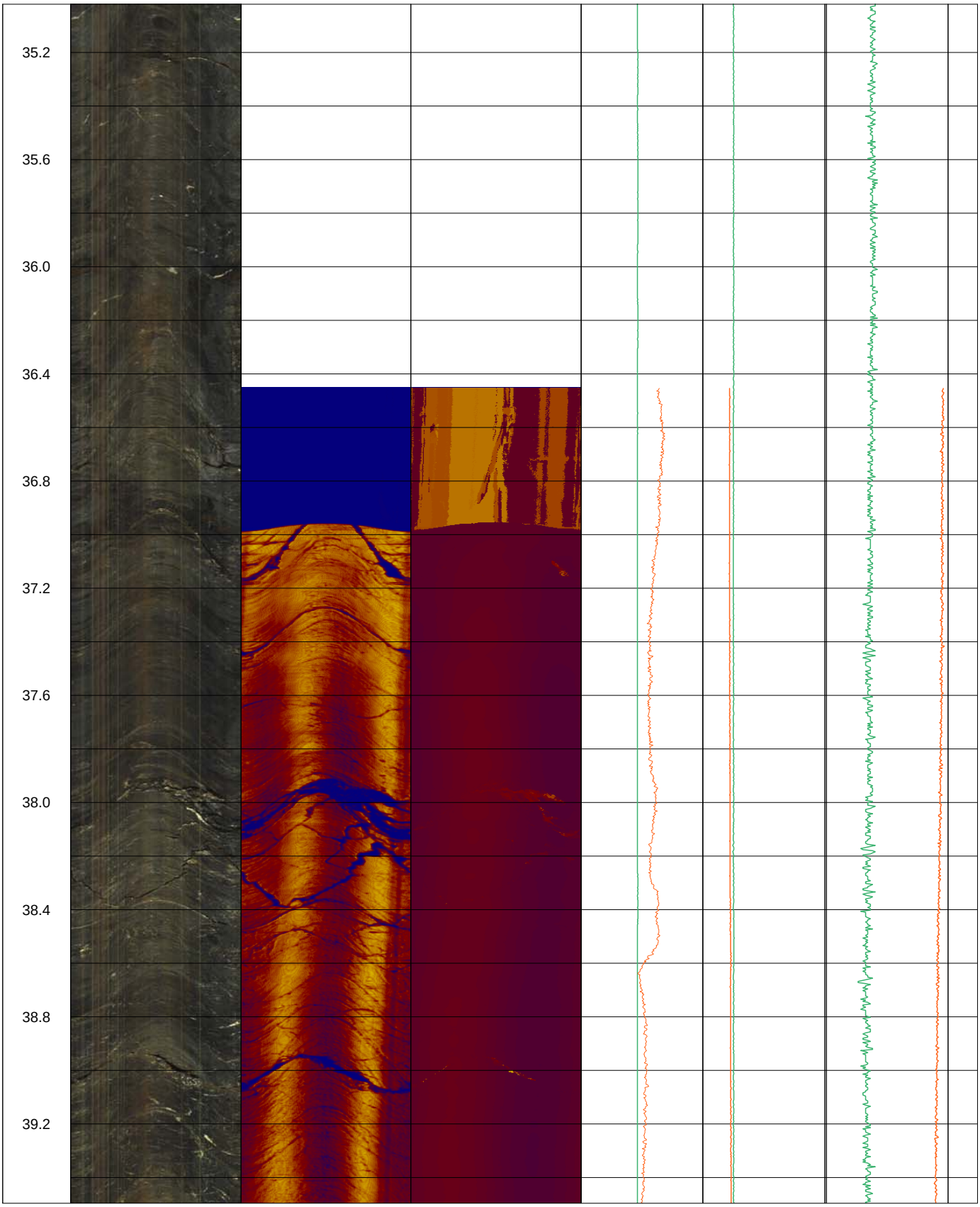
K17-439 Opictal & Acoustic Televiewer Survey Cont.



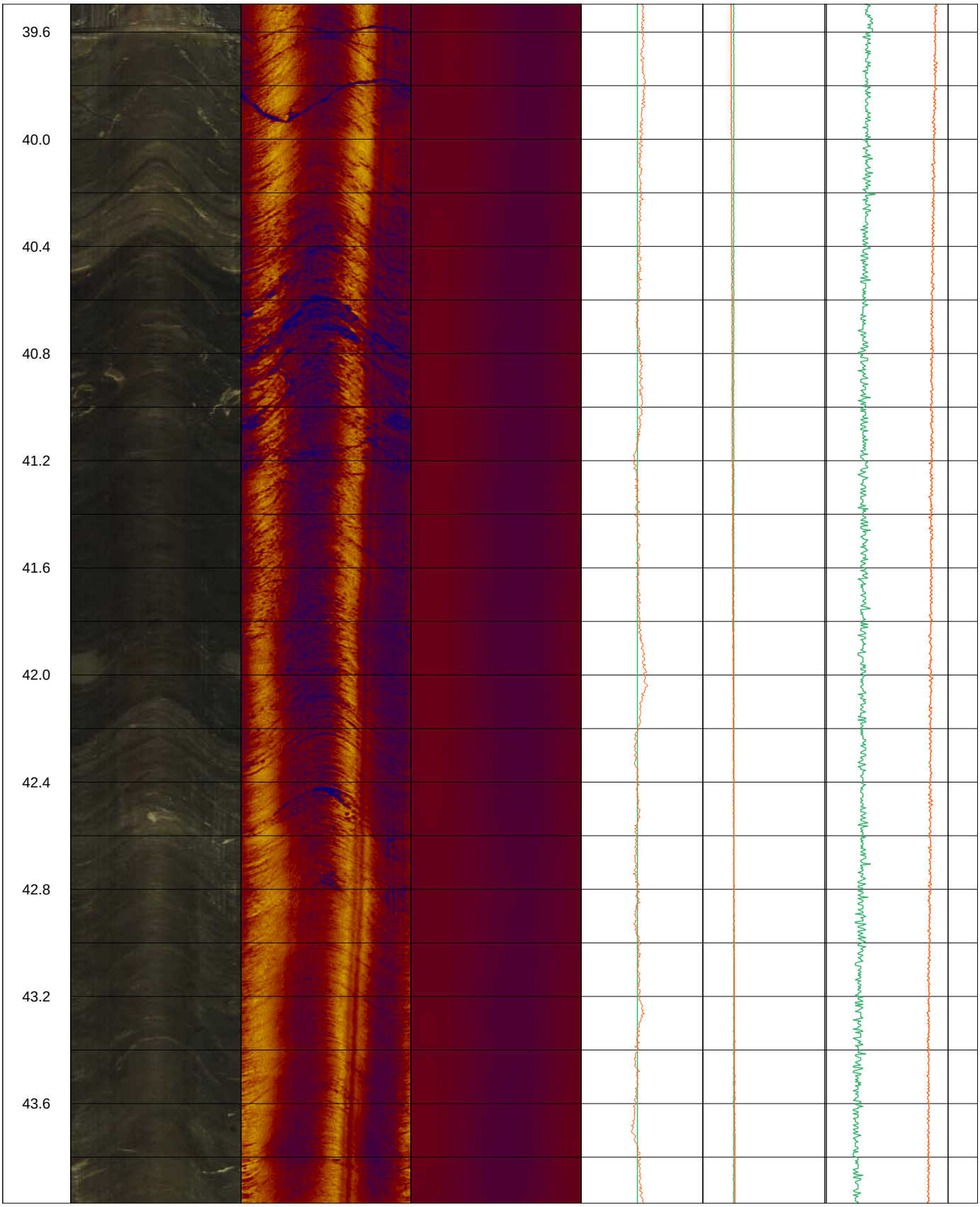
K17-439 Opictal & Acoustic Televiewer Survey Cont.



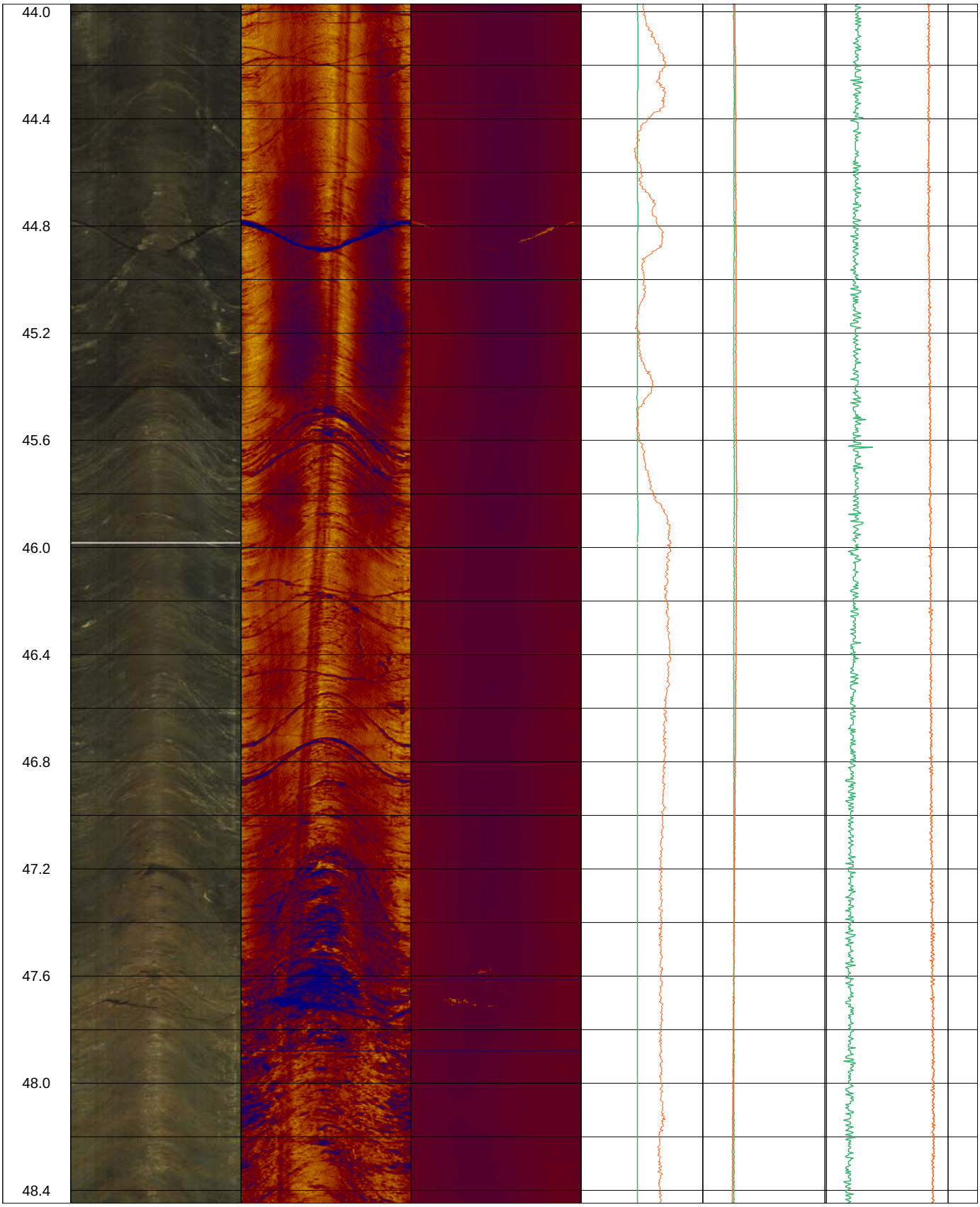
K17-439 Opictal & Acoustic Televiewer Survey Cont.



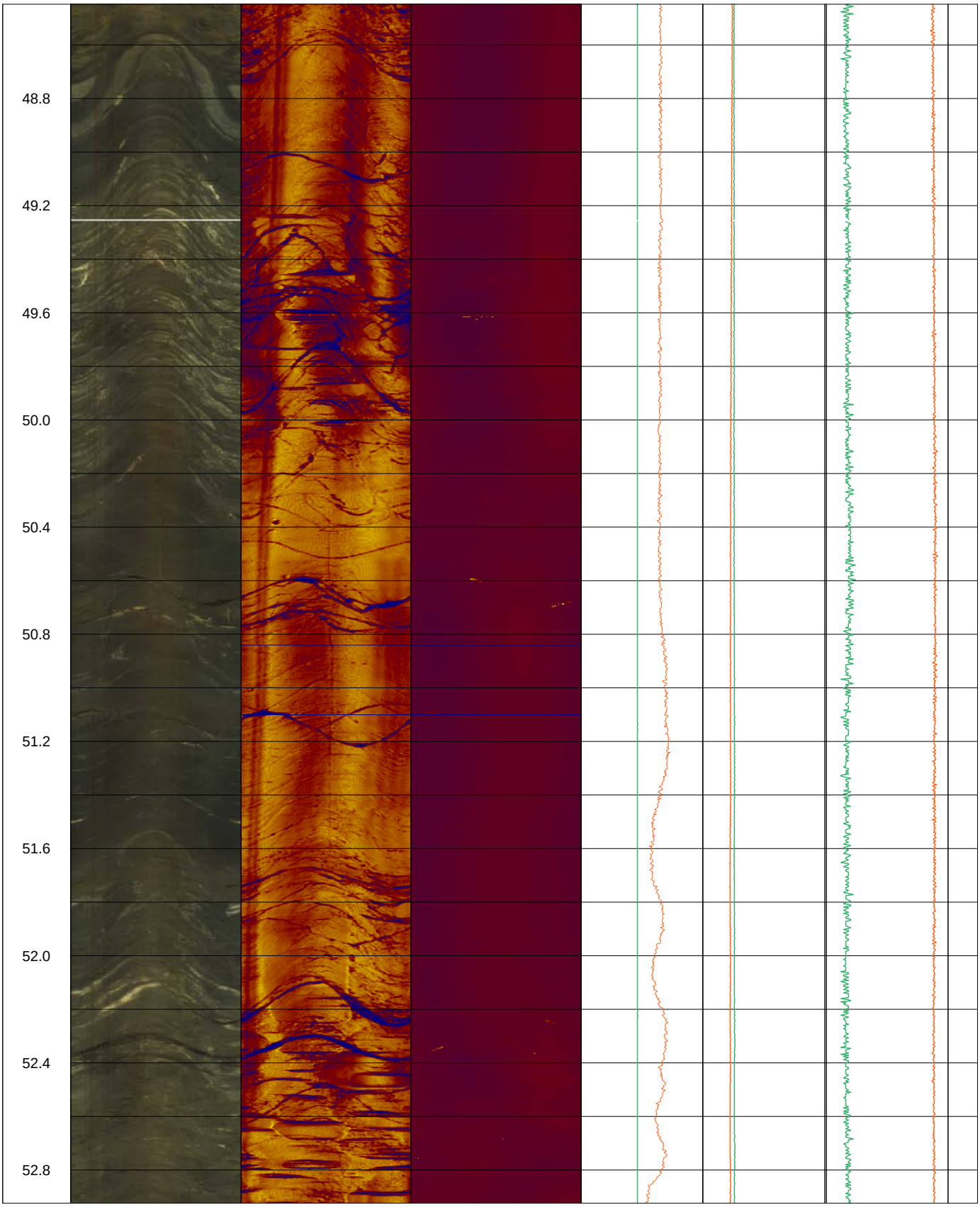
K17-439 Opictal & Acoustic Televiewer Survey Cont.



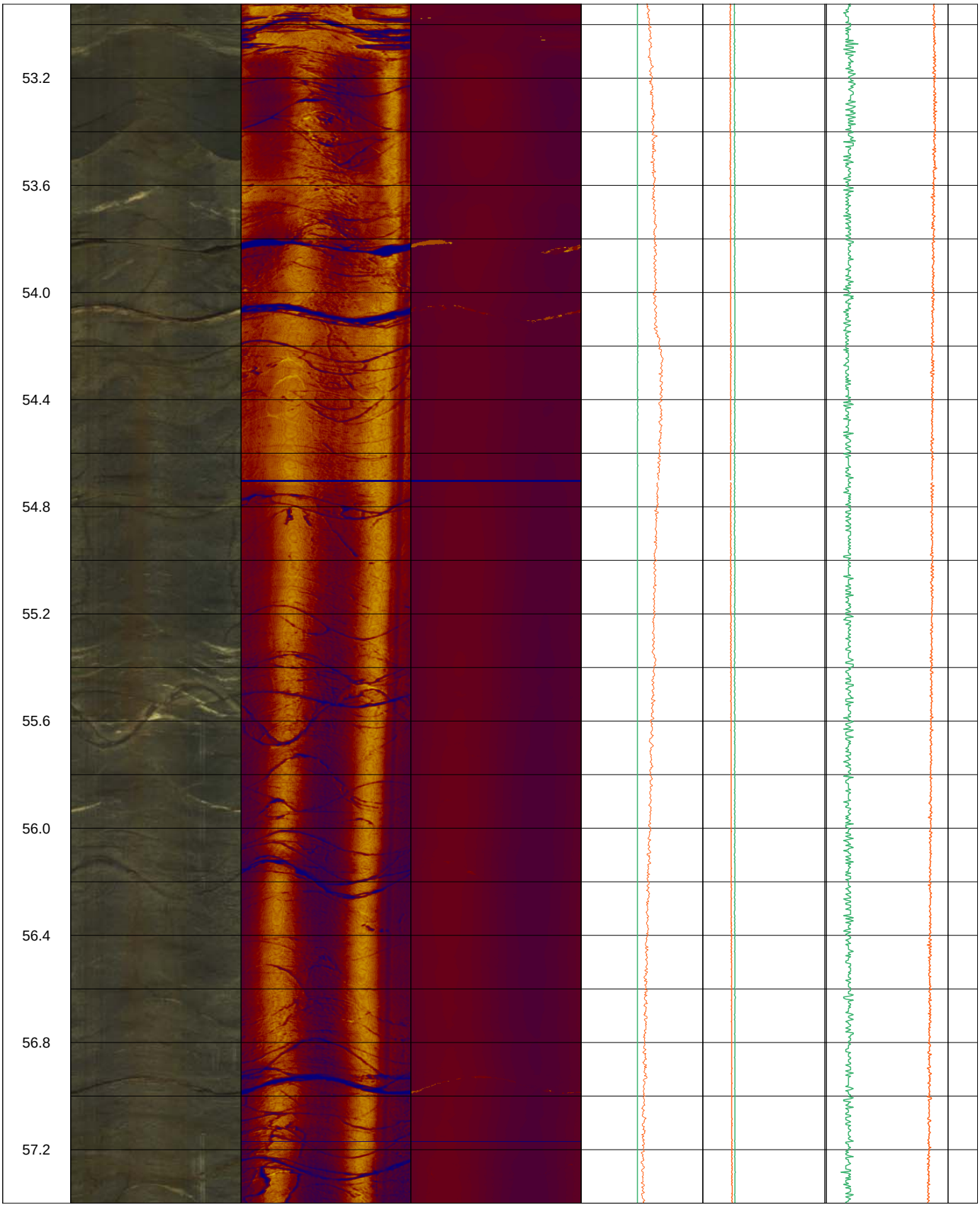
K17-439 Opictal & Acoustic Televiewer Survey Cont.



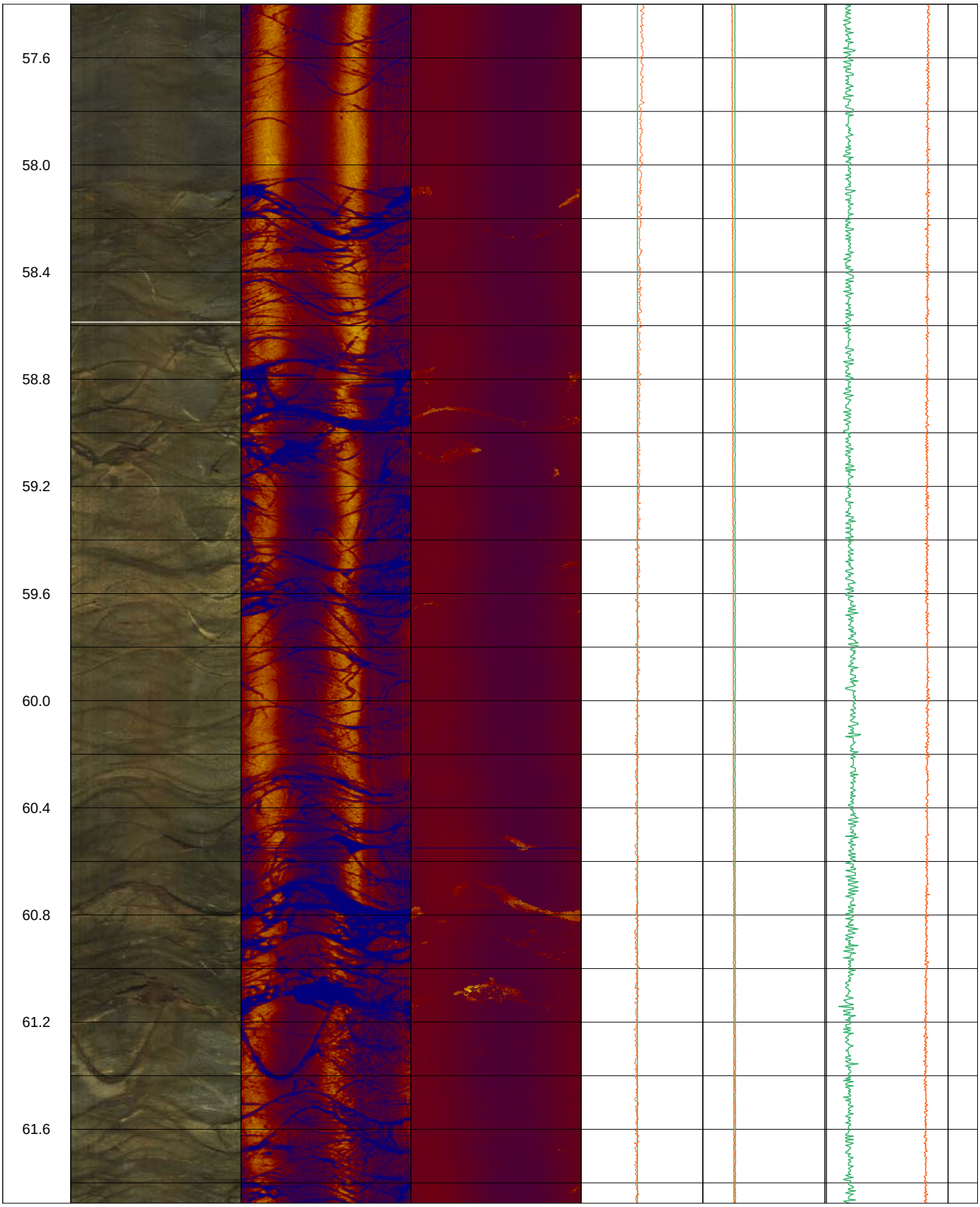
K17-439 Opictal & Acoustic Televiewer Survey Cont.



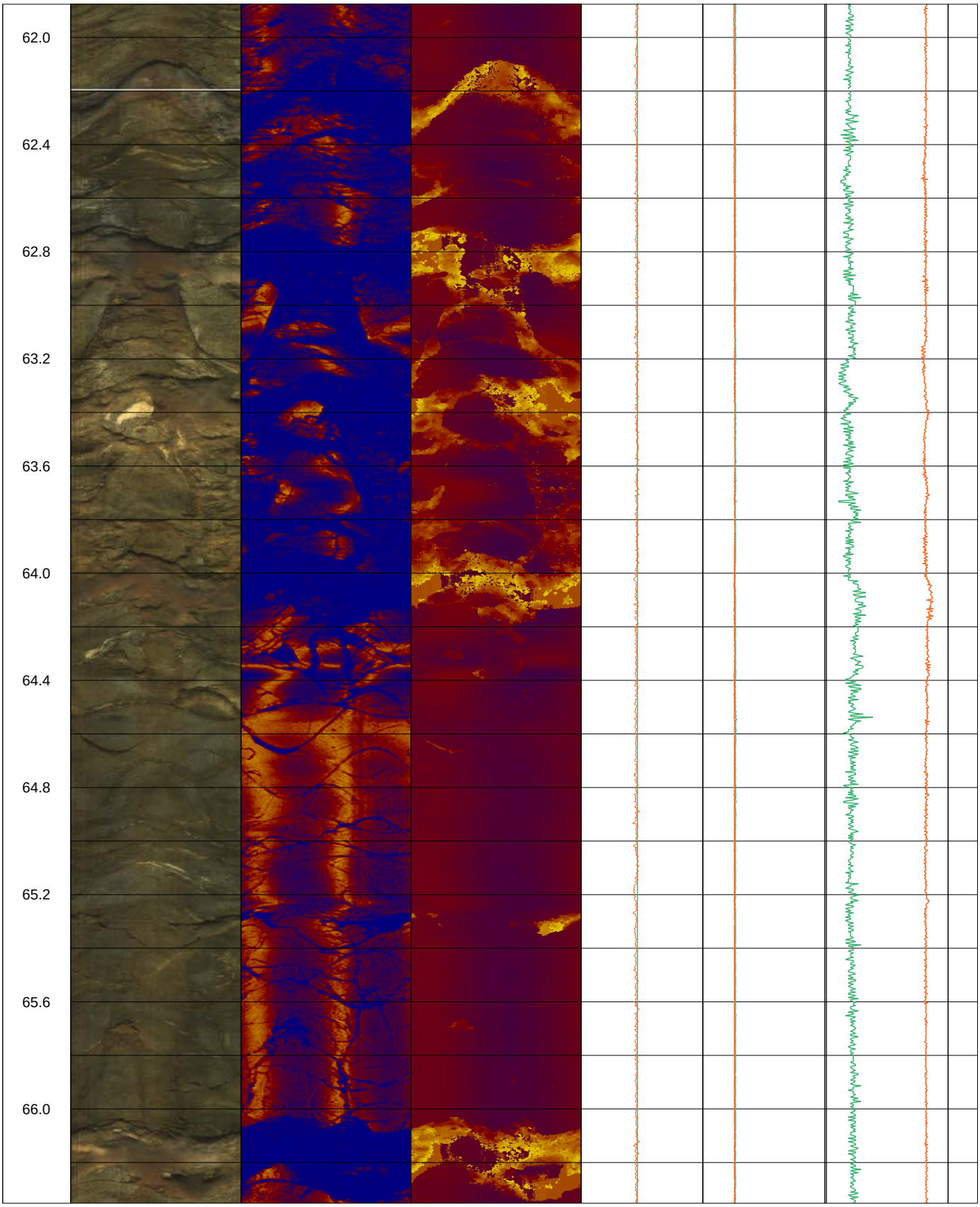
K17-439 Opictal & Acoustic Televiewer Survey Cont.



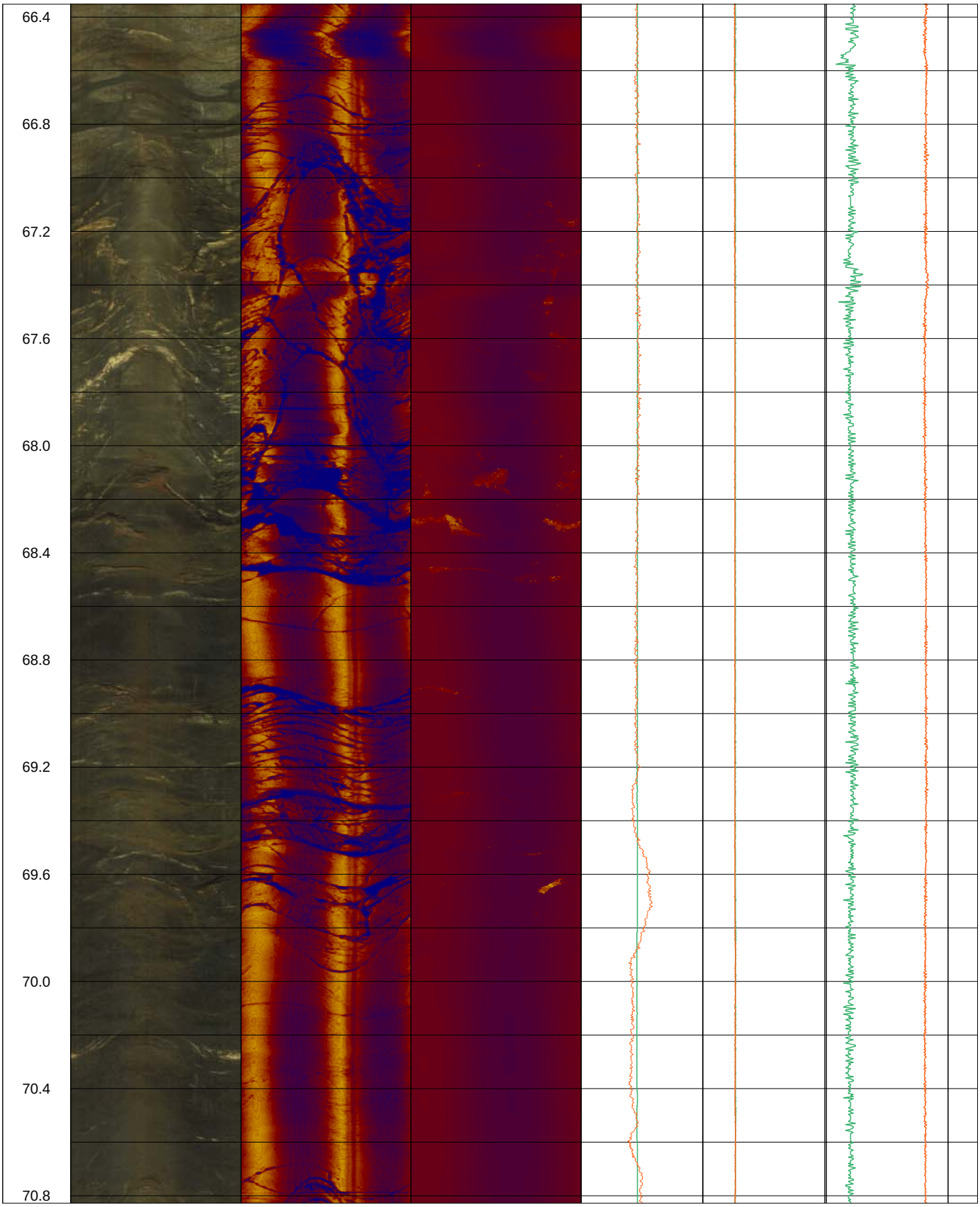
K17-439 Opictal & Acoustic Televiewer Survey Cont.



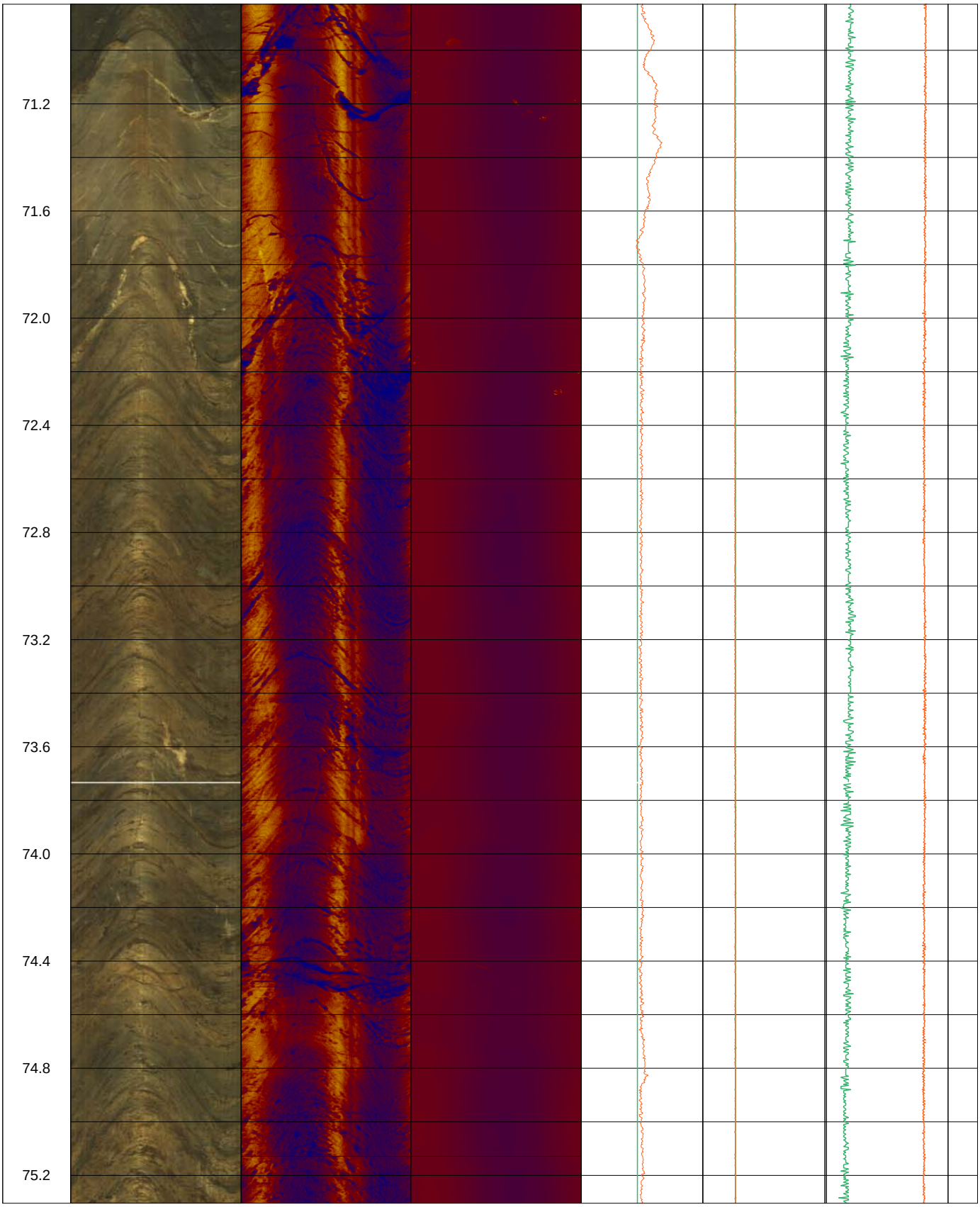
K17-439 Opictal & Acoustic Televiewer Survey Cont.



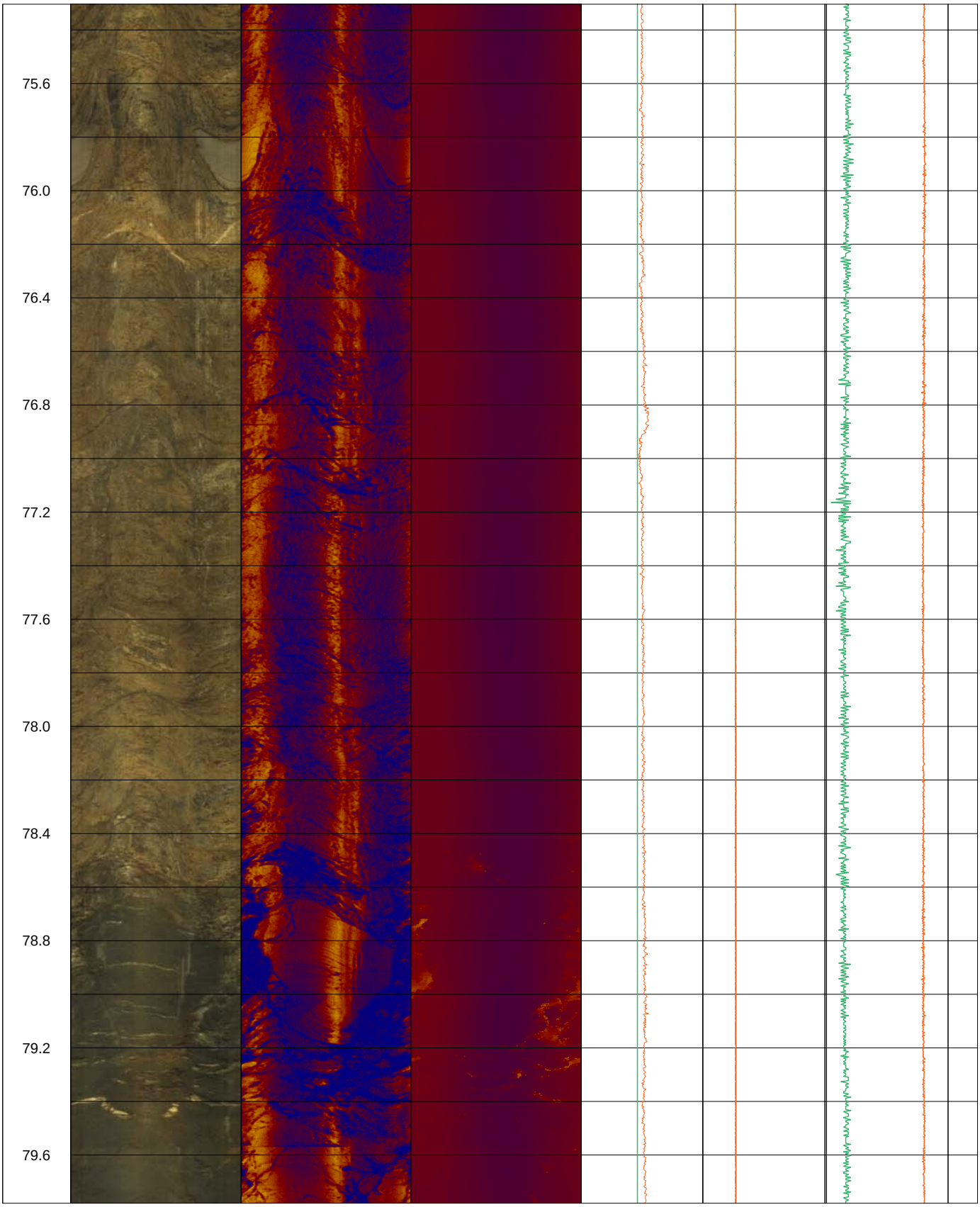
K17-439 Opictal & Acoustic Televiewer Survey Cont.



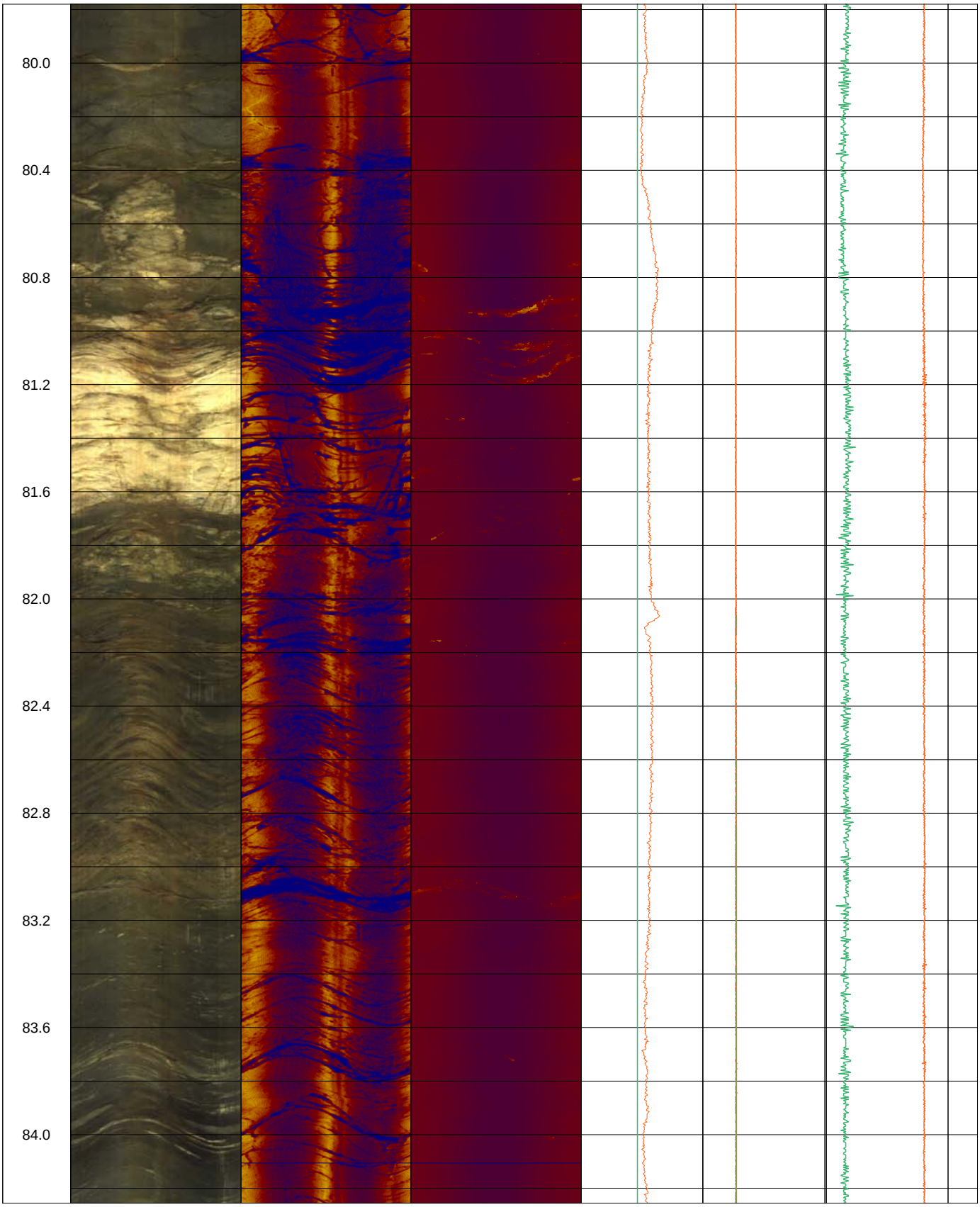
K17-439 Opictal & Acoustic Televiewer Survey Cont.



K17-439 Opictal & Acoustic Televiewer Survey Cont.



K17-439 Opictal & Acoustic Televiewer Survey Cont.



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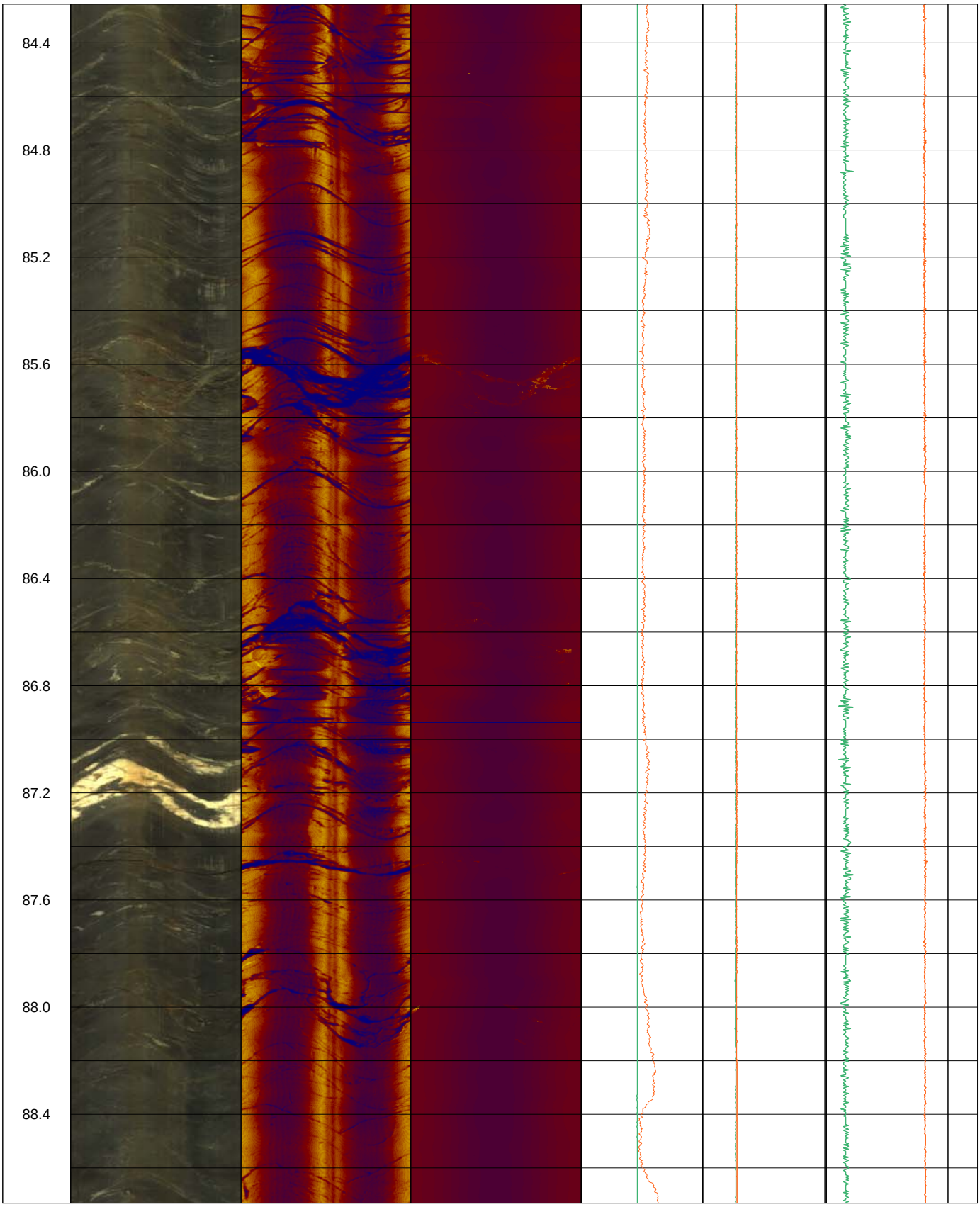
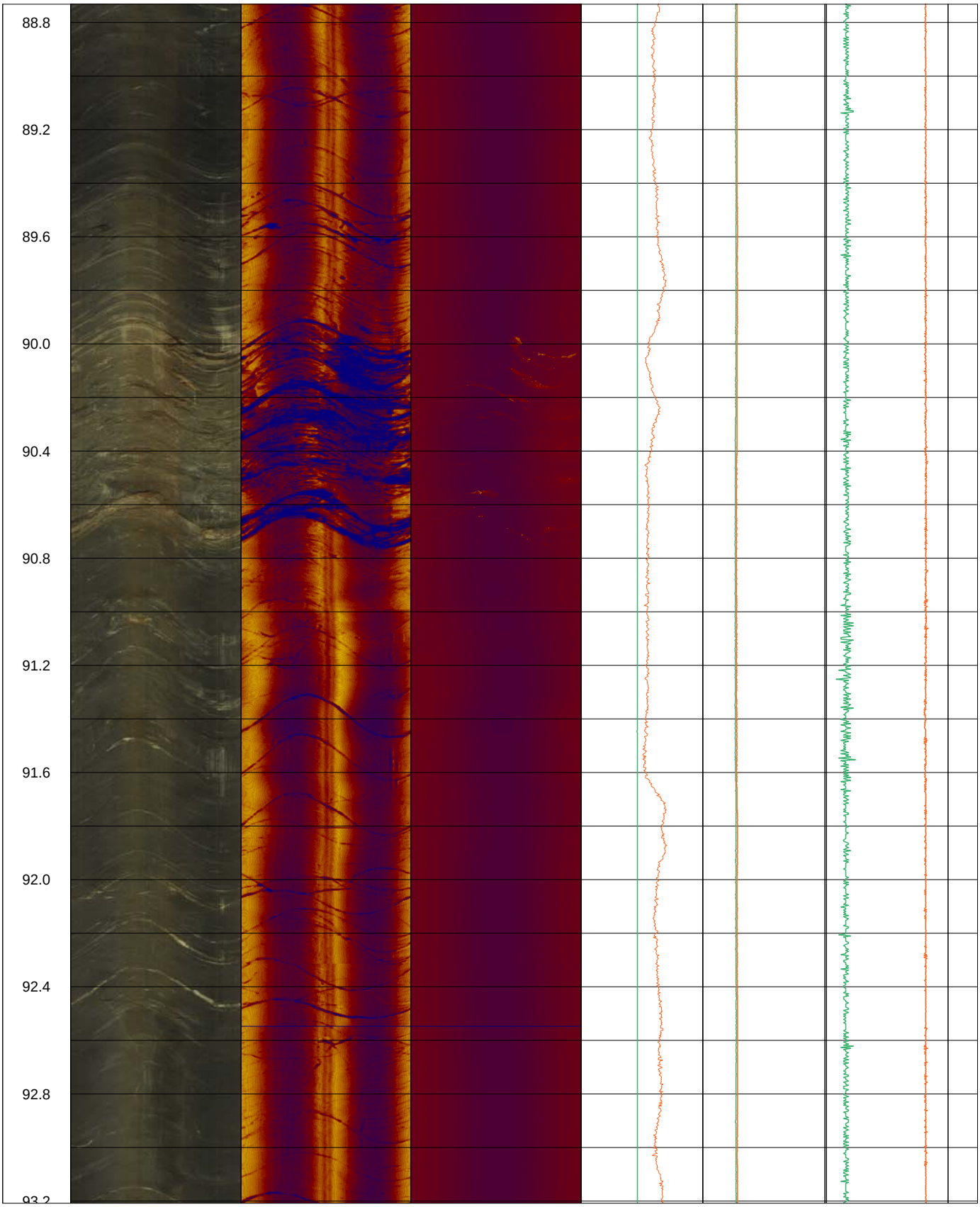
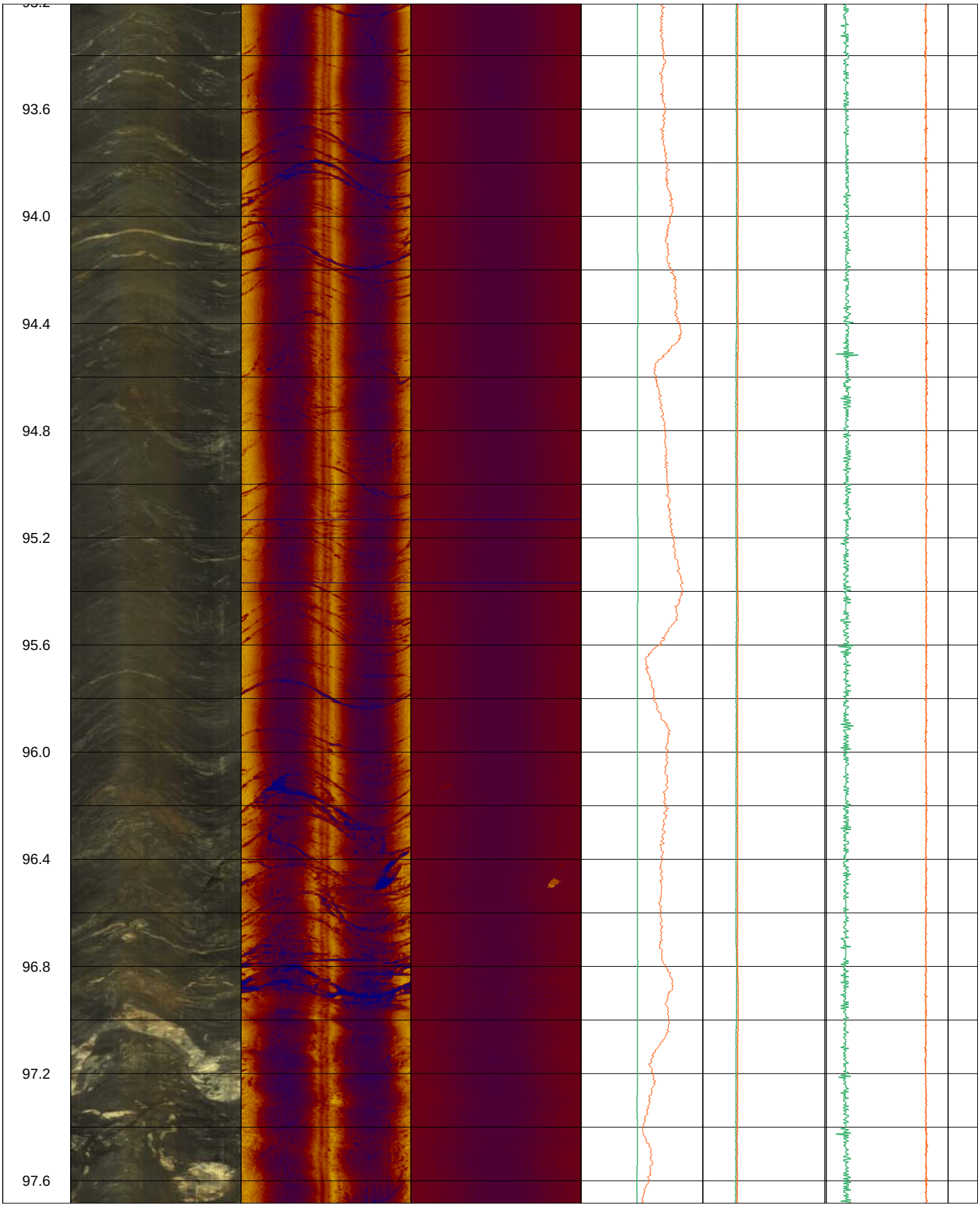


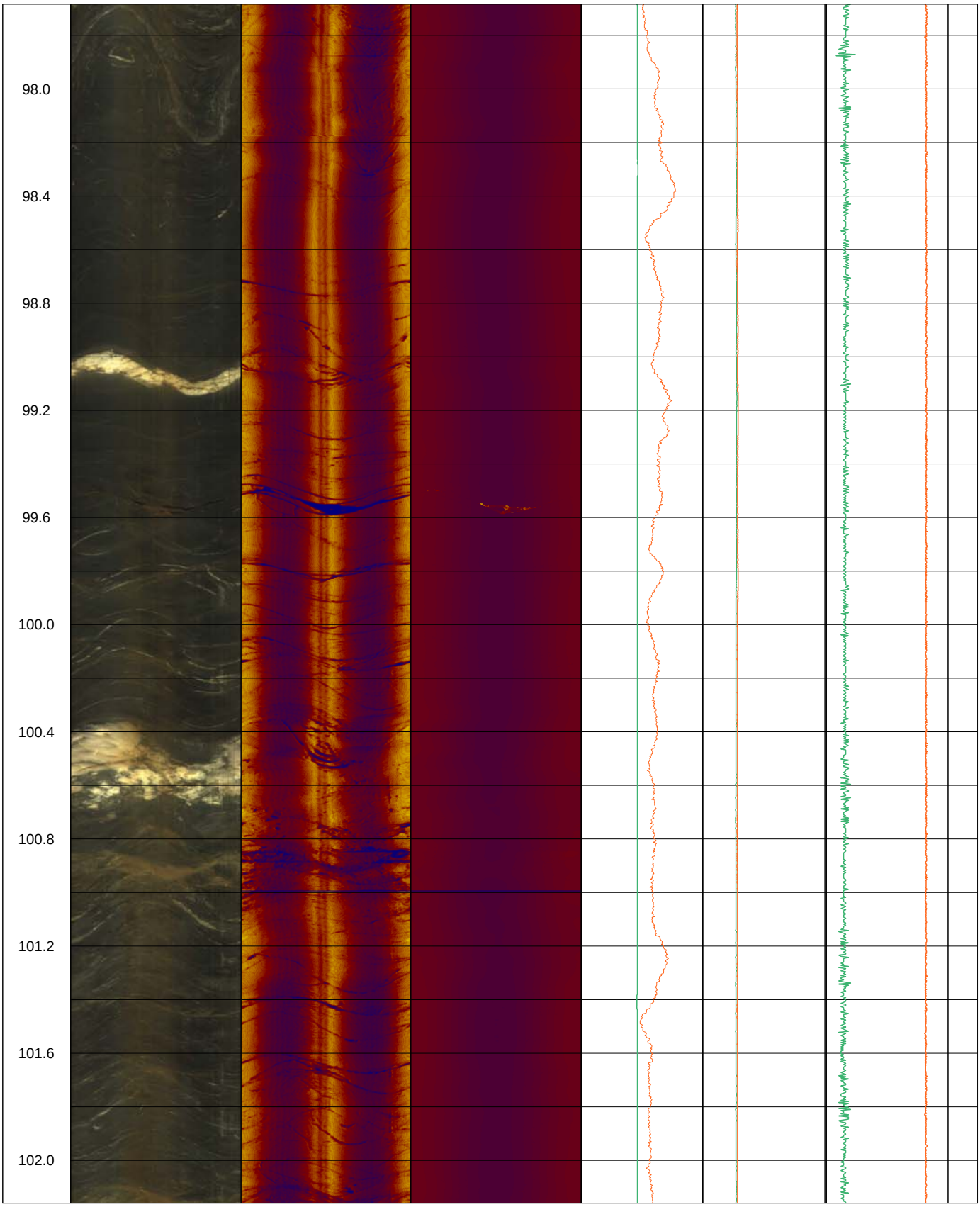
K17-439 Opictal & Acoustic Televiewer Survey Cont.



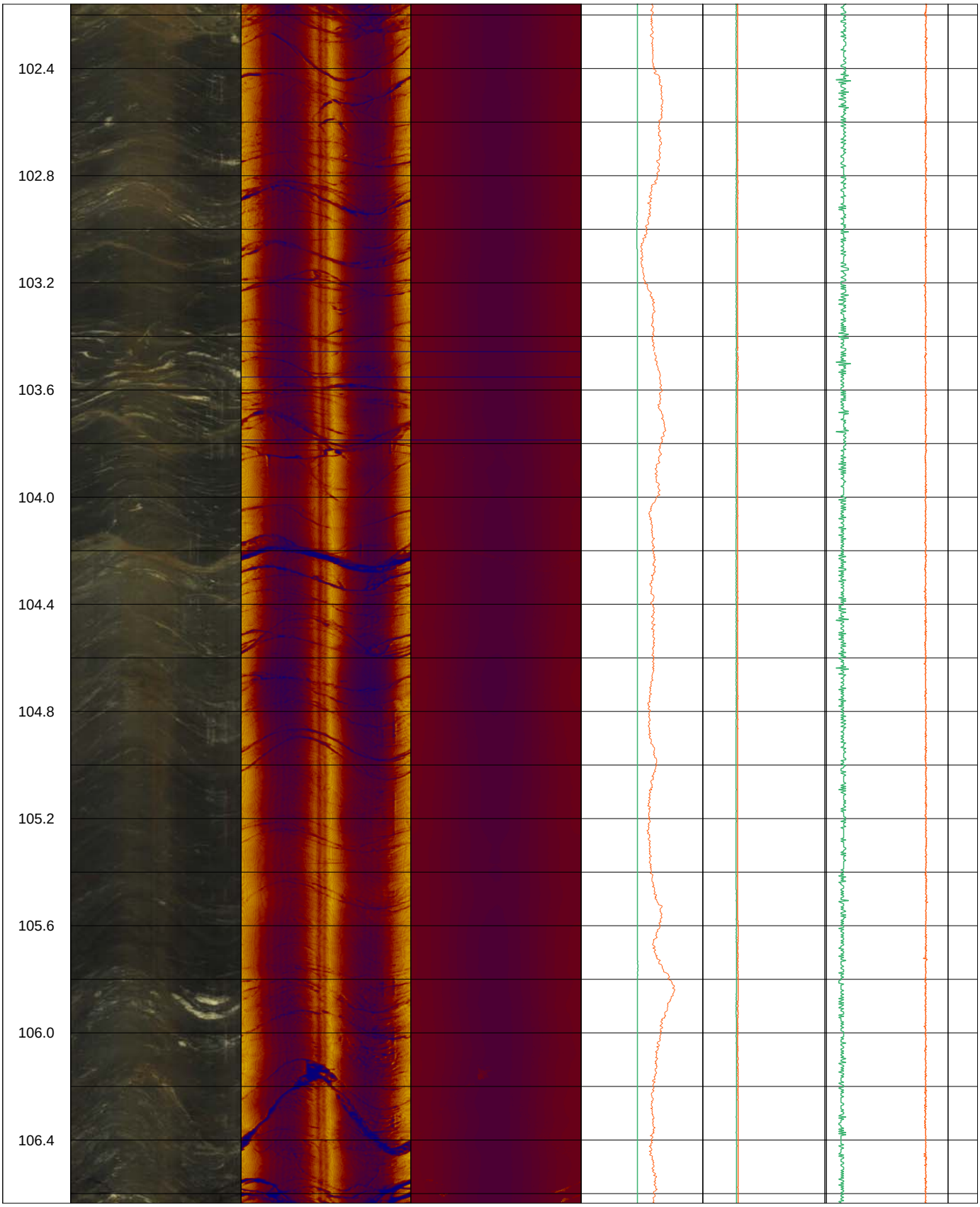
K17-439 Opictal & Acoustic Televiewer Survey Cont.



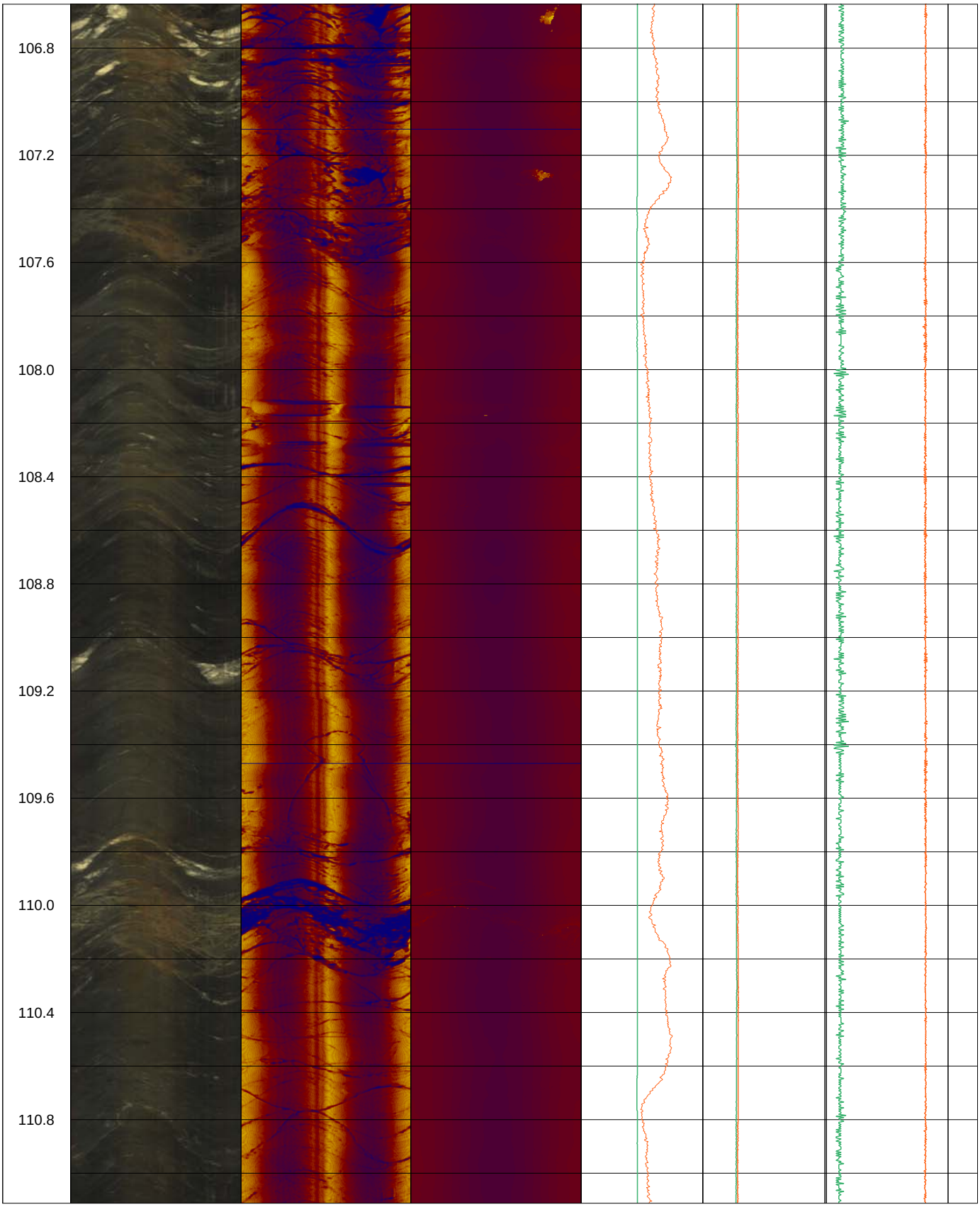
K17-439 Opictal & Acoustic Televiewer Survey Cont.



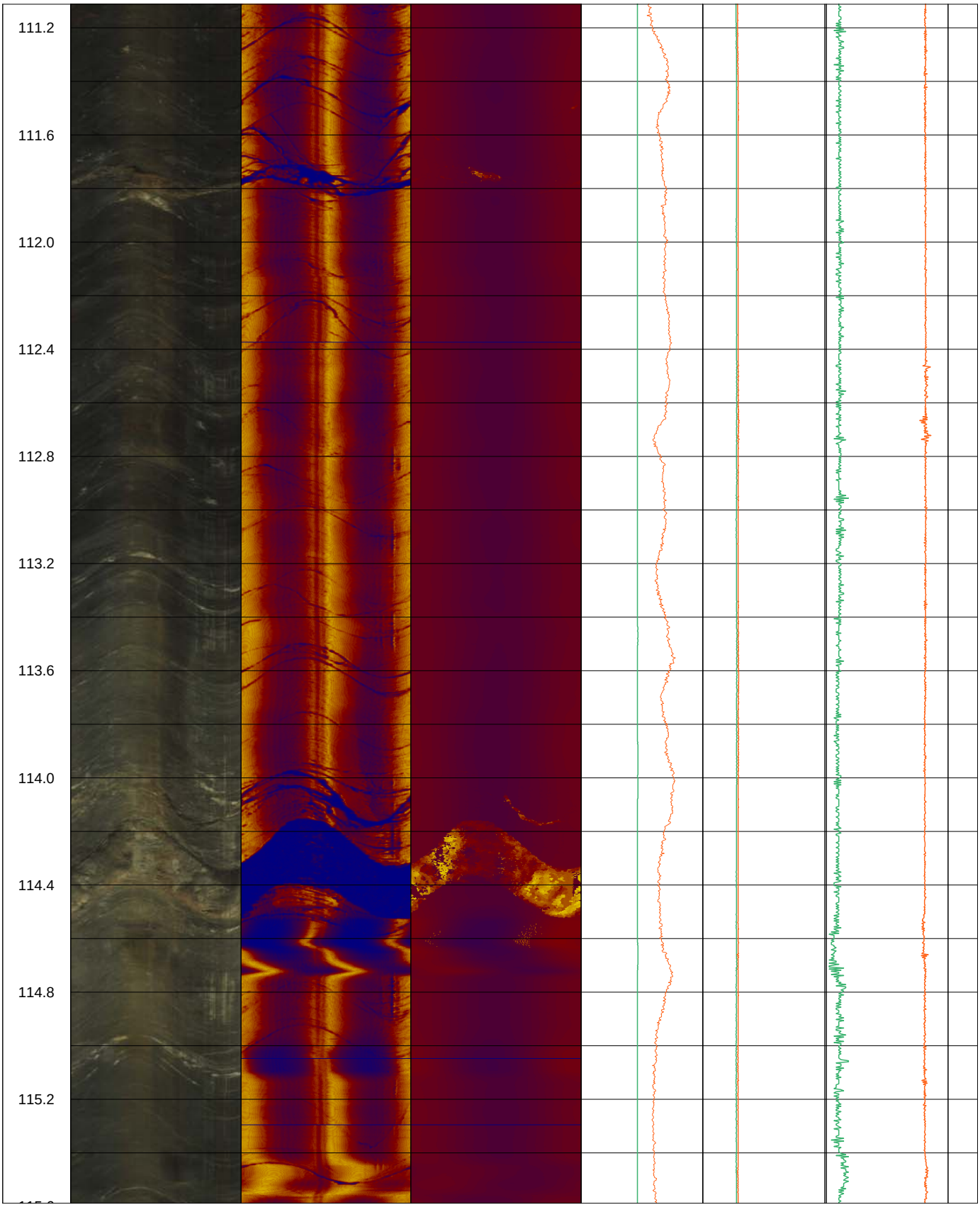
K17-439 Opictal & Acoustic Televiewer Survey Cont.



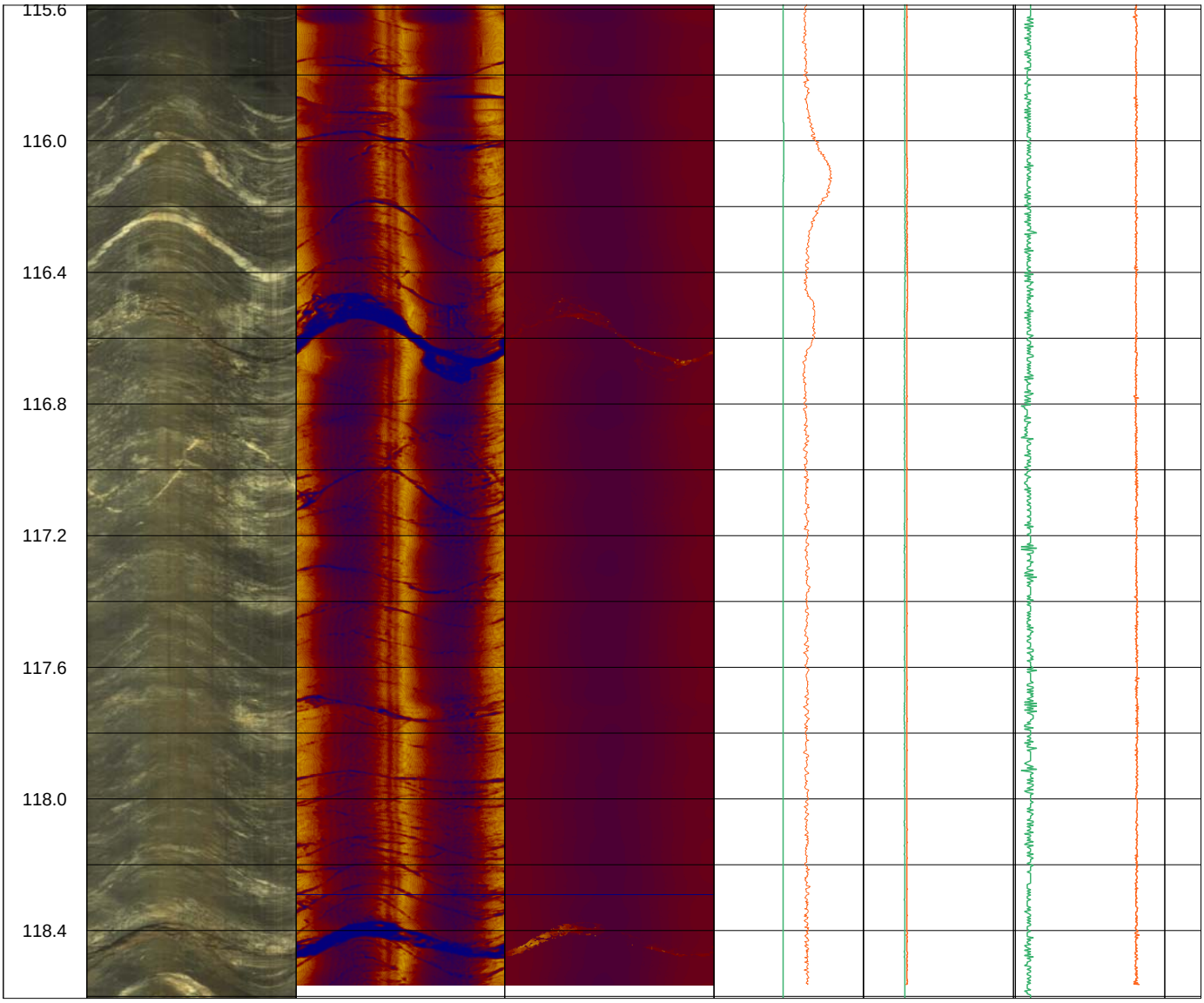
K17-439 Opictal & Acoustic Televiewer Survey Cont.



K17-439 Opictal & Acoustic Televiewer Survey Cont.



K17-439 Opictal & Acoustic Televiewer Survey Cont.



Appendix V: Drill Core Hyperspectral Imaging Data

This appendix contains short wave infrared (SWIR) spectral data from drill core analyzed during 2017.

Table W-1: Drill core TerraSpec interpreted mineralogy (The Spectral Assisstant)

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K94-018	10.7		Phengite	1	NULL	NULL	84.71
K94-018	21.8		Phengite	1	NULL	NULL	101.43
K94-018	15.6		Chlorite-FeMg	0.643	Phengite	0.357	137.93
K94-018	25.7		Phengite	1	NULL	NULL	104.15
K94-018	30.7		Phengite	0.809	Dolomite	0.191	63.527
K94-018	35.7		Phengite	1	NULL	NULL	167.62
K94-018	40.7		Phengite	1	NULL	NULL	108.24
K94-018	45.7		Phengite	1	NULL	NULL	101.58
K94-018	50.7		Phengite	1	NULL	NULL	55.226
K94-018	55.7		Phengite	1	NULL	NULL	141.68
K94-018	60.7		Muscovitic Illite	0.536	Chlorite-FeMg	0.464	57.655
K94-018	65.7		Phengite	1	NULL	NULL	153.02
K94-018	70.7		Phengite	1	NULL	NULL	80.782
K94-018	75.7		Phengite	1	NULL	NULL	70.88
K94-018	80.7		Phengite	1	NULL	NULL	95.104
K94-018	85.7		Phengite	1	NULL	NULL	96.051
K94-018	90.7		Phengite	1	NULL	NULL	65.676
K94-018	95.7		Phengite	1	NULL	NULL	111.29
K94-018	100.7		Phengite	1	NULL	NULL	84.93
K94-018	105.7		Phengite	1	NULL	NULL	75.649
K94-018	110.7		Phengite	1	NULL	NULL	93.451
K94-018	115.8		Muscovite	0.633	Ankerite	0.367	52.348
K94-018	120.7		Phengite	1	NULL	NULL	83.238
K94-018	125.7		Muscovite	1	NULL	NULL	142.17
K94-018	130.5		Muscovite	1	NULL	NULL	79.723
K94-018	135.5		Muscovite	1	NULL	NULL	106.49

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K94-018	140.5		Muscovite	1	NULL	NULL	40.852
K94-018	145.8		Phengite	1	NULL	NULL	108.31
K94-018	150.5		Muscovite	1	NULL	NULL	150.18
K94-018	155.5		Phengite	0.51	Ankerite	0.49	34.676
K94-018	160.5		Phengite	1	NULL	NULL	92.598
K94-018	165.5		Phengite	1	NULL	NULL	108.9
K94-018	170.5		Phengite	1	NULL	NULL	93.099
K94-018	175.5		Phengite	0.846	Calcite	0.154	120.65
K94-018	180.5		Muscovite	1	NULL	NULL	62.355
K94-018	185.5		Phengite	1	NULL	NULL	130.55
K94-018	190.5		Phengite	1	NULL	NULL	93.899
K94-018	195.5		Phengite	1	NULL	NULL	77.264
K94-018	200.3		Phengite	1	NULL	NULL	103.27
K94-018	205.5		Phengite	1	NULL	NULL	82.903
K94-018	210.5		Muscovite	1	NULL	NULL	115.26
K94-018	215.5		Muscovite	1	NULL	NULL	68.718
K94-018	220.5		Muscovite	0.556	Chlorite-FeMg	0.444	99.795
K94-018	225.5		Phengite	1	NULL	NULL	152.09
K94-018	230.5		Phengite	1	NULL	NULL	96.15
K94-018	235.5		Phengite	1	NULL	NULL	134.45
K94-018	240.5		Phengite	1	NULL	NULL	64.268
K94-018	244.9		Phengite	1	NULL	NULL	109.47
K94-018	247.9		Phengite	1	NULL	NULL	127.07
K94-018	250.9		Phengite	0.688	Chlorite-FeMg	0.312	142.54
K94-018	253.8		Phengite	1	NULL	NULL	106.08
K94-018	256.9		Phengite	1	NULL	NULL	49.281
K94-018	259.9		Phengite	1	NULL	NULL	81.298
K94-018	262.9		Phengite	1	NULL	NULL	90.431
K94-018	265.9		Phengite	0.698	Chlorite-Fe	0.302	165.26

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K94-018	268.9		Phengite	0.654	Ankerite	0.346	32.19
K94-018	271.9		Phengite	0.752	Chlorite-FeMg	0.248	48.429
K94-018	274.9		Chlorite-FeMg	0.7	Phengite	0.3	86.096
K94-018	277.9		Chlorite-Fe	0.624	Phengite	0.376	140.27
K94-018	280.9		Phengite	1	NULL	NULL	150.75
K94-018	283.9		Phengite	1	NULL	NULL	103.03
K94-018	286.9		Phengite	0.614	Chlorite-FeMg	0.386	148.22
K94-018	289.9		Chlorite-FeMg	0.501	Phengite	0.499	154.93
K94-018	292.9		Chlorite-Fe	1	NULL	NULL	212.9
K94-018	295.9		Chlorite-Fe	0.445	Ankerite	0.288	115.27
K94-018	298.9		Phengite	1	NULL	NULL	66.705
K94-018	301.9		Phengite	1	NULL	NULL	77.63
K94-018	304.9		Phengite	0.617	Chlorite-FeMg	0.383	83.42
K94-018	307.9		Phengite	0.624	Chlorite-FeMg	0.376	183.2
K94-023	6.6		Phengite	0.594	Chlorite-FeMg	0.406	127.84
K94-023	9.6		Phengite	1	NULL	NULL	104.04
K94-023	12.6		Phengite	0.575	Siderite	0.425	39.419
K94-023	15.6		Phengite	1	NULL	NULL	160.3
K94-023	18.6		Phengite	1	NULL	NULL	146.09
K94-023	21.6		Phengite	1	NULL	NULL	81.888
K94-023	24.6		Phengite	1	NULL	NULL	127.35
K94-023	27.6		Phengite	1	NULL	NULL	195.4
K94-023	30.6		Phengite	1	NULL	NULL	204.61
K94-023	33.6		Phengite	1	NULL	NULL	120.99
K94-023	36.6		Phengite	1	NULL	NULL	88.714
K94-023	39.6		Ankerite	0.602	Phengite	0.398	59.166
K94-023	42.6		Phengite	1	NULL	NULL	92.326
K94-023	45.6		Phengite	1	NULL	NULL	70.487
K94-023	48.6		Phengite	1	NULL	NULL	51.72

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K94-023	51.6		Phengite	1	NULL	NULL	79.937
K94-023	54.6		Phengite	0.771	Ankerite	0.229	150.52
K94-023	57.6		Chlorite-FeMg	0.826	Ankerite	0.174	49.012
K94-023	60.6		Phengite	0.827	Ankerite	0.173	113.98
K94-023	63.6		Phengite	1	NULL	NULL	73.641
K94-023	66.6		Phengite	1	NULL	NULL	109.93
K94-023	69.6		Phengite	1	NULL	NULL	80.524
K94-023	72.6		Phengite	1	NULL	NULL	71.736
K94-023	75.6		Phengite	1	NULL	NULL	106.18
K94-023	78.6		Phengite	1	NULL	NULL	73.343
K94-023	81.6		Phengite	1	NULL	NULL	85.774
K94-023	84.6		Phengite	1	NULL	NULL	80.095
K94-023	87.6		Phengite	1	NULL	NULL	64.423
K94-023	90.6		Phengite	1	NULL	NULL	83.727
K94-023	93.6		Phengite	1	NULL	NULL	77.237
K94-023	96.6		Phengite	1	NULL	NULL	130.43
K94-023	99.6		Phengite	1	NULL	NULL	135.38
K94-023	102.6		Phengite	1	NULL	NULL	100.45
K94-023	105.6		Phengite	1	NULL	NULL	57.427
K94-023	108.6		Phengite	1	NULL	NULL	94.36
K94-023	111.6		Phengite	1	NULL	NULL	126.49
K94-023	114.6		Phengite	1	NULL	NULL	83.934
K94-023	117.6		Phengite	1	NULL	NULL	70.302
K94-023	120.6		Phengite	1	NULL	NULL	76.514
K94-023	123.6		Phengite	1	NULL	NULL	128.38
K94-023	126.6		Muscovite	0.83	Vegetation-Dry	0.17	90.599
K94-023	129.6		Muscovite	1	NULL	NULL	146.64
K94-023	132.6		Muscovite	1	NULL	NULL	145.08
K94-023	135.6		Muscovite	1	NULL	NULL	160.64

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K94-023	138.6		Muscovite	1	NULL	NULL	147.99
K94-023	141.6		Muscovite	1	NULL	NULL	153.62
K94-023	144.6		Muscovite	1	NULL	NULL	118.83
K94-023	147.5		Muscovite	1	NULL	NULL	113.73
K94-023	150.6		Muscovite	1	NULL	NULL	100.24
K94-023	153.6		Muscovite	1	NULL	NULL	114.37
K94-023	156.6		Muscovite	1	NULL	NULL	150.83
K94-023	159.6		Muscovite	0.593	Chlorite-FeMg	0.407	156
K94-023	162.6		Phengite	0.762	Chlorite-FeMg	0.238	168.18
K94-023	171.6		Muscovite	1	NULL	NULL	104.7
K94-023	174.6		Muscovite	0.849	Ankerite	0.151	98.744
K94-023	183.6		Chlorite-FeMg	0.629	Phengite	0.206	70.183
K94-023	188.6		Chlorite-FeMg	0.762	Epidote	0.238	89.709
K94-023	193.6		Chlorite-FeMg	1	NULL	NULL	130.73
K94-023	198.6		Chlorite-FeMg	1	NULL	NULL	116.07
K94-023	203.6		Chlorite-FeMg	0.529	Phengite	0.471	107.35
K94-023	208.6		Chlorite-FeMg	0.441	Phengite	0.395	87.543
K94-023	211.6		Phengite	0.811	Siderite	0.189	77.52
K94-023	214.6		Muscovite	1	NULL	NULL	141.06
K94-023	217.6		Muscovite	1	NULL	NULL	156.57
K94-023	220.6		Muscovite	1	NULL	NULL	72.473
K94-023	223.6		Muscovite	1	NULL	NULL	152.99
K94-023	226.6		Muscovite	0.532	Kaolinite-WX	0.296	40.62
K94-023	229.6		Muscovite	1	NULL	NULL	79.986
K94-023	232.6		Muscovite	1	NULL	NULL	69.389
K94-023	235.6		Muscovite	1	NULL	NULL	70.153
K94-023	238.6		Muscovite	1	NULL	NULL	77.081
K94-023	241.6		Muscovite	0.789	Chlorite-Mg	0.211	58.336
K94-023	244.6		Muscovite	1	NULL	NULL	39.808

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K94-023	247.6		Muscovite	0.531	Chlorite-FeMg	0.469	63.501
K94-023	250.6		Muscovite	0.802	Kaolinite-WX	0.198	60.313
K94-023	253.7		Muscovite	1	NULL	NULL	68.61
K94-023	256.6		Muscovite	0.416	Siderite	0.329	82.93
K94-033	17.8		Phengite	1	NULL	NULL	87.821
K94-033	22.8		Phengite	1	NULL	NULL	84.308
K94-033	27.8		Phengite	1	NULL	NULL	82.665
K94-033	32.8		Phengite	1	NULL	NULL	87.163
K94-033	37.8		Phengite	1	NULL	NULL	83.97
K94-033	42.8		Phengite	1	NULL	NULL	221.53
K94-033	47.8		Chlorite-FeMg	0.782	Muscovite	0.218	64.619
K94-033	52.8		Phengite	1	NULL	NULL	76.175
K94-033	57.8		Phengite	1	NULL	NULL	103.61
K94-033	62.8		Phengite	1	NULL	NULL	102.73
K94-033	67.8		Phengite	1	NULL	NULL	103.51
K94-033	72.8		Phengite	1	NULL	NULL	69.101
K94-033	77.8		Phengite	1	NULL	NULL	150.99
K94-033	82.8		Phengite	1	NULL	NULL	89.555
K94-033	87.8		Phengite	1	NULL	NULL	75.204
K94-033	92.8		Phengite	1	NULL	NULL	61.375
K94-033	97.8		Phengite	1	NULL	NULL	61.69
K94-033	102.8		Phengite	1	NULL	NULL	92.572
K94-033	107.8		Phengite	0.813	Siderite	0.187	83.095
K94-033	110.8		Phengite	1	NULL	NULL	96.1
K94-033	113.8		Phengite	1	NULL	NULL	74.911
K94-033	116.8		Phengite	1	NULL	NULL	97.489
K94-033	119.8		Phengite	1	NULL	NULL	89.312
K94-033	121.8		Phengite	1	NULL	NULL	93.489
K94-033	125.8		Phengite	1	NULL	NULL	112.32

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K94-033	127.8		Phengite	1	NULL	NULL	84.203
K94-033	130.8		Phengite	1	NULL	NULL	91.871
K94-033	133.8		Phengite	1	NULL	NULL	93.859
K94-033	136.8		Phengite	1	NULL	NULL	91.283
K94-033	139.8		Phengite	1	NULL	NULL	150.68
K94-033	142.8		Phengite	1	NULL	NULL	78.697
K94-033	145.8		Phengite	0.785	Siderite	0.215	65.028
K94-033	148.8		Muscovite	1	NULL	NULL	98.625
K94-033	151.8		Phengite	1	NULL	NULL	77.015
K94-033	154.8		Muscovite	1	NULL	NULL	81.952
K94-033	157.8		Muscovite	1	NULL	NULL	204.76
K94-033	160.8		Muscovite	1	NULL	NULL	120.83
K94-033	163.8		Chlorite-FeMg	0.578	Muscovite	0.422	45.793
K94-033	166.9		Muscovite	1	NULL	NULL	138.82
K94-033	169.8		Muscovite	1	NULL	NULL	168.21
K94-033	172.8		Muscovite	1	NULL	NULL	139.08
K94-033	175.8		Muscovite	1	NULL	NULL	154.09
K94-033	178.8		Muscovite	0.749	Ankerite	0.251	75.036
K94-033	181.8		Muscovite	1	NULL	NULL	86.455
K94-033	184.9		Ankerite	0.729	Muscovite	0.271	61.679
K94-033	187.8		Muscovite	1	NULL	NULL	108.34
K94-033	190.8		Muscovite	1	NULL	NULL	119.88
K94-033	193.8		Muscovite	1	NULL	NULL	90.9
K94-033	196.8		Chlorite-FeMg	0.503	Muscovite	0.497	103.04
K94-033	199.8		Muscovite	0.51	Chlorite-FeMg	0.49	97.533
K94-033	202.8		Chlorite-FeMg	0.693	Muscovite	0.307	50.171
K94-033	205.8		Muscovite	0.514	Chlorite-FeMg	0.486	105.07
K94-033	208.8		Phengite	0.623	Chlorite-FeMg	0.377	67.919
K94-033	211.8		Chlorite-FeMg	1	NULL	NULL	64.57

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K94-033	214.8		Chlorite-FeMg	1	NULL	NULL	84.614
K94-033	217.8		Chlorite-FeMg	0.749	Phengite	0.251	110.49
K94-033	220.8		Chlorite-FeMg	0.624	Calcite	0.376	129.65
K94-033	223.8		Chlorite-FeMg	1	NULL	NULL	105.46
K94-033	226.8		Chlorite-FeMg	0.687	Phengite	0.157	65.919
K94-033	229.8		Phengite	0.831	Chlorite-Mg	0.169	119.63
K95-071	10		Phengite	0.709	Chlorite-FeMg	0.291	118.07
K95-071	13		Phengite	0.713	Siderite	0.287	109.99
K95-071	16		Phengite	1	NULL	NULL	76.531
K95-071	19		Phengite	0.708	Chlorite-FeMg	0.292	114.8
K95-071	22		Phengite	1	NULL	NULL	69.287
K95-071	25		Phengite	1	NULL	NULL	111.86
K95-071	28		Phengite	1	NULL	NULL	91.324
K95-071	31		Phengite	1	NULL	NULL	64.076
K95-071	34		Phengite	1	NULL	NULL	103.23
K95-071	37		Phengite	1	NULL	NULL	74.613
K95-071	40		Phengite	1	NULL	NULL	101.97
K95-071	43		Muscovite	1	NULL	NULL	140.31
K95-071	46		Phengite	0.815	Ankerite	0.185	112.09
K95-071	49		Phengite	0.812	Ankerite	0.188	114.93
K95-071	52		Phengite	1	NULL	NULL	65.886
K95-071	55		Phengite	1	NULL	NULL	74.552
K95-071	58		Phengite	1	NULL	NULL	81.813
K95-071	60.9		Phengite	1	NULL	NULL	92.065
K95-071	64		Phengite	1	NULL	NULL	57.146
K95-071	67		Phengite	1	NULL	NULL	69.409
K95-071	70		Muscovite	1	NULL	NULL	160.77
K95-071	73		Muscovite	1	NULL	NULL	114.48
K95-071	76		Phengite	1	NULL	NULL	98.106

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K95-071	79		Muscovite	1	NULL	NULL	107.67
K95-071	82		Phengite	0.634	Chlorite-FeMg	0.366	79.793
K95-071	85		Muscovite	1	NULL	NULL	99.739
K95-071	88		Muscovite	1	NULL	NULL	99.059
K95-071	91		Muscovite	1	NULL	NULL	90.272
K95-071	94		Muscovite	1	NULL	NULL	107.42
K95-071	97		Phengite	1	NULL	NULL	154.27
K95-071	100		Phengite	1	NULL	NULL	150.4
K95-071	130.6		Chlorite-FeMg	0.733	Phengite	0.267	107.53
K95-071	133.6		Muscovite	0.8	Dolomite	0.2	111.55
K95-071	136.6		Muscovite	0.597	Chlorite-FeMg	0.403	68.644
K95-071	139.6		Muscovite	0.546	Chlorite-FeMg	0.454	106.85
K95-071	142.6		Phengite	0.841	Ankerite	0.159	167.41
K95-071	145.6		Chlorite-FeMg	1	NULL	NULL	106.17
K95-071	150.6		Chlorite-FeMg	0.448	Hornblende	0.345	92.368
K95-071	155.6		Chlorite-FeMg	0.535	Phengite	0.465	178.84
K95-071	160.6		Phengite	1	NULL	NULL	119.22
K95-071	165.7		Phengite	1	NULL	NULL	88.106
K95-071	170.6		Phengite	1	NULL	NULL	94.242
K95-075	7.4		Muscovite	0.609	Ankerite	0.391	108.26
K95-075	10		Muscovite	1	NULL	NULL	53.758
K95-075	20.6		Phengite	1	NULL	NULL	35.621
K95-075	23.9		Phengite	1	NULL	NULL	73.572
K95-075	38.2		Phengite	1	NULL	NULL	41.867
K95-075	41.2		Phengite	1	NULL	NULL	87.178
K95-075	44.1		Phengite	1	NULL	NULL	81.758
K95-075	47.2		Phengite	1	NULL	NULL	86.424
K95-075	50.2		Aspectral	1	NULL	NULL	47.849
K95-075	53.6		Phengite	1	NULL	NULL	78.587

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K95-075	56.2		Phengite	1	NULL	NULL	45.563
K95-075	59.2		Phengite	1	NULL	NULL	134.69
K95-075	61.2		Muscovite	1	NULL	NULL	72.753
K95-075	64.2		Phengite	1	NULL	NULL	162.67
K95-075	67.2		Phengite	1	NULL	NULL	200
K95-075	70.2		Chlorite-FeMg	0.728	Epidote	0.272	75.725
K95-075	73.2		Chlorite-FeMg	0.673	Phengite	0.327	189.26
K95-075	76.2		Phengite	1	NULL	NULL	92.757
K95-075	79.2		Phengite	1	NULL	NULL	129.5
K95-100	8.2		Phengite	1	NULL	NULL	166.45
K95-100	11.2		Phengite	1	NULL	NULL	286.03
K95-100	14.2		Phengite	1	NULL	NULL	169.67
K95-100	17.2		Phengite	1	NULL	NULL	162.13
K95-100	20.2		Phengite	1	NULL	NULL	178.52
K95-100	23.2		Phengite	1	NULL	NULL	50.192
K95-100	26.2		Phengite	1	NULL	NULL	108.11
K95-100	29.1		Phengite	1	NULL	NULL	78.622
K95-100	32.3		Phengite	1	NULL	NULL	92.186
K95-100	35.3		Muscovite	1	NULL	NULL	36.482
K95-100	38.4		Muscovitic Illite	0.813	Montmorillonite	0.187	96.172
K95-100	41.5		Phengite	1	NULL	NULL	72.739
K95-117	5.4		Chlorite-FeMg	0.77	Phengite	0.23	95.127
K95-117	10.4		Phengite	1	NULL	NULL	97.096
K95-117	15.4		Phengite	1	NULL	NULL	85.048
K95-117	20.4		Phengite	1	NULL	NULL	73.438
K95-117	23.4		Phengite	1	NULL	NULL	98.924
K95-117	26.3		Phengite	1	NULL	NULL	109.66
K95-117	29.4		Phengite	1	NULL	NULL	83.279
K95-117	32.4		Phengite	1	NULL	NULL	208.67

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K95-117	35.4		Phengite	1	NULL	NULL	92.177
K95-117	38.4		Phengite	1	NULL	NULL	106.64
K95-117	41.4		Phengite	1	NULL	NULL	98.081
K95-117	44.4		Phengite	0.718	Ankerite	0.282	65.742
K95-117	47.4		Phengite	1	NULL	NULL	103.95
K95-117	50.4		Phengite	1	NULL	NULL	73.982
K95-117	53.4		Phengite	0.814	Ankerite	0.186	129.63
K95-117	56.4		Phengite	1	NULL	NULL	109.41
K95-117	59.4		Phengite	0.782	Kaolinite-PX	0.218	61.567
K95-117	62.4		Phengite	0.803	Siderite	0.197	111.82
K95-117	65.4		Phengite	1	NULL	NULL	180.11
K95-117	68.4		Muscovite	0.843	Ankerite	0.157	89.224
K95-117	71.4		Phengite	1	NULL	NULL	85.449
K95-117	74.4		Phengite	1	NULL	NULL	171.52
K95-117	77.4		Muscovite	1	NULL	NULL	153.36
K95-117	80.4		Muscovite	1	NULL	NULL	105.74
K95-117	83.4		Phengite	1	NULL	NULL	120.19
K95-117	86.4		Phengite	1	NULL	NULL	107.18
K95-117	89.4		Phengite	1	NULL	NULL	119.12
K95-117	92.4		Phengite	1	NULL	NULL	106.9
K95-117	95.4		Muscovite	1	NULL	NULL	128.65
K95-117	98.4		Muscovite	1	NULL	NULL	94.048
K95-117	101.4		Muscovite	1	NULL	NULL	100.75
K95-117	104.3		Muscovite	1	NULL	NULL	92.128
K95-117	107.2		Muscovite	1	NULL	NULL	56.159
K95-117	110.4		Muscovite	1	NULL	NULL	91.947
K95-117	113.4		Muscovite	0.695	Chlorite-Fe	0.305	115.26
K95-117	116.4		Muscovite	1	NULL	NULL	93.196
K95-117	119.4		Muscovite	1	NULL	NULL	118.78

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K95-117	122.5		Muscovite	0.603	Chlorite-FeMg	0.397	85.863
K95-117	125.4		Aspectral	1	NULL	NULL	162.45
K95-117	128.4		Aspectral	1	NULL	NULL	89.119
K95-117	131.4		Aspectral	1	NULL	NULL	499.62
K95-117	134.4		Phengite	1	NULL	NULL	133.94
K95-117	137.5		Aspectral	1	NULL	NULL	77.52
K95-117	140.4		Aspectral	1	NULL	NULL	948.74
K95-117	143.4		Aspectral	1	NULL	NULL	165.5
K95-117	149.4		Aspectral	1	NULL	NULL	226.69
K95-117	152.1		Aspectral	1	NULL	NULL	150.92
K95-117	155.3		Phengite	1	NULL	NULL	51.057
K95-117	158.2		Phengite	1	NULL	NULL	120.43
K95-117	161.3		Phengite	1	NULL	NULL	105.16
K95-117	164.4		Phengite	0.837	Calcite	0.163	136.9
K95-117	167.4		Phengite	0.672	Ankerite	0.328	43.316
K95-117	170.3		Phengite	1	NULL	NULL	136.41
K95-154	6.1		Phengite	1	NULL	NULL	90.097
K95-154	11.1		Phengite	0.768	Chlorite-FeMg	0.232	126.07
K95-154	16.1		Phengite	0.833	Chlorite-FeMg	0.167	91.101
K95-154	21.1		Phengite	1	NULL	NULL	68.816
K95-154	26.1		Phengite	1	NULL	NULL	109.61
K95-154	31.1		Phengite	1	NULL	NULL	87.206
K95-154	36.1		Muscovite	1	NULL	NULL	80.686
K95-154	41.1		Chlorite-FeMg	0.573	Phengite	0.427	60.801
K95-154	46.1		Phengite	0.604	Siderite	0.396	90.617
K95-154	51.1		Phengite	1	NULL	NULL	106.96
K95-154	56.1		Phengite	1	NULL	NULL	97.474
K95-154	61.1		Phengite	1	NULL	NULL	82.249
K95-154	66.1		Phengite	1	NULL	NULL	176.87

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K95-154	71.1		Phengite	1	NULL	NULL	140.1
K95-154	76.1		Phengite	1	NULL	NULL	118.84
K95-154	81.1		Chlorite-FeMg	0.845	Phlogopite	0.155	88.179
K95-154	86.1		Phengite	1	NULL	NULL	89.731
K95-154	96.1		Phengite	1	NULL	NULL	78.544
K95-154	101.1		Phengite	0.795	Siderite	0.205	79.555
K95-154	106.1		Phengite	1	NULL	NULL	87.961
K95-154	111.1		Phengite	1	NULL	NULL	93.347
K95-154	116.1		Phengite	1	NULL	NULL	133.1
K95-154	121.1		Muscovite	1	NULL	NULL	173.24
K95-154	126.1		Muscovite	1	NULL	NULL	95.909
K95-154	131.1		Dolomite	1	NULL	NULL	39.613
K95-154	136.1		Muscovite	1	NULL	NULL	85.047
K95-154	141.1		Muscovite	1	NULL	NULL	142.52
K95-154	146.1		Muscovite	1	NULL	NULL	135.7
K95-154	156.1		Chlorite-FeMg	1	NULL	NULL	97.786
K95-154	159.1		Phengite	1	NULL	NULL	125.08
K95-154	162.1		Siderite	1	NULL	NULL	390.12
K95-154	165.1		Aspectral	1	NULL	NULL	219.97
K95-154	168.1		Aspectral	1	NULL	NULL	341.1
K95-154	171.1		Zoisite	1	NULL	NULL	125.36
K95-154	174.1		Phengite	1	NULL	NULL	105.51
K95-154	177.1		Chlorite-FeMg	0.691	Phengite	0.309	89.891
K95-154	180.1		Chlorite-FeMg	0.603	Phengite	0.243	103.15
K95-154	183.1		Chlorite-FeMg	0.788	Phengite	0.212	88.97
K95-154	186.1		Chlorite-FeMg	1	NULL	NULL	194.27
K97-174	8.6		Phengite	0.647	Gypsum	0.353	182.51
K97-174	13.6		Chlorite-FeMg	1	NULL	NULL	192.39
K97-174	18.6		Aspectral	1	NULL	NULL	117.23

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K97-174	23.6		Aspectral	1	NULL	NULL	142.16
K97-174	28.6		Phengite	0.578	Chlorite-FeMg	0.422	143.04
K97-174	33.6		Aspectral	1	NULL	NULL	126.95
K97-174	38.6		Aspectral	1	NULL	NULL	79.14
K97-174	43.6		Phengite	1	NULL	NULL	129.33
K97-174	48.6		Phengite	0.575	Biotite	0.425	137.71
K97-174	53.6		Phengite	1	NULL	NULL	154.39
K97-174	38.6		Phengite	0.64	Chlorite-FeMg	0.36	123.72
K97-174	63.6		Phengite	1	NULL	NULL	117.68
K97-174	68.6		Phengite	1	NULL	NULL	146.4
K97-174	73.6		Phengite	1	NULL	NULL	154.08
K97-174	76.6		Phengite	1	NULL	NULL	104.87
K97-174	79.6		Phengite	1	NULL	NULL	120.9
K97-174	82.6		Phengite	1	NULL	NULL	86.321
K97-174	85.6		Phengite	1	NULL	NULL	124.34
K97-174	88.6		Phengite	1	NULL	NULL	120.6
K97-174	91.6		Phengite	1	NULL	NULL	112.73
K97-174	94.6		Phengite	1	NULL	NULL	60.128
K97-174	97.6		Phengite	1	NULL	NULL	143.94
K97-174	100.6		Phengite	1	NULL	NULL	93.142
K97-174	103.6		Phengite	1	NULL	NULL	121.01
K97-174	106.6		Phengite	1	NULL	NULL	112.99
K97-174	109.6		Phengite	1	NULL	NULL	116.51
K97-174	112.6		Phengite	0.764	Chlorite-FeMg	0.236	107.14
K97-174	115.6		Phengite	1	NULL	NULL	71.642
K97-174	118.6		Phengite	1	NULL	NULL	104.06
K97-174	121.6		Chlorite-FeMg	1	NULL	NULL	167.92
K97-174	124.7		Phengite	1	NULL	NULL	106.21
K97-174	127.6		Phengite	1	NULL	NULL	137.5

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K97-174	130.6		Phengite	1	NULL	NULL	192.12
K97-174	133.6		Chlorite-FeMg	0.79	Phengite	0.21	64.183
K97-174	136.6		Aspectral	1	NULL	NULL	49.249
K97-174	139.6		Phengite	1	NULL	NULL	97.366
K97-174	142.6		Muscovite	1	NULL	NULL	96.632
K97-174	145.6		Muscovite	1	NULL	NULL	95.458
K97-174	148.6		Muscovite	1	NULL	NULL	114.88
K97-174	151.6		Muscovite	1	NULL	NULL	106.35
K97-174	154.6		Muscovite	1	NULL	NULL	129.54
K97-174	157.6		Phengite	1	NULL	NULL	86.427
K97-174	160.6		Phengite	1	NULL	NULL	64.727
K97-174	163.6		Chlorite-FeMg	0.522	Biotite	0.478	383.73
K97-174	166.6		Phengite	1	NULL	NULL	66.708
K97-174	169.6		Muscovite	1	NULL	NULL	105.22
K97-174	172.6		Phengite	1	NULL	NULL	132.07
K97-174	175.6		Phengite	1	NULL	NULL	88.906
K97-174	178.6		Muscovite	1	NULL	NULL	107.27
K97-174	181.6		Muscovite	1	NULL	NULL	109.02
K97-174	184.6		Muscovite	1	NULL	NULL	105.73
K97-174	187.6		Muscovite	1	NULL	NULL	87.843
K97-174	190.6		Muscovite	1	NULL	NULL	116.75
K97-174	193.6		Muscovite	1	NULL	NULL	106.32
K97-174	196.6		Muscovite	1	NULL	NULL	58.654
K97-174	199.6		Muscovite	1	NULL	NULL	51.534
K97-174	202.6		Muscovite	1	NULL	NULL	38.05
K97-174	205.6		Muscovite	1	NULL	NULL	100.21
K97-174	208.6		Muscovite	1	NULL	NULL	87.138
K97-174	211.6		Muscovite	0.84	Ankerite	0.16	28.924
K97-174	214.6		Muscovite	1	NULL	NULL	42.921

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K97-174	217.6		Muscovite	1	NULL	NULL	36.329
K97-174	220.6		Muscovite	0.615	Chlorite-FeMg	0.385	45.242
K97-174	223.6		Ankerite	0.509	Muscovite	0.491	66.904
K97-174	226.6		Muscovite	1	NULL	NULL	88.598
K97-174	229.6		Muscovite	0.671	Chlorite-FeMg	0.329	50.467
K97-174	232.6		Dolomite	1	NULL	NULL	82.956
K97-174	235.6		Aspectral	1	NULL	NULL	105.01
K97-174	238.6		Muscovite	0.566	Siderite	0.434	78.108
K97-174	241.6		Muscovite	1	NULL	NULL	139.02
K97-174	244.6		Chlorite-FeMg	0.576	Muscovite	0.424	110.83
K97-174	247.6		Muscovite	1	NULL	NULL	134.38
K97-174	250.7		Muscovite	0.621	Chlorite-FeMg	0.379	130.31
K97-174	253.6		Phengite	0.663	Dolomite	0.337	38.826
K97-174	256.6		Chlorite-FeMg	0.822	Muscovite	0.178	60.261
K97-174	259.4		Muscovite	1	NULL	NULL	114.77
K97-174	262.6		Muscovite	1	NULL	NULL	126.69
K97-174	265.6		Muscovite	1	NULL	NULL	191.43
K97-174	268.6		Muscovite	1	NULL	NULL	152.16
K97-174	271.6		Muscovite	0.805	Ankerite	0.195	133.89
K97-174	274.6		Muscovite	0.674	Chlorite-FeMg	0.326	68.062
K97-174	277.6		Muscovite	1	NULL	NULL	134.75
K97-174	280.6		Muscovite	1	NULL	NULL	104.75
K97-174	283.6		Muscovite	1	NULL	NULL	107.87
K97-174	286.6		Muscovite	1	NULL	NULL	78.182
K97-174	289.6		Muscovite	1	NULL	NULL	73.834
K97-174	292.6		Muscovite	1	NULL	NULL	107.33
K97-174	295.6		Ankerite	0.526	Muscovite	0.474	66.405
K97-174	298.5		Muscovite	1	NULL	NULL	157.36
K97-174	301.6		Muscovite	1	NULL	NULL	107.34

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K97-174	304.6		Muscovite	0.741	Siderite	0.259	87.251
K97-174	307.6		Muscovite	1	NULL	NULL	82.262
K97-174	310.6		Chlorite-FeMg	0.524	Muscovite	0.476	137.38
K97-174	313.6		Muscovite	0.737	Chlorite-FeMg	0.263	130.77
K97-174	316.6		Muscovite	0.681	Chlorite-FeMg	0.319	83.87
K97-174	319.6		Muscovite	1	NULL	NULL	76.516
K97-174	322.6		Muscovite	1	NULL	NULL	96.207
K97-174	325.6		Muscovite	1	NULL	NULL	67.737
K97-174	328.6		Muscovite	1	NULL	NULL	72.795
K97-174	331.6		Muscovite	0.712	Chlorite-FeMg	0.288	72.037
K97-174	334.6		Muscovite	1	NULL	NULL	81.656
K97-174	337.6		Muscovite	1	NULL	NULL	81.533
K97-174	340.6		Muscovite	1	NULL	NULL	61.254
K97-174	343.6		Chlorite-Fe	1	NULL	NULL	110.18
K97-174	346.6		Muscovite	1	NULL	NULL	183.18
K97-174	349.6		Muscovite	1	NULL	NULL	127.6
K97-174	352.6		Muscovite	1	NULL	NULL	133.15
K97-174	355.6		Muscovite	1	NULL	NULL	116.84
K97-174	358.6		Muscovite	1	NULL	NULL	111.78
K97-174	361.6		Muscovite	0.705	Ankerite	0.295	51.845
K97-174	364.6		Muscovite	1	NULL	NULL	116.31
K97-174	367.6		Chlorite-FeMg	0.594	Phengite	0.406	147.87
K97-174	370.6		Phengite	1	NULL	NULL	128.55
K97-174	373.6		Muscovite	1	NULL	NULL	152
K97-174	376.6		Muscovite	0.539	Chlorite-FeMg	0.461	101.27
K97-177	8.2		Phengite	1	NULL	NULL	71.37
K97-177	13.2		Phengite	0.775	Ankerite	0.225	141.8
K97-177	18.2		Phengite	1	NULL	NULL	134.39
K97-177	23.2		Phengite	1	NULL	NULL	152.91

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K97-177	26.5		Aspectral	1	NULL	NULL	169.12
K97-177	29.2		Phengite	1	NULL	NULL	109.45
K97-177	32.2		Phengite	1	NULL	NULL	118.93
K97-177	35.3		Phengite	1	NULL	NULL	183.38
K97-177	38.3		Phengite	1	NULL	NULL	77.618
K97-177	41.3		Phengite	1	NULL	NULL	58.149
K97-177	44.3		Phengite	1	NULL	NULL	50.543
K97-177	47.3		Phengite	1	NULL	NULL	75.295
K97-177	52.3		Phengite	1	NULL	NULL	226.55
K97-177	50.3		Phengite	1	NULL	NULL	130.41
K97-177	55.3		Phengite	0.841	Ankerite	0.159	95.124
K97-177	58.3		Phengite	1	NULL	NULL	81.82
K97-177	62.5		Muscovite	1	NULL	NULL	99.817
K97-177	65.3		Phengite	1	NULL	NULL	87.335
K15-203	4.8		Phengite	1	NULL	NULL	84.979
K15-203	4.8		Phengite	1	NULL	NULL	78.134
K15-203	4.8		Phengite	1	NULL	NULL	81.443
K15-203	9.8		Phengite	1	NULL	NULL	90.189
K15-203	9.8		Phengite	1	NULL	NULL	86.582
K15-203	9.8		Phengite	1	NULL	NULL	103.82
K15-203	14.8		Phengite	1	NULL	NULL	120.51
K15-203	14.8		Phengite	1	NULL	NULL	132.72
K15-203	14.8		Phengite	1	NULL	NULL	134.15
K15-203	19.8		Phengite	1	NULL	NULL	84.663
K15-203	19.8		Phengite	1	NULL	NULL	84.264
K15-203	24.8		Phengite	1	NULL	NULL	117.39
K15-203	24.8		Phengite	1	NULL	NULL	135.66
K15-203	24.8		Phengite	1	NULL	NULL	129.44
K15-203	29.8		Phengite	1	NULL	NULL	80.15

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-203	29.8		Phengite	1	NULL	NULL	94.021
K15-203	29.8		Phengite	1	NULL	NULL	104.36
K15-203	34.8		Phengite	1	NULL	NULL	77.719
K15-203	34.8		Phengite	1	NULL	NULL	69.606
K15-203	34.8		Phengite	1	NULL	NULL	65.233
K15-203	39.8		Phengite	1	NULL	NULL	115.06
K15-203	39.8		Phengite	0.845	Ankerite	0.155	101.24
K15-203	39.8		Phengite	0.745	Siderite	0.255	114.1
K15-203	44.8		Muscovite	1	NULL	NULL	125.82
K15-203	44.8		Phengite	1	NULL	NULL	114.95
K15-203	44.8		Phengite	1	NULL	NULL	118.41
K15-203	49.8		Phengite	1	NULL	NULL	72.54
K15-203	49.8		Phengite	1	NULL	NULL	90.531
K15-203	49.8		Phengite	1	NULL	NULL	78.341
K15-203	54.8		Phengite	1	NULL	NULL	94.118
K15-203	54.8		Phengite	1	NULL	NULL	107.7
K15-203	54.8		Phengite	1	NULL	NULL	99.053
K15-203	59.8		Phengite	1	NULL	NULL	111.04
K15-203	59.8		Phengite	1	NULL	NULL	115.53
K15-203	59.8		Phengite	1	NULL	NULL	123.12
K15-203	64.8		Phengite	1	NULL	NULL	120.43
K15-203	64.8		Phengite	1	NULL	NULL	109.35
K15-203	64.8		Phengite	1	NULL	NULL	117.21
K15-203	69.8		Phengite	1	NULL	NULL	48.803
K15-203	69.8		Phengite	1	NULL	NULL	83.919
K15-203	69.8		Phengite	1	NULL	NULL	38.778
K15-203	72.8		Muscovite	1	NULL	NULL	86.658
K15-203	72.8		Muscovite	1	NULL	NULL	77.747
K15-203	72.8		Muscovite	1	NULL	NULL	81.001

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-203	75.8		Muscovite	1	NULL	NULL	98.4
K15-203	75.8		Muscovite	1	NULL	NULL	99.562
K15-203	75.8		Muscovite	1	NULL	NULL	112.85
K15-203	78.8		Phengite	1	NULL	NULL	67.535
K15-203	78.8		Muscovite	1	NULL	NULL	75.466
K15-203	78.8		Muscovite	1	NULL	NULL	64.113
K15-203	81.8		Phengite	1	NULL	NULL	131.94
K15-203	81.8		Muscovite	1	NULL	NULL	127.42
K15-203	81.8		Phengite	1	NULL	NULL	117.01
K15-203	84.8		Muscovite	1	NULL	NULL	132.62
K15-203	84.8		Muscovite	1	NULL	NULL	134.42
K15-203	84.8		Muscovite	1	NULL	NULL	116.92
K15-203	87.8		Muscovite	1	NULL	NULL	73.276
K15-203	87.8		Muscovite	1	NULL	NULL	88.047
K15-203	87.8		Muscovite	1	NULL	NULL	83.428
K15-203	90.8		Muscovite	1	NULL	NULL	104.74
K15-203	90.8		Muscovite	1	NULL	NULL	116.26
K15-203	90.8		Muscovite	1	NULL	NULL	107.23
K15-203	93.8		Muscovite	1	NULL	NULL	46.059
K15-203	93.8		Muscovite	1	NULL	NULL	54.554
K15-203	93.8		Muscovite	1	NULL	NULL	63.233
K15-203	96.8		Muscovite	1	NULL	NULL	110.58
K15-203	96.8		Muscovite	1	NULL	NULL	126.8
K15-203	96.8		Muscovite	1	NULL	NULL	135.43
K15-203	99.8		Phengite	1	NULL	NULL	180.84
K15-203	99.8		Phengite	1	NULL	NULL	131.8
K15-203	99.8		Phengite	1	NULL	NULL	130.16
K15-203	111.8		Phengite	1	NULL	NULL	107.99
K15-203	111.8		Phengite	1	NULL	NULL	111.23

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-203	111.8		Phengite	1	NULL	NULL	110.59
K15-203	114.8		Muscovite	0.819	Chlorite-Mg	0.181	113.54
K15-203	114.8		Chlorite-FeMg	0.728	Muscovite	0.272	103.1
K15-203	114.8		Chlorite-FeMg	0.751	Muscovite	0.249	112.93
K15-203	117.8		Chlorite-FeMg	1	NULL	NULL	86.103
K15-203	117.8		Chlorite-FeMg	1	NULL	NULL	166.66
K15-203	117.8		Chlorite-Mg	0.756	Muscovite	0.244	232
K15-203	120.8		Aspectral	1	NULL	NULL	372.31
K15-203	120.8		Aspectral	1	NULL	NULL	917.49
K15-203	120.8		Aspectral	1	NULL	NULL	1000
K15-203	124		Aspectral	1	NULL	NULL	218.55
K15-203	124		Aspectral	1	NULL	NULL	216.97
K15-203	124		Aspectral	1	NULL	NULL	195.39
K15-203	126.8		Aspectral	1	NULL	NULL	73.6
K15-203	126.8		Aspectral	1	NULL	NULL	50.657
K15-203	126.8		Aspectral	1	NULL	NULL	67.115
K15-203	129.8		Chlorite-Fe	1	NULL	NULL	398.83
K15-203	129.8		Chlorite-FeMg	0.595	Biotite	0.405	276.91
K15-203	129.8		Chlorite-Fe	0.566	Biotite	0.434	246.56
K15-203	132.8		Muscovitic Illite	1	NULL	NULL	82.632
K15-203	132.8		Muscovite	0.843	Ankerite	0.157	69.301
K15-203	132.8		Muscovite	0.681	Montmorillonite	0.169	60.266
K15-203	135.8		Phengite	1	NULL	NULL	99.115
K15-203	135.8		Phengite	1	NULL	NULL	87.002
K15-203	135.8		Phengite	1	NULL	NULL	75.802
K15-203	138.8		Aspectral	1	NULL	NULL	130.73
K15-203	138.8		Aspectral	1	NULL	NULL	298.6
K15-203	138.8		Aspectral	1	NULL	NULL	187.23
K15-203	141.8		Phengite	1	NULL	NULL	53.209

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-203	141.8		Phengite	1	NULL	NULL	71.765
K15-203	141.8		Phengite	1	NULL	NULL	65.801
K15-203	144.8		Muscovitic Illite	1	NULL	NULL	63.941
K15-203	144.8		Muscovitic Illite	1	NULL	NULL	55.613
K15-203	144.8		Muscovitic Illite	1	NULL	NULL	61.302
K15-203	147.8		Phengite	1	NULL	NULL	86.935
K15-203	147.8		Phengite	1	NULL	NULL	100.16
K15-203	147.8		Phengite	1	NULL	NULL	114.64
K15-203	150.8		Phlogopite	0.603	Phengite	0.397	341.03
K15-203	150.8		Phlogopite	0.57	Phengite	0.43	378.28
K15-203	150.8		Phlogopite	0.584	Phengite	0.416	452.9
K15-203	153.8		Muscovite	1	NULL	NULL	105
K15-203	153.8		Muscovite	1	NULL	NULL	116.14
K15-203	153.8		Muscovite	1	NULL	NULL	100.72
K15-203	156.8		Phengite	0.592	Actinolite	0.408	316.5
K15-203	156.8		Phengite	0.595	Actinolite	0.405	329.2
K15-203	156.8		Phengite	0.598	Actinolite	0.402	326.85
K15-203	159.8		Phengite	0.503	Chlorite-FeMg	0.497	313.44
K15-203	159.8		Chlorite-FeMg	0.506	Phengite	0.494	348.96
K15-203	159.8		Phengite	0.61	Phlogopite	0.39	319.94
K15-203	162.8		Chlorite-FeMg	0.801	Siderite	0.199	79.504
K15-203	162.8		Chlorite-FeMg	1	NULL	NULL	92.142
K15-203	162.8		Chlorite-FeMg	0.782	Siderite	0.218	90.942
K15-203	165.8		Phengite	1	NULL	NULL	160.06
K15-203	165.8		Phengite	1	NULL	NULL	152.95
K15-203	165.8		Phengite	1	NULL	NULL	170.6
K15-203	168.8		Muscovite	1	NULL	NULL	135.09
K15-203	168.8		Muscovite	1	NULL	NULL	133.81
K15-203	168.8		Muscovite	1	NULL	NULL	153.82

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-203	171.8		Phengite	1	NULL	NULL	138.52
K15-203	171.8		Phengite	1	NULL	NULL	143.65
K15-203	171.8		Phengite	1	NULL	NULL	153.43
K15-207	7		Phengite	1	NULL	NULL	97.363
K15-207	12		Muscovite	1	NULL	NULL	148.53
K15-207	17		Phengite	0.833	Alunite-NH	0.167	106.74
K15-207	22		Phengite	0.8	Kaolinite-PX	0.2	59.111
K15-207	27		Muscovite	0.78	Kaolinite-WX	0.22	124.88
K15-207	32		Phengite	1	NULL	NULL	96.771
K15-207	35		Phengite	1	NULL	NULL	77.53
K15-207	37.5		Phengite	1	NULL	NULL	106.61
K15-207	40		Phengite	0.825	Ankerite	0.175	167.25
K15-207	43		Muscovite	1	NULL	NULL	101.27
K15-207	46		Muscovite	1	NULL	NULL	150.3
K15-207	49		Muscovite	1	NULL	NULL	104.66
K15-207	50.8		Phengite	1	NULL	NULL	132.83
K15-207	52		Muscovite	1	NULL	NULL	54.392
K15-207	55		Phengite	1	NULL	NULL	61.994
K15-207	57.1		Muscovite	1	NULL	NULL	67.497
K15-207	66.2		Muscovite	1	NULL	NULL	196.11
K15-207	71.8		Phengite	1	NULL	NULL	50.067
K15-207	74		Phengite	1	NULL	NULL	48.574
K15-207	77.5		Phengite	1	NULL	NULL	54.817
K15-207	77.5		Ankerite	1	NULL	NULL	90.286
K15-207	77.7		Aspectral	1	NULL	NULL	581.66
K15-207	80.2		Ankerite	1	NULL	NULL	155.95
K15-207	85.6		Phengite	1	NULL	NULL	183.21
K15-207	90.6		Phengite	1	NULL	NULL	150.12
K15-207	95		Phengite	1	NULL	NULL	184.06

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-207	100		Phengite	1	NULL	NULL	108.88
K15-207	105		Muscovite	1	NULL	NULL	49.9
K15-207	110		Phengite	0.648	Siderite	0.352	20.271
K15-226	6		Phengite	1	NULL	NULL	165.98
K15-226	6		Phengite	1	NULL	NULL	170.58
K15-226	6		Phengite	1	NULL	NULL	157.56
K15-226	9		Phengite	1	NULL	NULL	96.545
K15-226	9		Phengite	1	NULL	NULL	88.907
K15-226	9		Phengite	1	NULL	NULL	100.8
K15-226	12		Phengite	0.648	Siderite	0.352	57.361
K15-226	12		Phengite	0.66	Siderite	0.34	23.626
K15-226	12		Phengite	0.558	Siderite	0.442	24.461
K15-226	15		Phengite	1	NULL	NULL	117.95
K15-226	15		Phengite	1	NULL	NULL	106.53
K15-226	15		Phengite	1	NULL	NULL	104.33
K15-226	18		Phengite	1	NULL	NULL	175.01
K15-226	18		Phengite	1	NULL	NULL	149.09
K15-226	18		Phengite	1	NULL	NULL	137.45
K15-226	24		Phengite	1	NULL	NULL	101.88
K15-226	24		Phengite	1	NULL	NULL	101.68
K15-226	24		Phengite	1	NULL	NULL	103.89
K15-226	27		Phengite	1	NULL	NULL	97.198
K15-226	27		Phengite	1	NULL	NULL	93.292
K15-226	27		Phengite	1	NULL	NULL	96.085
K15-226	30		Phengite	1	NULL	NULL	57.78
K15-226	30		Phengite	1	NULL	NULL	60.364
K15-226	30		Phengite	1	NULL	NULL	56.056
K15-226	33		Phengite	1	NULL	NULL	77.236
K15-226	33		Phengite	1	NULL	NULL	79.642

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-226	33		Phengite	0.801	Dolomite	0.199	183.2
K15-226	36		Phengite	0.619	Ankerite	0.381	142.52
K15-226	36		Phengite	0.755	Ankerite	0.245	165.61
K15-226	36		Phengite	1	NULL	NULL	52.351
K15-226	39		Phengite	1	NULL	NULL	59.121
K15-226	39		Phengite	1	NULL	NULL	60.211
K15-226	39		Phengite	1	NULL	NULL	122.21
K15-226	42		Phengite	1	NULL	NULL	133.86
K15-226	42		Phengite	1	NULL	NULL	127.88
K15-226	42		Muscovite	0.843	Dolomite	0.157	182.42
K15-226	45		Phengite	0.807	Ankerite	0.193	153.96
K15-226	45		Muscovite	0.844	Dolomite	0.156	195.65
K15-226	45		Phengite	0.814	Ankerite	0.186	153.64
K15-226	51.2		Phengite	1	NULL	NULL	70.918
K15-226	51.2		Phengite	1	NULL	NULL	82.5
K15-226	51.2		Phengite	1	NULL	NULL	87.185
K15-226	54		Phengite	1	NULL	NULL	81.176
K15-226	54		Phengite	1	NULL	NULL	61.505
K15-226	54		Phengite	1	NULL	NULL	70.496
K15-226	57		Aspectral	1	NULL	NULL	83.751
K15-226	57		Aspectral	1	NULL	NULL	49.833
K15-226	57		Aspectral	1	NULL	NULL	52.36
K15-226	60		Phengite	1	NULL	NULL	107.32
K15-226	60		Phengite	1	NULL	NULL	91.96
K15-226	60		Phengite	1	NULL	NULL	114.05
K15-226	63		Phengite	1	NULL	NULL	99.293
K15-226	63		Phengite	1	NULL	NULL	108.99
K15-226	63		Phengite	1	NULL	NULL	94.815
K15-226	68		Phengite	1	NULL	NULL	137.65

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-226	68		Phengite	1	NULL	NULL	145.26
K15-226	68		Phengite	1	NULL	NULL	116.5
K15-226	73		Phengite	1	NULL	NULL	108.26
K15-226	73		Phengite	1	NULL	NULL	103.69
K15-226	73		Phengite	1	NULL	NULL	88.651
K15-226	78		Phengite	1	NULL	NULL	72.645
K15-226	78		Phengite	1	NULL	NULL	59.315
K15-226	78		Phengite	1	NULL	NULL	54.897
K15-226	83		Phengite	1	NULL	NULL	109.76
K15-226	83		Phengite	1	NULL	NULL	96.771
K15-226	83		Phengite	1	NULL	NULL	99.531
K15-226	93		Phengite	1	NULL	NULL	73.251
K15-226	93		Phengite	1	NULL	NULL	49.761
K15-226	93		Phengite	1	NULL	NULL	44.115
K15-226	98		Phengite	1	NULL	NULL	51.412
K15-226	98		Phengite	1	NULL	NULL	62.052
K15-226	98		Phengite	1	NULL	NULL	48.608
K15-226	103		Phengite	1	NULL	NULL	112.37
K15-226	103		Phengite	1	NULL	NULL	102.44
K15-226	103		Phengite	1	NULL	NULL	119.55
K15-226	108		Phengite	1	NULL	NULL	80.544
K15-226	108		Phengite	1	NULL	NULL	104.81
K15-226	108		Phengite	1	NULL	NULL	118.89
K15-226	113		Phengite	1	NULL	NULL	100.91
K15-226	113		Phengite	1	NULL	NULL	121.84
K15-226	113		Phengite	1	NULL	NULL	124.24
K15-226	118		Phengite	1	NULL	NULL	93.262
K15-226	118		Phengite	1	NULL	NULL	89.856
K15-226	118		Muscovite	1	NULL	NULL	115.26

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-226	123		Muscovite	1	NULL	NULL	156.06
K15-226	123		Muscovite	1	NULL	NULL	172.21
K15-226	123		Muscovite	1	NULL	NULL	162.61
K15-226	129.3		Muscovite	1	NULL	NULL	129.65
K15-226	129.3		Muscovite	1	NULL	NULL	125.87
K15-226	129.3		Muscovite	1	NULL	NULL	149.86
K15-226	132		Muscovite	1	NULL	NULL	95.867
K15-226	132		Muscovite	1	NULL	NULL	134.14
K15-226	132		Muscovite	1	NULL	NULL	133.35
K15-226	135		Muscovite	1	NULL	NULL	236.39
K15-226	135		Muscovite	1	NULL	NULL	254.34
K15-226	135		Muscovite	1	NULL	NULL	271.84
K15-226	138		Muscovite	1	NULL	NULL	241.58
K15-226	138		Muscovite	1	NULL	NULL	239.22
K15-226	138		Muscovite	1	NULL	NULL	257.52
K15-226	141		Muscovite	1	NULL	NULL	156.32
K15-226	141		Muscovite	1	NULL	NULL	187.42
K15-226	141		Muscovite	1	NULL	NULL	213.78
K15-226	144		Aspectral	1	NULL	NULL	1000
K15-226	144		Aspectral	1	NULL	NULL	1000
K15-226	144		Aspectral	1	NULL	NULL	1000
K15-226	147		Aspectral	1	NULL	NULL	586.7
K15-226	147		Aspectral	1	NULL	NULL	563.85
K15-226	147		Aspectral	1	NULL	NULL	599.4
K15-226	150		Aspectral	1	NULL	NULL	84.916
K15-226	150		Aspectral	1	NULL	NULL	101.46
K15-226	150		Aspectral	1	NULL	NULL	98.247
K15-226	153		Phengite	0.712	Chlorite-FeMg	0.288	77.929
K15-226	153		PhengiticIllite	0.768	Kaolinite-PX	0.232	77.169

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-226	153		Phengite	0.574	Diaspore	0.226	80.85
K15-226	159.1		Aspectral	1	NULL	NULL	356.15
K15-226	159.1		Aspectral	1	NULL	NULL	464.32
K15-226	159.1		Aspectral	1	NULL	NULL	408.25
K15-226	162		Aspectral	1	NULL	NULL	185.27
K15-226	162		Aspectral	1	NULL	NULL	160.64
K15-226	162		Aspectral	1	NULL	NULL	166.14
K15-226	165		Aspectral	1	NULL	NULL	531.9
K15-226	165		Aspectral	1	NULL	NULL	525.01
K15-226	165		Aspectral	1	NULL	NULL	470.13
K15-226	175.6		Phengite	0.82	Dolomite	0.18	124.63
K15-226	175.6		Phengite	0.821	Dolomite	0.179	117.35
K15-226	175.6		Phengite	0.742	Ankerite	0.258	127.69
K15-226	179.6		Phengite	1	NULL	NULL	110.22
K15-226	179.6		Phengite	1	NULL	NULL	106.23
K15-226	179.6		Phengite	1	NULL	NULL	110.59
K15-226	182.6		Phengite	1	NULL	NULL	147.66
K15-226	182.6		Phengite	1	NULL	NULL	151.59
K15-226	182.6		Phengite	1	NULL	NULL	149.59
K15-226	185.6		Phengite	0.766	Gypsum	0.234	22.095
K15-226	185.6		Aspectral	1	NULL	NULL	45.372
K15-226	185.6		Phengite	0.837	Gypsum	0.163	32.188
K15-226	188.6		Phengite	1	NULL	NULL	36.285
K15-226	188.6		Phengite	1	NULL	NULL	40.698
K15-226	188.6		Phengite	1	NULL	NULL	42.899
K15-226	191.6		Chlorite-FeMg	0.702	Phengite	0.298	167.15
K15-226	191.6		Chlorite-FeMg	0.803	Phengite	0.197	178.77
K15-226	191.6		Phengite	0.439	Chlorite-FeMg	0.402	146.59
K15-226	194.6		Chlorite-FeMg	0.792	Phengite	0.208	178.16

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-226	194.6		Phengite	0.343	Epidote	0.335	157.95
K15-226	194.6		Chlorite-FeMg	0.799	Phengite	0.201	210.81
K15-226	197.6		Phlogopite	0.391	Phengite	0.337	141.04
K15-226	197.6		Phlogopite	0.384	Phengite	0.341	132.87
K15-226	197.6		Phengite	0.361	Phlogopite	0.356	141.45
K15-226	200.6		Chlorite-FeMg	0.598	Phengite	0.402	210.62
K15-226	200.6		Chlorite-FeMg	0.611	Phengite	0.389	204.82
K15-226	200.6		Chlorite-FeMg	0.614	Phengite	0.386	233.29
K15-226	203.8		Muscovite	1	NULL	NULL	146.83
K15-226	203.8		Muscovite	1	NULL	NULL	168.19
K15-226	203.8		Muscovite	1	NULL	NULL	168.81
K15-226	206.6		Muscovite	1	NULL	NULL	164.66
K15-226	206.6		Muscovite	1	NULL	NULL	178.71
K15-226	206.6		Muscovite	1	NULL	NULL	184.7
K15-226	209.6		Muscovite	1	NULL	NULL	118.46
K15-226	209.6		Muscovite	1	NULL	NULL	112.84
K15-226	209.6		Muscovite	1	NULL	NULL	117.27
K15-226	212.6		Muscovite	1	NULL	NULL	98.851
K15-226	212.6		Muscovite	1	NULL	NULL	96.922
K15-226	212.6		Muscovite	1	NULL	NULL	110.72
K15-226	215.6		Muscovitic Illite	1	NULL	NULL	100.05
K15-226	215.6		Muscovite	1	NULL	NULL	108.57
K15-226	215.6		Muscovite	1	NULL	NULL	99.317
K15-226	218.6		Muscovite	0.603	Chlorite-FeMg	0.397	102.93
K15-226	218.6		Muscovite	0.568	Chlorite-FeMg	0.432	93.958
K15-226	218.6		Muscovite	0.648	Chlorite-FeMg	0.352	98.587
K15-226	221.6		Muscovite	1	NULL	NULL	93.939
K15-226	221.6		Muscovite	0.721	Chlorite-FeMg	0.279	106.73
K15-226	221.6		Muscovite	0.625	Chlorite-FeMg	0.375	105.54

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-226	224.6		Siderite	0.79	Muscovite	0.21	69.041
K15-226	224.6		Siderite	0.767	Muscovite	0.233	70.773
K15-226	224.6		Siderite	0.79	Muscovite	0.21	93.186
K15-226	227.6		Muscovite	0.632	Chlorite-FeMg	0.368	115.7
K15-226	227.6		Muscovite	0.62	Chlorite-FeMg	0.38	132.65
K15-226	227.6		Muscovite	0.616	Chlorite-FeMg	0.384	137.81
K15-250	6.6		Phengite	1	NULL	NULL	116.73
K15-250	6.6		Phengite	1	NULL	NULL	114.07
K15-250	6.6		Phengite	1	NULL	NULL	116.21
K15-250	11.6		Phengite	1	NULL	NULL	68.159
K15-250	11.6		Phengite	1	NULL	NULL	91.664
K15-250	11.6		Phengite	1	NULL	NULL	77.643
K15-250	16.6		Phengite	1	NULL	NULL	101.5
K15-250	16.6		Phengite	1	NULL	NULL	97.867
K15-250	16.6		Phengite	1	NULL	NULL	106.65
K15-250	21.6		Phengite	1	NULL	NULL	74.007
K15-250	21.6		Phengite	1	NULL	NULL	78.802
K15-250	21.6		Phengite	1	NULL	NULL	68.027
K15-250	26.7		Phengite	0.805	Ankerite	0.195	80.101
K15-250	26.7		Phengite	0.777	Ankerite	0.223	109.68
K15-250	26.7		Phengite	0.795	Ankerite	0.205	119.86
K15-250	31.1		Phengite	1	NULL	NULL	90.897
K15-250	31.1		Phengite	1	NULL	NULL	89.658
K15-250	31.1		Phengite	1	NULL	NULL	91.818
K15-250	36.6		Phengite	1	NULL	NULL	139.39
K15-250	36.6		Phengite	1	NULL	NULL	154.12
K15-250	36.6		Phengite	1	NULL	NULL	148.46
K15-250	41.6		Phengite	1	NULL	NULL	104.9
K15-250	41.6		Phengite	1	NULL	NULL	113.72

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-250	41.6		Phengite	1	NULL	NULL	109.96
K15-250	46.6		Phengite	1	NULL	NULL	114.27
K15-250	46.6		Phengite	1	NULL	NULL	112.93
K15-250	46.6		Phengite	1	NULL	NULL	127.29
K15-250	56.6		Phengite	1	NULL	NULL	69.171
K15-250	56.6		Phengite	1	NULL	NULL	95.226
K15-250	56.6		Phengite	1	NULL	NULL	84.943
K15-250	61.6		Phengite	0.788	Siderite	0.212	91.676
K15-250	61.6		Phengite	1	NULL	NULL	112.01
K15-250	61.6		Phengite	1	NULL	NULL	120.14
K15-250	66.6		Phengite	0.738	Dolomite	0.262	158.46
K15-250	66.6		Phengite	0.782	Dolomite	0.218	153.67
K15-250	66.6		Phengite	0.786	Dolomite	0.214	182.86
K15-250	71.6		Phengite	0.578	Chlorite-Fe	0.422	109.44
K15-250	71.6		Phengite	0.554	Chlorite-Fe	0.446	158.75
K15-250	71.6		Phengite	0.551	Chlorite-Fe	0.449	172.23
K15-250	76.7		Muscovite	0.747	Ankerite	0.253	132.57
K15-250	76.7		Muscovite	0.78	Ankerite	0.22	148.35
K15-250	76.7		Muscovite	0.747	Ankerite	0.253	152.38
K15-250	81.6		Chlorite-FeMg	0.604	Muscovite	0.396	119.53
K15-250	81.6		Chlorite-Fe	0.422	Muscovite	0.386	86.661
K15-250	81.6		Chlorite-FeMg	0.569	Muscovite	0.431	111.05
K15-250	86.6		Muscovite	1	NULL	NULL	115.68
K15-250	86.6		Muscovite	1	NULL	NULL	91.72
K15-250	86.6		Muscovite	1	NULL	NULL	113.81
K15-250	91.6		Phengite	1	NULL	NULL	91.037
K15-250	91.6		Muscovite	1	NULL	NULL	90.411
K15-250	91.6		Muscovite	1	NULL	NULL	106.67
K15-250	96.6		Phengite	1	NULL	NULL	72.953

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-250	96.6		Phengite	1	NULL	NULL	66.532
K15-250	96.6		Phengite	1	NULL	NULL	68.868
K15-250	119.5		Phengite	0.828	Siderite	0.172	79.787
K15-250	119.5		Phengite	1	NULL	NULL	86.499
K15-250	119.5		Phengite	1	NULL	NULL	93.041
K15-250	124.5		Phengite	1	NULL	NULL	73.574
K15-250	124.5		Phengite	1	NULL	NULL	86.298
K15-250	124.5		Phengite	1	NULL	NULL	62.424
K15-250	129.5		Phengite	1	NULL	NULL	110.42
K15-250	129.5		Phengite	1	NULL	NULL	100.06
K15-250	129.5		Phengite	1	NULL	NULL	100.86
K15-250	134.5		Phengite	1	NULL	NULL	117.9
K15-250	134.5		Phengite	1	NULL	NULL	119.34
K15-250	134.5		Phengite	1	NULL	NULL	121.97
K15-250	139.5		Phengite	1	NULL	NULL	119.49
K15-250	139.5		Phengite	1	NULL	NULL	138.13
K15-250	139.5		Phengite	1	NULL	NULL	137.75
K15-250	144.5		Phengite	1	NULL	NULL	110.11
K15-250	144.5		Phengite	1	NULL	NULL	132.33
K15-250	144.5		Phengite	1	NULL	NULL	118.33
K15-250	149.5		Phengite	1	NULL	NULL	92.047
K15-250	149.5		Phengite	1	NULL	NULL	83.981
K15-250	149.5		Phengite	1	NULL	NULL	95.989
K15-250	154.5		Phengite	0.84	Dickite	0.16	106.22
K15-250	154.5		Muscovite	1	NULL	NULL	148.87
K15-250	154.5		Phengite	0.846	Dickite	0.154	103.35
K15-250	157.6		Muscovite	0.837	Dickite	0.163	56.104
K15-250	157.6		Muscovite	0.838	Dickite	0.162	79.888
K15-250	157.6		Muscovite	0.849	Dickite	0.151	53.521

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-250	160.5		Phengite	1	NULL	NULL	125.43
K15-250	160.5		Phengite	1	NULL	NULL	177.45
K15-250	160.5		Phengite	1	NULL	NULL	171.49
K15-250	163.5		Muscovite	0.847	Dickite	0.153	98.236
K15-250	163.5		Muscovite	0.84	Dickite	0.16	99.316
K15-250	163.5		Muscovite	1	NULL	NULL	129.44
K15-250	169.5		Phengite	1	NULL	NULL	100.76
K15-250	169.5		Phengite	1	NULL	NULL	98.385
K15-250	169.5		Phengite	1	NULL	NULL	92.623
K15-250	171.5		Muscovite	1	NULL	NULL	135.93
K15-250	171.5		Muscovite	1	NULL	NULL	134
K15-250	171.5		Muscovite	1	NULL	NULL	138.25
K15-250	179.5		Muscovite	0.775	Dickite	0.225	80.178
K15-250	179.5		Muscovite	0.836	Dickite	0.164	89.594
K15-250	179.5		Muscovite	0.823	Dickite	0.177	92.58
K15-250	182.5		Chlorite-FeMg	0.844	Diaspore	0.156	163.74
K15-250	182.5		Chlorite-FeMg	1	NULL	NULL	201.45
K15-250	182.5		Chlorite-FeMg	1	NULL	NULL	250.56
K15-250	185.5		Aspectral	1	NULL	NULL	440.5
K15-250	185.5		Aspectral	1	NULL	NULL	501.97
K15-250	185.5		Aspectral	1	NULL	NULL	454.09
K15-250	188.5		Chlorite-Fe	0.756	Phengite	0.244	191.12
K15-250	188.5		Chlorite-FeMg	0.683	Phengite	0.317	173.86
K15-250	188.5		Chlorite-Fe	0.709	Phengite	0.291	162.62
K15-250	191.5		Muscovite	0.776	Chlorite-FeMg	0.224	182.91
K15-250	191.5		Muscovite	0.572	Chlorite-Fe	0.428	175.31
K15-250	191.5		Muscovite	0.615	Chlorite-Fe	0.385	198.13
K15-250	194.5		Chlorite-Fe	0.69	Ankerite	0.31	86.599
K15-250	194.5		Chlorite-Fe	0.781	Dolomite	0.219	137.35

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-250	194.5		Chlorite-Fe	0.686	Ankerite	0.314	85.647
K15-250	197.5		Phengite	1	NULL	NULL	108.21
K15-250	197.5		Phengite	1	NULL	NULL	108.44
K15-250	197.5		Phengite	1	NULL	NULL	113.11
K15-250	200.5		Muscovite	1	NULL	NULL	72.641
K15-250	200.5		Muscovite	1	NULL	NULL	94.394
K15-250	200.5		Muscovite	1	NULL	NULL	75.66
K15-250	203.5		Phengite	0.611	Chlorite-FeMg	0.389	68.015
K15-250	203.5		Phengite	0.634	Chlorite-FeMg	0.366	61.586
K15-250	203.5		Phengite	0.58	Chlorite-FeMg	0.42	66.335
K15-250	208.5		Chlorite-FeMg	1	NULL	NULL	151.65
K15-250	208.5		Chlorite-FeMg	1	NULL	NULL	188.01
K15-250	208.5		Chlorite-FeMg	1	NULL	NULL	156.88
K15-250	213.5		Phengite	0.747	Chlorite-FeMg	0.253	76.835
K15-250	213.5		Phengite	0.518	Chlorite-FeMg	0.482	85.119
K15-250	213.5		Phengite	0.67	Chlorite-FeMg	0.33	56.039
K15-250	218.5		Phengite	1	NULL	NULL	58.151
K15-250	218.5		Phengite	1	NULL	NULL	55.207
K15-250	218.5		Phengite	1	NULL	NULL	53.912
K15-250	223.5		Phengite	0.844	Kaolinite-PX	0.156	41.065
K15-250	223.5		Phengite	0.842	Kaolinite-WX	0.158	39.947
K15-250	223.5		Phengite	0.845	Kaolinite-PX	0.155	41.84
K15-250	228.5		Muscovite	1	NULL	NULL	113.63
K15-250	228.5		Muscovite	1	NULL	NULL	123.79
K15-250	228.5		Muscovite	1	NULL	NULL	118.32
K15-250	233.5		Phengite	0.815	Ankerite	0.185	127.21
K15-250	233.5		Phengite	0.663	Chlorite-Mg	0.337	107.27
K15-250	233.5		Phengite	0.777	Ankerite	0.223	132.61
K15-250	238.5		Muscovite	1	NULL	NULL	71.185

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-250	238.5		Muscovite	1	NULL	NULL	83.174
K15-250	238.5		Muscovite	1	NULL	NULL	74.303
K15-250	243.5		Muscovite	1	NULL	NULL	120.39
K15-250	243.5		Muscovite	1	NULL	NULL	129.88
K15-250	243.5		Muscovite	1	NULL	NULL	115.61
K15-250	248.5		Muscovite	1	NULL	NULL	58.987
K15-250	248.5		Muscovite	1	NULL	NULL	67.131
K15-250	248.5		Muscovite	1	NULL	NULL	67.707
K15-265	24.7		Phengite	1	NULL	NULL	92.977
K15-265	24.7		Phengite	1	NULL	NULL	85.776
K15-265	24.7		Phengite	1	NULL	NULL	94.774
K15-265	29.7		Phengite	1	NULL	NULL	59.704
K15-265	29.7		Phengite	1	NULL	NULL	57.107
K15-265	29.7		Phengite	1	NULL	NULL	58.163
K15-265	34.7		Phengite	1	NULL	NULL	80.443
K15-265	34.7		Phengite	1	NULL	NULL	74.567
K15-265	34.7		Phengite	1	NULL	NULL	73.303
K15-265	39.7		Phengite	1	NULL	NULL	92.758
K15-265	39.7		Phengite	1	NULL	NULL	82.199
K15-265	39.7		Phengite	1	NULL	NULL	86.293
K15-265	44.7		Phengite	1	NULL	NULL	125.93
K15-265	44.7		Phengite	1	NULL	NULL	162.78
K15-265	44.7		Muscovite	1	NULL	NULL	143.87
K15-265	49.7		Muscovite	1	NULL	NULL	122.38
K15-265	49.7		Muscovite	1	NULL	NULL	135.55
K15-265	49.7		Muscovite	1	NULL	NULL	121.95
K15-265	54.7		Phengite	1	NULL	NULL	91.467
K15-265	54.7		Muscovite	1	NULL	NULL	85.134
K15-265	54.7		Muscovite	1	NULL	NULL	88.592

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-265	59.8		Phengite	1	NULL	NULL	131.65
K15-265	59.8		Phengite	1	NULL	NULL	135.24
K15-265	59.8		Phengite	1	NULL	NULL	144.51
K15-265	64.7		Phengite	1	NULL	NULL	94.783
K15-265	64.7		Phengite	1	NULL	NULL	90.851
K15-265	64.7		Phengite	1	NULL	NULL	94.628
K15-265	69.7		Chlorite-FeMg	1	NULL	NULL	94.621
K15-265	69.7		Chlorite-Fe	0.834	Ankerite	0.166	64.98
K15-265	69.7		Chlorite-Fe	0.807	Ankerite	0.193	67.961
K15-265	74.7		Muscovite	1	NULL	NULL	86.02
K15-265	74.7		Muscovite	1	NULL	NULL	76.454
K15-265	74.7		Muscovite	1	NULL	NULL	64.79
K15-265	79.7		Muscovite	0.739	Chlorite-Fe	0.261	124.78
K15-265	79.7		Phengite	0.76	Siderite	0.24	133.42
K15-265	79.7		Muscovite	0.685	Chlorite-Fe	0.315	131.57
K15-265	84.7		Phengite	1	NULL	NULL	61.022
K15-265	84.7		Phengite	1	NULL	NULL	62.775
K15-265	84.7		Phengite	1	NULL	NULL	63.564
K15-265	89.8		Chlorite-Fe	0.773	Phengite	0.227	95.37
K15-265	89.8		Chlorite-FeMg	0.698	Phengite	0.302	73.342
K15-265	89.8		Chlorite-Fe	0.622	Phengite	0.227	59.217
K15-265	94.8		Phengite	1	NULL	NULL	56.191
K15-265	94.8		Phengite	1	NULL	NULL	60.475
K15-265	94.8		Phengite	1	NULL	NULL	59.534
K15-265	99.7		Phengite	1	NULL	NULL	73.794
K15-265	99.7		Phengite	1	NULL	NULL	74.005
K15-265	99.7		Phengite	1	NULL	NULL	70.355
K15-265	104.7		Phengite	1	NULL	NULL	86.241
K15-265	104.7		Phengite	1	NULL	NULL	83.634

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-265	104.7		Phengite	1	NULL	NULL	81.078
K15-265	109.7		Phengite	1	NULL	NULL	193.63
K15-265	109.7		Phengite	1	NULL	NULL	196.48
K15-265	109.7		Phengite	1	NULL	NULL	193.42
K15-265	114.6		Phengite	1	NULL	NULL	138.91
K15-265	114.6		Phengite	1	NULL	NULL	139.64
K15-265	114.6		Phengite	1	NULL	NULL	141.24
K15-265	119.7		Phengite	1	NULL	NULL	112.25
K15-265	119.7		Phengite	1	NULL	NULL	124.23
K15-265	119.7		Phengite	1	NULL	NULL	109.73
K15-265	124.7		Muscovite	0.749	Dolomite	0.251	129.58
K15-265	124.7		Muscovite	0.748	Dolomite	0.252	140.1
K15-265	124.7		Muscovite	0.766	Dolomite	0.234	121.47
K15-265	129.7		Muscovite	1	NULL	NULL	56.561
K15-265	129.7		Muscovite	1	NULL	NULL	56.327
K15-265	129.7		Muscovite	1	NULL	NULL	64.398
K15-265	134.7		Muscovite	1	NULL	NULL	67.161
K15-265	134.7		Muscovite	1	NULL	NULL	60.193
K15-265	134.7		Muscovite	1	NULL	NULL	65.6
K15-265	137.7		Muscovite	1	NULL	NULL	144.61
K15-265	137.7		Muscovite	1	NULL	NULL	115.13
K15-265	137.7		Muscovite	1	NULL	NULL	109.48
K15-265	140.7		Muscovite	1	NULL	NULL	79.597
K15-265	140.7		Muscovite	1	NULL	NULL	84.3
K15-265	140.7		Muscovite	1	NULL	NULL	76.562
K15-265	143.7		Muscovite	0.598	Kaolinite-WX	0.402	54.587
K15-265	143.7		Muscovite	0.658	Kaolinite-WX	0.342	51.908
K15-265	143.7		Muscovite	0.6	Kaolinite-WX	0.4	52.08
K15-265	146.7		Muscovite	1	NULL	NULL	86.476

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-265	146.7		Muscovite	1	NULL	NULL	78.325
K15-265	146.7		Muscovite	1	NULL	NULL	78.55
K15-265	149.7		Muscovite	1	NULL	NULL	55.618
K15-265	149.7		Muscovite	1	NULL	NULL	57.216
K15-265	149.7		Muscovite	1	NULL	NULL	55.438
K15-265	152.7		Muscovite	1	NULL	NULL	70.604
K15-265	152.7		Muscovite	1	NULL	NULL	62.043
K15-265	152.7		Muscovite	1	NULL	NULL	72.772
K15-265	155.7		Muscovite	1	NULL	NULL	96.569
K15-265	155.7		Muscovite	1	NULL	NULL	82.235
K15-265	155.7		Muscovite	0.838	Kaolinite-WX	0.162	65.39
K15-265	158.7		Muscovite	1	NULL	NULL	90.444
K15-265	158.7		Muscovite	1	NULL	NULL	74.28
K15-265	158.7		Muscovite	1	NULL	NULL	76.472
K15-265	161.7		Muscovite	1	NULL	NULL	94.937
K15-265	161.7		Muscovite	1	NULL	NULL	94.169
K15-265	161.7		Muscovite	1	NULL	NULL	85.193
K15-265	164.7		Muscovite	1	NULL	NULL	120.76
K15-265	164.7		Muscovite	1	NULL	NULL	118.28
K15-265	164.7		Muscovite	1	NULL	NULL	118.88
K15-265	167.7		Muscovite	1	NULL	NULL	72.224
K15-265	167.7		Muscovite	1	NULL	NULL	64.521
K15-265	167.7		Muscovite	1	NULL	NULL	65.936
K15-265	170		Muscovite	1	NULL	NULL	98.068
K15-265	170		Muscovite	1	NULL	NULL	107.05
K15-265	170		Muscovite	1	NULL	NULL	109.9
K15-265	173.7		Kaolinite-WX	0.719	Siderite	0.281	79.468
K15-265	173.7		Kaolinite-WX	1	NULL	NULL	133.45
K15-265	173.7		Kaolinite-WX	1	NULL	NULL	114.68

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-265	176.7		Muscovite	1	NULL	NULL	259.43
K15-265	176.7		Muscovite	1	NULL	NULL	262.74
K15-265	176.7		Muscovite	1	NULL	NULL	269.04
K15-265	179.7		Dolomite	0.628	Chlorite-Mg	0.215	15.5
K15-265	179.7		Dolomite	0.497	Chlorite-Mg	0.309	15.581
K15-265	179.7		Dolomite	0.56	Chlorite-FeMg	0.259	21.987
K15-265	183		Muscovite	1	NULL	NULL	95.809
K15-265	183		Muscovite	0.809	Ankerite	0.191	56.146
K15-265	183		Muscovite	0.826	Ankerite	0.174	54.386
K15-265	185.7		Aspectral	1	NULL	NULL	82.878
K15-265	185.7		Aspectral	1	NULL	NULL	119.94
K15-265	185.7		Aspectral	1	NULL	NULL	106.94
K15-265	188.7		Phengite	0.507	Siderite	0.493	116.33
K15-265	188.7		Muscovite	0.55	Siderite	0.45	124.89
K15-265	188.7		Aspectral	1	NULL	NULL	418.89
K15-265	191.6		Aspectral	1	NULL	NULL	1000
K15-265	191.6		Aspectral	1	NULL	NULL	1000
K15-265	191.6		Aspectral	1	NULL	NULL	1000
K15-265	194.7		Aspectral	1	NULL	NULL	685.02
K15-265	194.7		Aspectral	1	NULL	NULL	781.66
K15-265	194.7		Aspectral	1	NULL	NULL	646.61
K15-265	197.7		Aspectral	1	NULL	NULL	165.93
K15-265	197.7		Aspectral	1	NULL	NULL	123.99
K15-265	197.7		Aspectral	1	NULL	NULL	105.23
K15-265	210.7		Muscovite	1	NULL	NULL	83.249
K15-265	210.7		Muscovite	1	NULL	NULL	71.296
K15-265	210.7		Muscovite	1	NULL	NULL	78.654
K15-265	213.7		Chlorite-FeMg	0.823	Ankerite	0.177	92.596
K15-265	213.7		Chlorite-FeMg	1	NULL	NULL	101.62

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-265	213.7		Chlorite-FeMg	0.746	Siderite	0.254	89.596
K15-265	216.7		Chlorite-FeMg	1	NULL	NULL	79.037
K15-265	216.7		Chlorite-FeMg	1	NULL	NULL	103.2
K15-265	216.7		Chlorite-FeMg	1	NULL	NULL	111.27
K15-265	219.7		Chlorite-FeMg	0.59	Actinolite	0.226	75.227
K15-265	219.7		Chlorite-FeMg	0.579	Actinolite	0.238	80.973
K15-265	219.7		Chlorite-FeMg	0.557	Actinolite	0.236	88.353
K15-265	224.7		Chlorite-FeMg	0.785	Epidote	0.215	91.097
K15-265	224.7		Chlorite-FeMg	0.799	Epidote	0.201	89.8
K15-265	224.7		Chlorite-FeMg	0.786	Epidote	0.214	91.663
K15-265	229.7		Chlorite-FeMg	0.51	Actinolite	0.255	98.623
K15-265	229.7		Chlorite-FeMg	0.531	Actinolite	0.245	105.36
K15-265	229.7		Chlorite-FeMg	0.54	Actinolite	0.241	107.87
K15-265	234.7		Chlorite-FeMg	0.831	Hornblende	0.169	121.56
K15-265	234.7		Chlorite-FeMg	0.811	Actinolite	0.189	106.59
K15-265	234.7		Chlorite-FeMg	0.748	Hornblende	0.252	107.74
K15-265	239.3		Chlorite-FeMg	0.723	Phengite	0.277	106.82
K15-265	239.3		Chlorite-FeMg	0.747	Phengite	0.253	119.48
K15-265	239.3		Chlorite-FeMg	0.736	Phengite	0.264	118.35
K15-265	244.7		Chlorite-FeMg	0.517	Hornblende	0.316	106.24
K15-265	244.7		Chlorite-FeMg	0.578	Actinolite	0.239	96.545
K15-265	244.7		Chlorite-FeMg	0.609	Actinolite	0.23	95.96
K15-265	249.7		Chlorite-FeMg	0.81	Hornblende	0.19	125.76
K15-265	249.7		Chlorite-FeMg	0.823	Hornblende	0.177	107.65
K15-265	249.7		Chlorite-FeMg	0.809	Hornblende	0.191	127.25
K15-265	254.7		Chlorite-FeMg	0.539	Actinolite	0.262	83.573
K15-265	254.7		Chlorite-FeMg	0.576	Actinolite	0.249	85.379
K15-265	254.7		Chlorite-FeMg	0.685	Actinolite	0.161	90.212
K15-265	259.7		Chlorite-FeMg	1	NULL	NULL	142.25

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-265	259.7		Chlorite-FeMg	0.667	Actinolite	0.169	76.488
K15-265	259.7		Chlorite-FeMg	0.664	Epidote	0.171	79.507
K15-265	264.7		Chlorite-FeMg	0.573	Actinolite	0.248	78.874
K15-265	264.7		Chlorite-FeMg	0.578	Actinolite	0.223	61.503
K15-265	264.7		Chlorite-FeMg	0.567	Actinolite	0.232	64.058
K15-265	269.7		Phengite	1	NULL	NULL	44.639
K15-265	269.7		Phengite	1	NULL	NULL	38.818
K15-265	269.7		Phengite	1	NULL	NULL	59.165
K15-265	274.7		Phengite	1	NULL	NULL	180.03
K15-265	274.7		Phengite	1	NULL	NULL	185.55
K15-265	274.7		Phengite	1	NULL	NULL	200.14
K15-265	279.7		Muscovite	1	NULL	NULL	43.338
K15-265	279.7		Muscovite	1	NULL	NULL	43.734
K15-265	279.7		Muscovite	1	NULL	NULL	42.467
K15-265	284.7		Phengite	0.714	Chlorite-FeMg	0.286	119.57
K15-265	284.7		Muscovite	0.692	Chlorite-FeMg	0.308	119.67
K15-265	284.7		Phengite	0.789	Chlorite-Mg	0.211	120.2
K15-272	8.8		Muscovite	1	NULL	NULL	81.345
K15-272	8.8		Aspectral	1	NULL	NULL	173.69
K15-272	8.8		Aspectral	1	NULL	NULL	118.56
K15-272	13.8		Muscovite	1	NULL	NULL	55.464
K15-272	13.8		Muscovite	1	NULL	NULL	60.588
K15-272	13.8		Muscovite	1	NULL	NULL	64.039
K15-272	18.8		Muscovite	1	NULL	NULL	66.335
K15-272	18.8		Muscovite	1	NULL	NULL	84.719
K15-272	18.8		Muscovite	1	NULL	NULL	58.702
K15-272	23.8		Phengite	1	NULL	NULL	16.885
K15-272	23.8		Muscovite	1	NULL	NULL	25.386
K15-272	23.8		Phengite	1	NULL	NULL	24.652

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-272	26.8		Phengite	1	NULL	NULL	35.958
K15-272	26.8		NULL	NULL	NULL	NULL	NULL
K15-272	26.8		NULL	NULL	NULL	NULL	NULL
K15-272	29.8		Phengite	1	NULL	NULL	167.13
K15-272	29.8		Phengite	1	NULL	NULL	138.21
K15-272	29.8		Phengite	1	NULL	NULL	173.96
K15-272	33		Phengite	1	NULL	NULL	86.079
K15-272	33		Muscovite	1	NULL	NULL	97.576
K15-272	33		Phengite	1	NULL	NULL	99.65
K15-272	35.8		Phengite	1	NULL	NULL	80.695
K15-272	35.8		Phengite	1	NULL	NULL	98.417
K15-272	35.8		Phengite	1	NULL	NULL	94.816
K15-272	38.8		Phengite	1	NULL	NULL	107.6
K15-272	38.8		Phengite	1	NULL	NULL	113.62
K15-272	38.8		Phengite	1	NULL	NULL	120.6
K15-272	41.8		Phengite	1	NULL	NULL	63.02
K15-272	41.8		Phengite	1	NULL	NULL	60.498
K15-272	41.8		Phengite	1	NULL	NULL	60.829
K15-272	44.8		Phengite	1	NULL	NULL	85.793
K15-272	44.8		Phengite	0.817	Ankerite	0.183	74.908
K15-272	44.8		Phengite	1	NULL	NULL	92.593
K15-272	47.8		Phengite	0.833	Chlorite-Mg	0.167	139.75
K15-272	47.8		Phengite	0.84	Chlorite-Mg	0.16	151.01
K15-272	47.8		Phengite	0.794	Chlorite-Mg	0.206	136.06
K15-272	50.8		Phengite	0.805	Chlorite-FeMg	0.195	62.743
K15-272	50.8		Phengite	0.804	Chlorite-FeMg	0.196	74.604
K15-272	50.8		Phengite	1	NULL	NULL	120.15
K15-272	53.8		Aspectral	1	NULL	NULL	126.99
K15-272	53.8		Aspectral	1	NULL	NULL	116.96

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-272	53.8		Aspectral	1	NULL	NULL	183.52
K15-272	57		Phengite	1	NULL	NULL	107.82
K15-272	57		Phengite	1	NULL	NULL	112.9
K15-272	57		Phengite	1	NULL	NULL	122.83
K15-272	60		Phengite	1	NULL	NULL	67.979
K15-272	60		Phengite	1	NULL	NULL	70.835
K15-272	60		Phengite	1	NULL	NULL	83.266
K15-272	62.8		Aspectral	1	NULL	NULL	113.59
K15-272	62.8		Aspectral	1	NULL	NULL	165.43
K15-272	62.8		Aspectral	1	NULL	NULL	225.21
K15-272	67.8		Aspectral	1	NULL	NULL	236.19
K15-272	67.8		Aspectral	1	NULL	NULL	162.71
K15-272	67.8		Aspectral	1	NULL	NULL	310.18
K15-272	72.8		Aspectral	1	NULL	NULL	331.71
K15-272	72.8		Aspectral	1	NULL	NULL	289.27
K15-272	72.8		Aspectral	1	NULL	NULL	582.39
K15-272	77.8		Phengite	1	NULL	NULL	41.592
K15-272	77.8		Phengite	1	NULL	NULL	52.365
K15-272	77.8		Phengite	1	NULL	NULL	66.172
K15-272	80.8		Phengite	0.697	Zoisite	0.303	76.382
K15-272	80.8		Phengite	0.769	Dolomite	0.231	49.74
K15-272	80.8		Phengite	0.784	Calcite	0.216	71.573
K15-272	83.8		Phengite	1	NULL	NULL	62.608
K15-272	83.8		Phengite	1	NULL	NULL	66.987
K15-272	83.8		Phengite	1	NULL	NULL	66.241
K15-272	86.8		Phengite	1	NULL	NULL	38.819
K15-272	86.8		Phengite	1	NULL	NULL	43.508
K15-272	86.8		Phengite	1	NULL	NULL	50.042
K15-272	89.8		Aspectral	1	NULL	NULL	188.25

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-272	89.8		Aspectral	1	NULL	NULL	132.25
K15-272	89.8		Aspectral	1	NULL	NULL	199.04
K15-272	95.8		Aspectral	1	NULL	NULL	781.56
K15-272	95.8		Aspectral	1	NULL	NULL	703.1
K15-272	95.8		Aspectral	1	NULL	NULL	588.38
K15-272	99		Phengite	1	NULL	NULL	38.93
K15-272	99		Phengite	1	NULL	NULL	47.845
K15-272	99		Phengite	1	NULL	NULL	41.398
K15-272	101.8		Phengite	1	NULL	NULL	102.03
K15-272	101.8		Phengite	1	NULL	NULL	105.22
K15-272	101.8		Phengite	1	NULL	NULL	106.38
K15-272	106.8		Phengite	1	NULL	NULL	99.806
K15-272	106.8		Phengite	1	NULL	NULL	97.766
K15-272	106.8		Phengite	1	NULL	NULL	97.03
K15-272	111.8		Calcite	0.587	Phengite	0.413	49.662
K15-272	111.8		Calcite	0.587	Phengite	0.413	33.879
K15-272	111.8		Calcite	0.574	Phengite	0.426	44.705
K15-272	119.8		Phengite	1	NULL	NULL	40.135
K15-272	119.8		Phengite	1	NULL	NULL	39.188
K15-272	119.8		Phengite	1	NULL	NULL	51.817
K15-272	124.8		Muscovite	1	NULL	NULL	21.901
K15-272	124.8		Muscovite	1	NULL	NULL	28.785
K15-272	124.8		Muscovite	1	NULL	NULL	35.611
K15-301	23		Muscovite	1	NULL	NULL	133.8
K15-301	28		Muscovite	1	NULL	NULL	128.66
K15-301	33		Muscovite	1	NULL	NULL	147.53
K15-301	38		Muscovite	1	NULL	NULL	115.75
K15-301	43		Muscovite	1	NULL	NULL	207.06
K15-301	48		Muscovite	1	NULL	NULL	152.07

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-301	53		Muscovite	1	NULL	NULL	148.88
K15-301	58		Muscovite	1	NULL	NULL	188.47
K15-301	61		Muscovite	1	NULL	NULL	104.27
K15-301	64		Phengite	1	NULL	NULL	90.582
K15-301	66.7		Phengite	0.798	Ankerite	0.202	53.443
K15-301	70		Muscovite	0.632	Dolomite	0.368	17.883
K15-301	73		Phengite	1	NULL	NULL	36.392
K15-301	76		Muscovite	1	NULL	NULL	37.341
K15-301	79		Muscovite	1	NULL	NULL	81.1
K15-301	85		Aspectral	1	NULL	NULL	103.35
K15-301	88		Aspectral	1	NULL	NULL	82.625
K15-301	91		Phengite	1	NULL	NULL	145.06
K15-301	94		Muscovite	1	NULL	NULL	57.069
K15-301	97		Muscovite	1	NULL	NULL	125.2
K15-301	100		Phengite	0.77	Ankerite	0.23	85.562
K15-301	103		Phengite	0.793	Dolomite	0.207	94.534
K15-301	106		Chlorite-Fe	0.535	Tourmaline-Fe	0.239	86.535
K15-301	109		Phengite	1	NULL	NULL	121.26
K15-301	112		Phengite	1	NULL	NULL	84.27
K15-301	115		Phengite	0.82	Calcite	0.18	119.39
K15-301	118		Phengite	1	NULL	NULL	96.496
K15-301	123		Ankerite	0.555	Montmorillonite	0.445	25.466
K15-301	128		Aspectral	1	NULL	NULL	92.566
K15-301	133		Phengite	1	NULL	NULL	160.24
K15-301	138		Phengite	1	NULL	NULL	58.144
K15-307	7.5		Phengite	1	NULL	NULL	88.61
K15-307	7.5		Phengite	1	NULL	NULL	82.322
K15-307	7.5		Phengite	1	NULL	NULL	114.43
K15-307	12.5		Phengite	1	NULL	NULL	123.15

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-307	12.5		Phengite	1	NULL	NULL	132.45
K15-307	12.5		Phengite	1	NULL	NULL	129.44
K15-307	17.7		Phengite	1	NULL	NULL	125.23
K15-307	17.7		Phengite	1	NULL	NULL	126.45
K15-307	17.7		Phengite	1	NULL	NULL	127.23
K15-307	22.5		Phengite	1	NULL	NULL	129.54
K15-307	22.5		Phengite	1	NULL	NULL	121.21
K15-307	22.5		Phengite	1	NULL	NULL	125.02
K15-307	27.5		PhengiticIllite	1	NULL	NULL	135.21
K15-307	27.5		PhengiticIllite	1	NULL	NULL	130.17
K15-307	27.5		PhengiticIllite	1	NULL	NULL	126.86
K15-307	32.5		Phengite	0.731	Chlorite-FeMg	0.269	204.03
K15-307	32.5		Phengite	1	NULL	NULL	174.32
K15-307	32.5		Phengite	1	NULL	NULL	226.26
K15-307	37.5		Phengite	1	NULL	NULL	234.2
K15-307	37.5		Phengite	1	NULL	NULL	180.43
K15-307	37.5		Phengite	1	NULL	NULL	205.03
K15-307	42.5		Phengite	1	NULL	NULL	135.67
K15-307	42.5		Phengite	1	NULL	NULL	98.279
K15-307	42.5		Phengite	1	NULL	NULL	100.09
K15-307	47.5		Phengite	1	NULL	NULL	509.66
K15-307	47.5		Phengite	1	NULL	NULL	315.77
K15-307	47.5		Phengite	1	NULL	NULL	376.49
K15-307	52.5		Phengite	1	NULL	NULL	66.03
K15-307	52.5		Phengite	1	NULL	NULL	84.347
K15-307	52.5		Phengite	1	NULL	NULL	82.776
K15-307	57.5		Phengite	1	NULL	NULL	197.57
K15-307	57.5		Phengite	1	NULL	NULL	224.77
K15-307	57.5		Phengite	1	NULL	NULL	235.69

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-307	62		Phengite	1	NULL	NULL	93.119
K15-307	62		Phengite	1	NULL	NULL	88.945
K15-307	62		Phengite	1	NULL	NULL	101.79
K15-307	67.5		Phengite	1	NULL	NULL	329.27
K15-307	67.5		Phengite	1	NULL	NULL	283.37
K15-307	67.5		Phengite	1	NULL	NULL	395.27
K15-307	72.5		Muscovite	0.707	Kaolinite-WX	0.293	39.96
K15-307	72.5		Muscovite	0.643	Kaolinite-WX	0.357	40.384
K15-307	72.5		Muscovite	0.687	Kaolinite-WX	0.313	46.948
K15-307	77.5		Phengite	1	NULL	NULL	133.25
K15-307	77.5		Phengite	1	NULL	NULL	121.39
K15-307	77.5		Phengite	1	NULL	NULL	115.01
K15-307	82.5		Phengite	1	NULL	NULL	97.993
K15-307	82.5		Phengite	1	NULL	NULL	131.24
K15-307	82.5		Phengite	1	NULL	NULL	120.63
K15-307	87.5		Phengite	1	NULL	NULL	175.62
K15-307	87.5		Phengite	1	NULL	NULL	140.1
K15-307	87.5		Phengite	1	NULL	NULL	155.9
K15-307	92.5		Muscovite	1	NULL	NULL	226.52
K15-307	92.5		Muscovite	1	NULL	NULL	225.42
K15-307	92.5		Muscovite	1	NULL	NULL	223.63
K15-307	97.5		Muscovite	1	NULL	NULL	152.02
K15-307	97.5		Muscovite	1	NULL	NULL	156.92
K15-307	97.5		Muscovite	1	NULL	NULL	157.43
K15-307	102.5		Muscovite	1	NULL	NULL	143.86
K15-307	102.5		Muscovite	1	NULL	NULL	142.18
K15-307	102.5		Muscovite	1	NULL	NULL	141.31
K15-307	107.5		Muscovite	1	NULL	NULL	118.13
K15-307	107.5		Muscovite	1	NULL	NULL	100.04

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-307	107.5		Muscovite	1	NULL	NULL	114.99
K15-307	112.5		Muscovite	1	NULL	NULL	99.644
K15-307	112.5		Muscovite	1	NULL	NULL	109.5
K15-307	112.5		Muscovite	1	NULL	NULL	99.479
K15-307	117.5		Muscovite	0.785	Tourmaline	0.215	74.213
K15-307	117.5		Phengite	0.663	Tourmaline-Fe	0.337	67.841
K15-307	117.5		Tourmaline	1	NULL	NULL	83.458
K15-307	122.5		Muscovite	1	NULL	NULL	67.19
K15-307	122.5		Muscovite	1	NULL	NULL	69.74
K15-307	122.5		Muscovite	1	NULL	NULL	71.839
K15-307	125.5		Muscovite	1	NULL	NULL	63.045
K15-307	125.5		Muscovite	1	NULL	NULL	55.844
K15-307	125.5		Muscovite	1	NULL	NULL	64.476
K15-307	128.5		Phengite	1	NULL	NULL	67.537
K15-307	128.5		Phengite	1	NULL	NULL	62.048
K15-307	128.5		Phengite	1	NULL	NULL	61.625
K15-307	131.5		Phengite	1	NULL	NULL	103.48
K15-307	131.5		Phengite	1	NULL	NULL	102.12
K15-307	131.5		Phengite	1	NULL	NULL	101.62
K15-307	134.5		Phengite	1	NULL	NULL	73.607
K15-307	134.5		Phengite	1	NULL	NULL	67.268
K15-307	134.5		Phengite	1	NULL	NULL	70.043
K15-307	137.5		Aspectral	1	NULL	NULL	60.932
K15-307	137.5		Aspectral	1	NULL	NULL	70.962
K15-307	137.5		Aspectral	1	NULL	NULL	68.706
K15-307	140.5		Phengite	1	NULL	NULL	123.46
K15-307	140.5		Phengite	1	NULL	NULL	117.51
K15-307	140.5		Phengite	1	NULL	NULL	125.54
K15-307	143.5		Calcite	0.688	Phengite	0.312	34.901

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-307	143.5		Calcite	0.658	Phengite	0.342	39.51
K15-307	143.5		Calcite	1	NULL	NULL	37.753
K15-307	146.5		Chlorite-FeMg	0.682	Phengite	0.318	156.86
K15-307	146.5		Chlorite-FeMg	0.677	Phengite	0.323	170.98
K15-307	146.5		Chlorite-FeMg	0.679	Phengite	0.321	150.98
K15-307	149.5		Chlorite-FeMg	1	NULL	NULL	142.41
K15-307	149.5		Chlorite-FeMg	1	NULL	NULL	122
K15-307	149.5		Chlorite-FeMg	0.844	Hornblende	0.156	93.855
K15-307	152.6		Chlorite-FeMg	1	NULL	NULL	207.54
K15-307	152.6		Chlorite-FeMg	1	NULL	NULL	211.37
K15-307	152.6		Chlorite-FeMg	1	NULL	NULL	203.32
K15-307	155.5		Actinolite	0.449	Chlorite-FeMg	0.315	99.152
K15-307	155.5		Chlorite-FeMg	0.435	Actinolite	0.398	85.685
K15-307	155.5		Chlorite-FeMg	0.463	Actinolite	0.373	83.95
K15-307	158.5		Epidote	0.541	Hornblende	0.459	151.54
K15-307	158.5		Chlorite-FeMg	0.646	Epidote	0.354	134.53
K15-307	158.5		Chlorite-FeMg	0.464	Epidote	0.33	101
K15-307	161.5		Chlorite-FeMg	0.417	Hornblende	0.407	137.05
K15-307	161.5		Hornblende	0.427	Chlorite-FeMg	0.385	94.37
K15-307	161.5		Chlorite-FeMg	0.447	Actinolite	0.388	116.65
K15-307	164.5		Chlorite-FeMg	0.827	Hornblende	0.173	145.62
K15-307	164.5		Chlorite-FeMg	0.812	Ankerite	0.188	141.91
K15-307	164.5		Chlorite-FeMg	1	NULL	NULL	159.94
K15-307	167.5		Chlorite-FeMg	0.506	Hornblende	0.267	63.094
K15-307	167.5		Chlorite-FeMg	0.496	Hornblende	0.274	69.348
K15-307	167.5		Chlorite-FeMg	0.591	Epidote	0.229	75.368
K15-307	170.5		Chlorite-FeMg	0.789	Epidote	0.211	91.492
K15-307	170.5		Chlorite-FeMg	0.661	Epidote	0.183	67.839
K15-307	170.5		Chlorite-FeMg	0.739	Epidote	0.261	90.043

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-307	173.5		Chlorite-FeMg	0.667	Actinolite	0.171	80.359
K15-307	173.5		Chlorite-FeMg	0.684	Epidote	0.166	69.827
K15-307	173.5		Chlorite-FeMg	0.832	Ankerite	0.168	114.43
K15-307	176.5		Chlorite-FeMg	0.742	Siderite	0.258	85.006
K15-307	176.5		Chlorite-FeMg	0.715	Siderite	0.285	82.083
K15-307	176.5		Chlorite-FeMg	0.766	Siderite	0.234	81.432
K15-307	179.5		Chlorite-FeMg	1	NULL	NULL	94.215
K15-307	179.5		Chlorite-FeMg	1	NULL	NULL	90.948
K15-307	179.5		Chlorite-FeMg	1	NULL	NULL	83.827
K15-307	182.5		Aspectral	1	NULL	NULL	112.54
K15-307	182.5		Aspectral	1	NULL	NULL	126.49
K15-307	182.5		Aspectral	1	NULL	NULL	119.93
K15-307	185.5		Aspectral	1	NULL	NULL	162.18
K15-307	185.5		Aspectral	1	NULL	NULL	126.01
K15-307	185.5		Aspectral	1	NULL	NULL	137.67
K15-307	188.5		Aspectral	1	NULL	NULL	179.02
K15-307	188.5		Aspectral	1	NULL	NULL	169.24
K15-307	188.5		Aspectral	1	NULL	NULL	184.22
K15-307	191.5		Aspectral	1	NULL	NULL	90.657
K15-307	191.5		Aspectral	1	NULL	NULL	99.499
K15-307	191.5		Aspectral	1	NULL	NULL	60.458
K15-307	194.5		Aspectral	1	NULL	NULL	357.73
K15-307	194.5		Aspectral	1	NULL	NULL	221.47
K15-307	194.5		Aspectral	1	NULL	NULL	321.15
K15-307	197.5		Aspectral	1	NULL	NULL	949.57
K15-307	197.5		Aspectral	1	NULL	NULL	831.61
K15-307	197.5		Aspectral	1	NULL	NULL	831.86
K15-307	200.5		Aspectral	1	NULL	NULL	160.73
K15-307	200.5		Ankerite	1	NULL	NULL	107.29

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-307	200.5		Aspectral	1	NULL	NULL	287.02
K15-307	203.6		Phengite	1	NULL	NULL	119.31
K15-307	203.6		Phengite	1	NULL	NULL	98.666
K15-307	203.6		Phengite	1	NULL	NULL	123.97
K15-307	206.5		Muscovite	1	NULL	NULL	65.251
K15-307	206.5		Muscovite	1	NULL	NULL	54.799
K15-307	206.5		Muscovite	1	NULL	NULL	62.24
K15-307	209.6		Chlorite-FeMg	0.587	Muscovite	0.413	64.013
K15-307	209.6		Muscovite	0.557	Chlorite-FeMg	0.443	65.308
K15-307	209.6		Muscovite	0.559	Chlorite-FeMg	0.441	59.814
K15-307	212.5		Aspectral	1	NULL	NULL	237.68
K15-307	212.5		Aspectral	1	NULL	NULL	244.28
K15-307	212.5		Aspectral	1	NULL	NULL	123.25
K15-307	215.8		Muscovite	1	NULL	NULL	153.56
K15-307	215.8		Muscovite	1	NULL	NULL	155.58
K15-307	215.8		Muscovite	1	NULL	NULL	142.99
K15-307	218.5		Muscovite	1	NULL	NULL	145.49
K15-307	218.5		Muscovite	1	NULL	NULL	134.03
K15-307	218.5		Muscovite	1	NULL	NULL	131.8
K15-307	221.5		Muscovite	1	NULL	NULL	112.21
K15-307	221.5		Muscovite	1	NULL	NULL	118.37
K15-307	221.5		Muscovite	1	NULL	NULL	122.97
K15-307	224.5		Muscovite	1	NULL	NULL	104.93
K15-307	224.5		Muscovite	1	NULL	NULL	85.069
K15-307	224.5		Muscovite	1	NULL	NULL	79.035
K15-307	227.5		Muscovite	1	NULL	NULL	99.567
K15-307	227.5		Muscovite	1	NULL	NULL	82.761
K15-307	227.5		Muscovite	1	NULL	NULL	101.18
K15-307	230.5		Muscovite	1	NULL	NULL	80.24

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-307	230.5		Muscovite	1	NULL	NULL	73.96
K15-307	230.5		Muscovite	1	NULL	NULL	62.741
K15-307	235.5		Muscovite	1	NULL	NULL	116.78
K15-307	235.5		Muscovite	1	NULL	NULL	81.921
K15-307	235.5		Muscovite	1	NULL	NULL	82.147
K15-307	240.5		Muscovite	1	NULL	NULL	84.576
K15-307	240.5		Muscovite	1	NULL	NULL	78.57
K15-307	240.5		Muscovite	1	NULL	NULL	81.752
K15-307	245.5		Muscovite	1	NULL	NULL	53.889
K15-307	245.5		Muscovite	1	NULL	NULL	45.178
K15-307	245.5		Muscovite	1	NULL	NULL	50.757
K15-307	250.5		Muscovite	1	NULL	NULL	83.703
K15-307	250.5		Muscovite	0.776	Chlorite-FeMg	0.224	49.56
K15-307	250.5		Muscovite	1	NULL	NULL	86.234
K15-307	255.5		Muscovite	1	NULL	NULL	81.435
K15-307	255.5		Muscovitic Illite	1	NULL	NULL	78.563
K15-307	255.5		Muscovite	1	NULL	NULL	75.639
K15-307	260.5		Muscovite	1	NULL	NULL	96.253
K15-307	260.5		Muscovite	1	NULL	NULL	89.096
K15-307	260.5		Muscovite	1	NULL	NULL	84.946
K15-307	265.5		Muscovite	1	NULL	NULL	105.01
K15-307	265.5		Muscovite	1	NULL	NULL	100.46
K15-307	265.5		Muscovite	1	NULL	NULL	100.52
K15-307	270.5		Muscovite	1	NULL	NULL	124.18
K15-307	270.5		Muscovite	1	NULL	NULL	116.07
K15-307	270.5		Muscovite	1	NULL	NULL	100.5
K15-307	275.5		Muscovite	1	NULL	NULL	129.88
K15-307	275.5		Muscovite	1	NULL	NULL	123.7
K15-307	275.5		Muscovite	1	NULL	NULL	134.25

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-327	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	918.73
K15-327	7		Phengite	1	NULL	NULL	41.353
K15-327	10		Phengite	1	NULL	NULL	35.736
K15-327	10.3		Phengite	0.695	Epidote	0.305	130.7
K15-327	13.1		Actinolite	0.382	Phengite	0.343	136.6
K15-327	16.1		Chlorite-FeMg	0.806	Epidote	0.194	94.075
K15-327	21.1		Chlorite-FeMg	0.682	Actinolite	0.161	84.754
K15-327	26.1		Chlorite-FeMg	0.522	Actinolite	0.302	109.09
K15-327	31.3		Chlorite-FeMg	0.571	Actinolite	0.226	88.799
K15-327	36.1		Chlorite-FeMg	1	NULL	NULL	110.94
K15-327	38.1		Chlorite-FeMg	0.55	Phengite	0.261	174.86
K15-327	41.1		Phengite	1	NULL	NULL	55.935
K15-327	44.1		Phengite	1	NULL	NULL	89.422
K15-327	47.1		Phengite	1	NULL	NULL	72.574
K15-327	49.1		Muscovite	1	NULL	NULL	177.53
K15-327	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	860.96
K15-327	49.9		Phengite	0.592	Phlogopite	0.408	260.49
K15-327	51.1		Phengite	1	NULL	NULL	31.042
K15-327	54.1		Chlorite-FeMg	0.711	Phengite	0.289	119.74
K15-327	57.1		Chlorite-FeMg	1	NULL	NULL	108.25
K15-327	60.1		Chlorite-FeMg	1	NULL	NULL	85.972
K15-327	63.1		Phengite	0.52	Chlorite-FeMg	0.48	169.18
K15-327	65.4		Chlorite-FeMg	1	NULL	NULL	110.64
K15-327	66		Muscovite	0.54	Chlorite-FeMg	0.46	142.51
K15-327	69.1		Muscovite	1	NULL	NULL	123.99
K15-327	72.1		Chlorite-FeMg	0.57	Muscovite	0.43	29.41
K15-327	75.1		Muscovite	0.674	Chlorite-FeMg	0.326	29.384
K15-327	78.3		Chlorite-FeMg	0.615	Muscovite	0.385	99.738
K15-327	81.2		Chlorite-FeMg	1	NULL	NULL	92.452

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-327	84		Chlorite-FeMg	1	NULL	NULL	35.706
K15-327	87		Muscovite	0.659	Chlorite-FeMg	0.341	204.59
K15-327	90.2		Muscovite	0.403	Chlorite-FeMg	0.402	105.51
K15-327	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	999.85
K15-327	93.1		Phengite	1	NULL	NULL	119.84
K15-327	96.1		Phengite	0.644	Chlorite-Mg	0.356	134.74
K15-327	99.1		Phengite	0.695	Chlorite-Mg	0.305	120.94
K15-327	102.1		Phengite	1	NULL	NULL	93.495
K15-327	105.1		Phengite	1	NULL	NULL	79.749
K15-327	108.1		Chlorite-FeMg	0.526	Phengite	0.474	265.56
K15-327	111.1		Chlorite-FeMg	1	NULL	NULL	95.672
K15-327	114.3		Phengite	0.761	Chlorite-Mg	0.239	171.5
K15-327	117.2		Phengite	0.619	Chlorite-Mg	0.381	191.03
K15-327	120.1		Chlorite-FeMg	1	NULL	NULL	167.19
K15-327	123.2		Chlorite-FeMg	0.806	Phengite	0.194	97.797
K15-327	126.1		Chlorite-FeMg	0.782	Phengite	0.218	94.876
K15-327	128.9		Phengite	0.656	Chlorite-FeMg	0.344	169.36
K15-327	132.1		Phengite	0.505	Chlorite-FeMg	0.495	178.58
K15-327	135.1		Chlorite-FeMg	0.649	Phengite	0.351	60.568
K15-327	138.1		Phengite	1	NULL	NULL	178.55
K15-327	141.1		Phengite	1	NULL	NULL	139.13
K15-327	144		Phengite	1	NULL	NULL	81.002
K15-327	145.6		Phengite	1	NULL	NULL	103.92
K15-327	146.9		Phengite	1	NULL	NULL	193.53
K15-327	147.2		Phengite	1	NULL	NULL	100.52
K15-327	147.4		Phengite	0.682	Chlorite-FeMg	0.318	311.48
K15-327	148.7		Phengite	1	NULL	NULL	90.117
K15-327	149.6		Phengite	0.612	Chlorite-FeMg	0.388	100.02
K15-327	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	993.61

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-327	152.6		Phengite	0.732	Chlorite-FeMg	0.268	120.72
K15-327	153.8		Phengite	1	NULL	NULL	180.05
K15-327	155.6		Phengite	1	NULL	NULL	155.36
K15-327	157.6		Phengite	0.66	Chlorite-FeMg	0.34	188.21
K15-327	160.6		Phengite	0.598	Biotite	0.402	174.13
K15-327	163.7		Phengite	0.662	Chlorite-FeMg	0.338	95.293
K15-327	165.8		Phengite	1	NULL	NULL	102.37
K15-327	168.7		Muscovite	0.553	Chlorite-Fe	0.447	101.28
K15-327	171.2		Chlorite-Fe	0.585	Muscovite	0.415	124.42
K15-327	174.3		Muscovite	1	NULL	NULL	65.75
K15-327	174.4		Muscovite	0.535	Chlorite-Fe	0.465	91.805
K15-327	176.5		Chlorite-Fe	1	NULL	NULL	182.63
K15-327	178.8		Chlorite-Fe	0.549	Muscovite	0.451	106.79
K15-327	181.5		Muscovite	1	NULL	NULL	52.574
K15-327	184.1		Muscovite	1	NULL	NULL	79.867
K15-327	187.4		Phengite	1	NULL	NULL	48.676
K15-327	190.4		Phengite	1	NULL	NULL	36.982
K15-327	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	993.05
K15-327	191.9		Phengite	1	NULL	NULL	52.738
K15-327	193.7		Phengite	1	NULL	NULL	39.966
K15-327	196.5		Phengite	1	NULL	NULL	97.79
K15-327	199.5		Biotite	0.506	Muscovite	0.494	92.976
K15-327	202.4		Muscovite	0.703	Chlorite-FeMg	0.297	118.27
K15-327	205.4		Muscovite	1	NULL	NULL	113.8
K15-327	208.3		Muscovite	0.614	Chlorite-FeMg	0.386	73.766
K15-327	211.4		Chlorite-FeMg	0.658	Muscovite	0.342	68.825
K15-327	214.5		Muscovite	1	NULL	NULL	132.23
K15-327	217.5		Muscovite	1	NULL	NULL	88.355
K15-327	220.3		Muscovite	1	NULL	NULL	127.11

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-328	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	984.42
K15-328	7.5		Phengite	1	NULL	NULL	119.29
K15-328	10.4		Phengite	1	NULL	NULL	106.59
K15-328	13.5		Phengite	0.508	Chlorite-Fe	0.492	35.155
K15-328	16.5		Phengite	1	NULL	NULL	110.9
K15-328	19.9		Chlorite-FeMg	0.678	Phengite	0.322	233.31
K15-328	20.5		Chlorite-FeMg	0.466	PhengiticIllite	0.28	212.07
K15-328	22.3		Chlorite-FeMg	0.556	Actinolite	0.289	89.782
K15-328	25.5		Chlorite-FeMg	0.565	Actinolite	0.263	112.69
K15-328	28.5		Chlorite-FeMg	1	NULL	NULL	175.35
K15-328	31.5		Chlorite-FeMg	0.556	Phengite	0.228	149.32
K15-328	34.4		Chlorite-FeMg	0.818	Epidote	0.182	144.48
K15-328	37.5		Phengite	1	NULL	NULL	189.2
K15-328	40.5		Phengite	1	NULL	NULL	71.899
K15-328	43.5		Phengite	1	NULL	NULL	117.59
K15-328	46.5		Phengite	1	NULL	NULL	115.75
K15-328	51.5		Phengite	1	NULL	NULL	58.473
K15-328	56.5		Muscovite	1	NULL	NULL	107.93
K15-328	57.2		Phengite	0.6	Phlogopite	0.4	339.22
K15-328	58.5		Phengite	1	NULL	NULL	184.23
K15-328	61.7		Chlorite-FeMg	1	NULL	NULL	155.17
K15-328	64.9		Chlorite-FeMg	0.831	Ankerite	0.169	87.588
K15-328	67.6		Chlorite-FeMg	0.576	Phengite	0.424	143.11
K15-328	70.7		Muscovite	0.772	Chlorite-FeMg	0.228	78.434
K15-328	73.5		Muscovite	1	NULL	NULL	93.202
K15-328	76.5		Phengite	1	NULL	NULL	136.22
K15-328	79.5		Muscovite	1	NULL	NULL	113.44
K15-328	82.1		Chlorite-FeMg	0.586	Kaolinite-WX	0.414	189.51
K15-328	85.5		Phengite	1	NULL	NULL	101.42

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-328	88.5		Muscovite	1	NULL	NULL	83.825
K15-328	91.7		Phengite	0.735	Chlorite-FeMg	0.265	115.68
K15-328	94.6		Phengite	1	NULL	NULL	82.527
K15-328	97.7		Muscovite	1	NULL	NULL	116.86
K15-328	100.6		Phengite	1	NULL	NULL	129.96
K15-328	103.5		Phengite	1	NULL	NULL	120.56
K15-328	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K15-328	106.6		Phengite	1	NULL	NULL	177.17
K15-328	109.6		Phengite	1	NULL	NULL	176.23
K15-328	112.5		Phengite	1	NULL	NULL	163.85
K15-328	115.6		Phengite	0.684	Biotite	0.316	162.35
K15-328	118.6		Phengite	1	NULL	NULL	165.37
K15-328	121		Phengite	0.652	Chlorite-Fe	0.348	194.26
K15-328	124.7		Chlorite-FeMg	0.761	Phengite	0.239	172.91
K15-328	127.7		Chlorite-FeMg	1	NULL	NULL	183.76
K15-328	130.6		Phengite	0.583	Chlorite-FeMg	0.417	205.75
K15-328	133.7		Chlorite-FeMg	0.557	Phengite	0.443	294.39
K15-328	136.6		Phengite	0.709	Biotite	0.291	291.04
K15-328	139.7		Phengite	1	NULL	NULL	346.47
K15-328	142.7		Chlorite-FeMg	0.508	Phengite	0.492	223.09
K15-328	145.6		Chlorite-FeMg	0.624	Phengite	0.376	271.9
K15-328	147.3		Phengite	0.649	Chlorite-Fe	0.351	179.86
K15-328	148.4		Phengite	1	NULL	NULL	127.69
K15-328	150.7		Phengite	1	NULL	NULL	143.27
K15-328	153.7		Phengite	1	NULL	NULL	366.38
K15-328	156.6		Phengite	1	NULL	NULL	168.22
K15-328	159.3		Phengite	1	NULL	NULL	150.52
K15-328	159.7		Phengite	1	NULL	NULL	215.21
K15-328	162.2		Phengite	1	NULL	NULL	180.48

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-328	162.7		Phengite	0.539	Biotite	0.461	381.34
K15-328	164.7		Phengite	1	NULL	NULL	238.55
K15-328	166.9		Phengite	1	NULL	NULL	195.79
K15-328	167.7		Phengite	1	NULL	NULL	128.71
K15-328	168.3		Biotite	0.57	Chlorite-Mg	0.43	393.33
K15-328	170.8		Phengite	1	NULL	NULL	343.57
K15-328	172.6		Phengite	1	NULL	NULL	131.63
K15-328	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K15-328	174.3		Phengite	1	NULL	NULL	155.97
K15-328	176.4		Phengite	0.727	Chlorite-FeMg	0.273	164.14
K15-328	178.9		Phengite	0.612	Chlorite-FeMg	0.388	226.05
K15-328	181.5		Phengite	1	NULL	NULL	180.55
K15-328	182.3		Phengite	1	NULL	NULL	130.98
K15-328	184.1		Muscovite	1	NULL	NULL	113.33
K15-328	187.3		Chlorite-Fe	0.521	Muscovite	0.479	131.03
K15-328	189.9		Chlorite-Fe	0.563	Muscovite	0.437	102.6
K15-328	191.2		Chlorite-Fe	0.76	Muscovite	0.24	147.88
K15-328	195.4		Chlorite-Fe	0.565	Muscovite	0.435	190.62
K15-328	198.3		Muscovite	1	NULL	NULL	76.459
K15-328	201.3		Muscovite	1	NULL	NULL	76.926
K15-328	204.4		Phengite	1	NULL	NULL	39.422
K15-328	207.5		Muscovite	1	NULL	NULL	46.578
K15-328	209.9		Phengite	1	NULL	NULL	115.54
K15-328	210.4		Phengite	1	NULL	NULL	155.33
K15-328	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	916.88
K15-328	212.7		Muscovite	1	NULL	NULL	138.58
K15-328	213.1		Muscovite	1	NULL	NULL	87.317
K15-328	216.4		Muscovite	1	NULL	NULL	57.323
K15-328	218.2		Muscovite	1	NULL	NULL	49.493

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K15-328	219.2		Muscovite	1	NULL	NULL	96.244
K15-328	221.1		Muscovite	1	NULL	NULL	81.998
K15-328	224.1		Muscovite	1	NULL	NULL	97.231
K15-328	227.1		Muscovite	1	NULL	NULL	75.152
K15-328	229.8		Chlorite-FeMg	0.526	MuscoviticIllite	0.474	69.382
K15-328	230.4		Muscovitic Illite	0.685	Chlorite-FeMg	0.315	70.793
K15-328	233.4		Muscovite	1	NULL	NULL	103.87
K15-328	235.5		Muscovite	1	NULL	NULL	111.74
K16-349	27.1		Muscovite	1	NULL	NULL	165.17
K16-349	32.1		Muscovite	1	NULL	NULL	83.791
K16-349	37.1		Phengite	1	NULL	NULL	92.369
K16-349	42.3		Phengite	1	NULL	NULL	162.16
K16-349	45.1		Phengite	1	NULL	NULL	142.18
K16-349	48.1		Muscovite	1	NULL	NULL	267.38
K16-349	51.1		Muscovite	1	NULL	NULL	127.32
K16-349	54.1		Muscovite	1	NULL	NULL	86.639
K16-349	57.2		Muscovite	1	NULL	NULL	128.59
K16-349	60.2		Muscovite	1	NULL	NULL	279.29
K16-349	63.1		Phengite	1	NULL	NULL	125.88
K16-349	66.1		Muscovite	0.772	Siderite	0.228	43.167
K16-349	69.1		Phengite	1	NULL	NULL	59.152
K16-349	71.9		Phengite	1	NULL	NULL	73.96
K16-349	75.3		Aspectral	1	NULL	NULL	129.87
K16-349	78.1		Aspectral	1	NULL	NULL	102.19
K16-349	81.1		Aspectral	1	NULL	NULL	47.541
K16-349	84.1		PhengiticIllite	0.482	Dickite	0.3	78.369
K16-349	87.2		Chlorite-FeMg	1	NULL	NULL	105.79
K16-349	90.1		Chlorite-FeMg	1	NULL	NULL	89.367
K16-349	93.1		Phengite	1	NULL	NULL	148.01

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-349	96.1		Chlorite-FeMg	0.741	Phengite	0.259	140.75
K16-349	99.1		Chlorite-FeMg	0.486	Hornblende	0.341	82.913
K16-349	102.1		Chlorite-FeMg	1	NULL	NULL	93.866
K16-349	109.4		PhengiticIllite	1	NULL	NULL	74.778
K16-349	116.9		Aspectral	1	NULL	NULL	67.413
K16-349	119.1		Muscovite	1	NULL	NULL	149.79
K16-349	122.3		Phengite	1	NULL	NULL	112.83
K16-349	125.1		Phengite	1	NULL	NULL	54.992
K16-349	130.1		Phengite	1	NULL	NULL	75.089
K16-349	135.1		Muscovite	1	NULL	NULL	124.35
K16-349	139.9		Muscovite	1	NULL	NULL	84.014
K16-349	145.1		Muscovite	0.84	Gypsum	0.16	87.805
K16-349	150.1		Muscovite	0.688	Gypsum	0.312	73.937
K16-349	155.1		Muscovite	1	NULL	NULL	71.318
K16-349	160.1		Phengite	1	NULL	NULL	71.716
K16-349	165.1		Chlorite-FeMg	0.839	Epidote	0.161	125.31
K16-349	170.1		Phengite	1	NULL	NULL	41.668
K16-349	173.1		Phengite	1	NULL	NULL	99.418
K16-349	176.1		Muscovite	1	NULL	NULL	105.24
K16-349	179.1		Chlorite-FeMg	1	NULL	NULL	154.53
K16-349	182.1		Muscovite	1	NULL	NULL	171.13
K16-349	185.1		Muscovite	1	NULL	NULL	91.982
K16-349	188.1		Muscovite	1	NULL	NULL	76.965
K16-349	191.1		Muscovite	1	NULL	NULL	122.76
K16-349	194.1		Muscovite	1	NULL	NULL	44.655
K16-349	197.1		Muscovite	1	NULL	NULL	70.953
K16-349	200.1		Muscovite	1	NULL	NULL	88.217
K16-372	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	937.78
K16-372	21.92		Phengite	1	NULL	NULL	116.16

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-372	24.93		Chlorite-FeMg	1	NULL	NULL	91.901
K16-372	27.09		Chlorite-FeMg	0.685	Hornblende	0.315	104.57
K16-372	30.82		Chlorite-FeMg	1	NULL	NULL	141.31
K16-372	33.96		Chlorite-FeMg	0.738	Hornblende	0.262	97.414
K16-372	36.95		Chlorite-FeMg	1	NULL	NULL	91.248
K16-372	39.58		Phengite	1	NULL	NULL	104.18
K16-372	44.42		Muscovite	1	NULL	NULL	259.62
K16-372	49.44		Muscovite	1	NULL	NULL	128.18
K16-372	52.82		Phengite	1	NULL	NULL	71.899
K16-372	55.82		Phengite	1	NULL	NULL	116.18
K16-372	58.45		Phengite	1	NULL	NULL	98.186
K16-372	61.36		Phengite	1	NULL	NULL	110.53
K16-372	64.23		Phengite	1	NULL	NULL	126.28
K16-372	67.31		Phengite	1	NULL	NULL	117.04
K16-372	70.19		Muscovite	1	NULL	NULL	51.447
K16-372	70.96		Muscovite	1	NULL	NULL	76.113
K16-372	73.21		Phengite	1	NULL	NULL	94.172
K16-372	75.57		Phengite	1	NULL	NULL	135.12
K16-372	77.07		Muscovite	1	NULL	NULL	110.56
K16-372	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-372	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	966.46
K16-372	78.46		Muscovite	1	NULL	NULL	113.29
K16-372	80.13		Phengite	1	NULL	NULL	87.127
K16-372	82.1		Phengite	1	NULL	NULL	64.118
K16-372	85.18		Phengite	1	NULL	NULL	79.447
K16-372	88.36		Phengite	1	NULL	NULL	88.152
K16-372	91.63		Phengite	1	NULL	NULL	97.489
K16-372	94.81		Muscovite	1	NULL	NULL	130.09
K16-372	97.61		Phengite	1	NULL	NULL	135.74

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-372	100.55		Phengite	1	NULL	NULL	132.46
K16-372	103.31		Phengite	1	NULL	NULL	143.38
K16-372	106.32		Phengite	1	NULL	NULL	110.01
K16-372	109.31		Phengite	1	NULL	NULL	130.68
K16-372	112.31		Phengite	1	NULL	NULL	120.31
K16-372	115.62		Phengite	1	NULL	NULL	121.69
K16-372	118.73		Phengite	1	NULL	NULL	109.05
K16-372	121.84		Phengite	1	NULL	NULL	163.33
K16-372	124.38		Phengite	1	NULL	NULL	107.51
K16-372	125.64		Phengite	1	NULL	NULL	104.11
K16-372	126.15		Phengite	1	NULL	NULL	147.56
K16-372	128.24		Phengite	1	NULL	NULL	166.22
K16-372	131.15		Phengite	1	NULL	NULL	125.02
K16-372	133.07		Phengite	1	NULL	NULL	100.4
K16-372	136.21		Phengite	1	NULL	NULL	133.03
K16-372	139.16		Phengite	1	NULL	NULL	80.419
K16-372	142.31		Phengite	1	NULL	NULL	91.873
K16-372	145.19		Phengite	1	NULL	NULL	129.49
K16-372	0	WHITE REFERENCE	Vegetation-Dry	0.635	Alunite-NH	0.365	570.66
K16-372	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	940.93
K16-372	148.67		Phengite	0.712	Chlorite-FeMg	0.288	173.62
K16-372	151.24		Phengite	1	NULL	NULL	135.22
K16-372	154.59		Phengite	0.648	Siderite	0.352	59.292
K16-372	157.19		Phengite	1	NULL	NULL	102.03
K16-372	160.47		Phengite	1	NULL	NULL	115.93
K16-372	163.08		Phengite	1	NULL	NULL	70.281
K16-372	166.22		Chlorite-FeMg	0.812	Phengite	0.188	116.23
K16-372	169.86		Phengite	0.821	Siderite	0.179	66.881
K16-372	172.31		Phengite	1	NULL	NULL	61.428

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-372	175.53		Chlorite-Fe	0.5	Calcite	0.288	88.367
K16-372	178.23		Phengite	1	NULL	NULL	72.559
K16-372	181.22		Phengite	1	NULL	NULL	79.896
K16-372	184.61		Phengite	0.839	Siderite	0.161	64.054
K16-372	187.19		Chlorite-FeMg	0.822	Phengite	0.178	123.76
K16-372	190.07		Phengite	1	NULL	NULL	77.204
K16-372	193.81		Phengite	1	NULL	NULL	80.41
K16-372	196.19		Phengite	1	NULL	NULL	76.266
K16-372	199.41		Chlorite-FeMg	0.67	Phengite	0.33	61.525
K16-372	202.47		Phengite	1	NULL	NULL	120.89
K16-372	205.45		Phengite	1	NULL	NULL	71.728
K16-372	0	WHITE REFERENCE	Vegetation-Dry	0.697	Alunite-NH	0.303	521.74
K16-372	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-372	207.45		Phengite	1	NULL	NULL	87.556
K16-372	210.66		Phengite	0.775	Ankerite	0.225	71.918
K16-372	214.09		Chlorite-FeMg	0.789	Phengite	0.211	68.755
K16-372	217.09		Chlorite-Fe	0.52	Phengite	0.311	107.17
K16-372	220.67		Muscovite	1	NULL	NULL	155.66
K16-372	223.79		Muscovite	1	NULL	NULL	165.33
K16-372	225.75		Muscovite	1	NULL	NULL	164.38
K16-372	228.61		Phengite	1	NULL	NULL	170.42
K16-372	229.64		Phengite	1	NULL	NULL	107.08
K16-372	232.26		Phengite	1	NULL	NULL	84.424
K16-372	235.6		Phengite	0.657	Chlorite-FeMg	0.172	86.487
K16-372	238.23		Phengite	0.777	Ankerite	0.223	63.154
K16-372	240.41		Phengite	1	NULL	NULL	79.593
K16-372	242.91		Phengite	1	NULL	NULL	212.29
K16-372	246.16		Phengite	1	NULL	NULL	153.16
K16-372	249.04		Phengite	1	NULL	NULL	99.381

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-372	251.91		Phengite	1	NULL	NULL	100.14
K16-372	255.26		Phengite	1	NULL	NULL	105.62
K16-372	258.27		Phengite	1	NULL	NULL	110.86
K16-372	261.04		Phengite	1	NULL	NULL	90.736
K16-372	264.16		Phengite	0.618	Chlorite-FeMg	0.382	136.75
K16-372	267.8		Phengite	1	NULL	NULL	76.317
K16-372	771.71		Phengite	1	NULL	NULL	122.67
K16-372	274.64		Phengite	1	NULL	NULL	95.91
K16-372	279.96		Phengite	0.812	Siderite	0.188	133.63
K16-372	282.86		Phengite	1	NULL	NULL	103.6
K16-372	283.14		Phengite	1	NULL	NULL	124.26
K16-372	284.06		Phengite	1	NULL	NULL	111.1
K16-372	285.27		Phengite	1	NULL	NULL	134.72
K16-372	288.27		Phengite	1	NULL	NULL	130.22
K16-372	291.51		Phengite	1	NULL	NULL	130.75
K16-372	293.52		Phengite	1	NULL	NULL	131.01
K16-372	295.68		Phengite	1	NULL	NULL	153.85
K16-372	297.8		Phengite	1	NULL	NULL	126.89
K16-372	300.11		Phengite	1	NULL	NULL	124.03
K16-372	303.23		Phengite	1	NULL	NULL	157.04
K16-372	306.54		Phengite	1	NULL	NULL	99.823
K16-372	310.08		Phengite	1	NULL	NULL	111.32
K16-372	312.59		Phengite	1	NULL	NULL	109.72
K16-372	315.21		Phengite	1	NULL	NULL	191.78
K16-372	318.87		Phengite	1	NULL	NULL	83.908
K16-372	323.46		Phengite	1	NULL	NULL	137.17
K16-372	327.01		PhengiticIllite	1	NULL	NULL	109.85
K16-372	329.7		Phengite	1	NULL	NULL	136.41
K16-372	333.99		Phengite	1	NULL	NULL	158.71

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-372	335.54		Phengite	1	NULL	NULL	153.81
K16-372	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-372	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-372	336.31		Phengite	1	NULL	NULL	112.15
K16-372	339.68		Phengite	1	NULL	NULL	160.47
K16-372	343.12		Phengite	0.619	Chlorite-FeMg	0.381	247.62
K16-372	346.64		Aspectral	1	NULL	NULL	748.94
K16-372	350.66		Phengite	1	NULL	NULL	161.92
K16-372	352.7		Phengite	1	NULL	NULL	144.83
K16-372	355.18		Phengite	1	NULL	NULL	124.54
K16-372	357.93		Phengite	1	NULL	NULL	235.35
K16-372	361.46		Phengite	1	NULL	NULL	168.43
K16-372	367.12		Phengite	1	NULL	NULL	122.97
K16-372	369.98		Phengite	1	NULL	NULL	136.89
K16-372	373.95		Phengite	0.775	Chlorite-FeMg	0.225	65.831
K16-372	376.41		Phengite	0.77	Chlorite-FeMg	0.23	124
K16-372	378.64		Muscovitic Illite	0.641	Chlorite-FeMg	0.359	80.458
K16-372	381.99		Muscovite	0.55	Chlorite-FeMg	0.45	111.86
K16-372	386.4		Muscovite	0.557	Chlorite-FeMg	0.443	91.092
K16-372	389.6		Chlorite-FeMg	0.752	Muscovite	0.248	103.33
K16-372	392.75		Muscovite	0.577	Chlorite-Fe	0.423	140.88
K16-372	396		Muscovitic Illite	1	NULL	NULL	101.97
K16-372	399.42		Muscovite	0.743	Chlorite-FeMg	0.257	149.42
K16-372	402.39		Muscovite	1	NULL	NULL	103.17
K16-372	405.68		Phengite	0.747	Chlorite-FeMg	0.253	106.15
K16-372	408.25		Phengite	0.577	Chlorite-FeMg	0.423	141.71
K16-372	411.79		Chlorite-FeMg	0.614	Muscovite	0.386	154.58
K16-372	413.73		Chlorite-FeMg	0.534	Phengite	0.466	144.77
K16-372	415.94		Phengite	0.766	Siderite	0.234	123.96

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-372	418.9		Aspectral	1	NULL	NULL	103.16
K16-372	423.35		Aspectral	1	NULL	NULL	83.997
K16-372	428.85		Aspectral	1	NULL	NULL	84.112
K16-372	433.43		Chlorite-FeMg	0.507	Muscovite	0.493	80.947
K16-372	435.66		Muscovite	0.67	Chlorite-FeMg	0.33	128.6
K16-372	439.28		Chlorite-FeMg	0.641	Siderite	0.359	68.625
K16-372	442.14		Chlorite-FeMg	0.632	Muscovite	0.368	106.45
K16-372	444.73		Chlorite-FeMg	0.648	Muscovite	0.352	48.146
K16-372	449.09		Chlorite-FeMg	0.597	Phengite	0.403	30.698
K16-372	454.58		Chlorite-Fe	0.827	Siderite	0.173	103.15
K16-372	457.95		Aspectral	1	NULL	NULL	59.616
K16-372	466.25		Aspectral	1	NULL	NULL	91.619
K16-372	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-372	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-372	469.21		Muscovite	0.794	Chlorite-Mg	0.206	116.19
K16-372	470.39		Chlorite-FeMg	0.611	Muscovite	0.389	80.97
K16-372	472.62		Chlorite-FeMg	0.626	Muscovite	0.374	87.3
K16-372	475.91		Chlorite-FeMg	0.634	Muscovite	0.366	124.71
K16-372	478.13		Chlorite-FeMg	0.729	Phengite	0.271	108.28
K16-372	481.55		Phengite	0.647	Chlorite-FeMg	0.353	103.56
K16-372	483.46		Phengite	1	NULL	NULL	35.38
K16-372	485.67		Phengite	1	NULL	NULL	97.295
K16-372	488.19		Phengite	1	NULL	NULL	162.85
K16-372	492.71		Phengite	0.593	Chlorite-FeMg	0.407	105.11
K16-372	493.75		Chlorite-FeMg	1	NULL	NULL	109.48
K16-372	496.51		Muscovite	0.528	Chlorite-FeMg	0.472	142.31
K16-372	499.23		Phengite	1	NULL	NULL	109.54
K16-372	502.33		Phengite	1	NULL	NULL	96.896
K16-372	505.67		Phengite	1	NULL	NULL	68.831

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-372	508.61		Phengite	1	NULL	NULL	85.533
K16-372	511.19		Phengite	0.79	Ankerite	0.21	133.86
K16-372	515.31		Phengite	1	NULL	NULL	28.658
K16-372	521.75		Phengite	1	NULL	NULL	75.291
K16-372	521.89		Phengite	1	NULL	NULL	106.59
K16-372	522.45		Phengite	1	NULL	NULL	164.58
K16-372	523.64		Phengite	1	NULL	NULL	102.03
K16-372	526.67		Phengite	1	NULL	NULL	79.615
K16-372	529.33		Phengite	1	NULL	NULL	87.223
K16-372	531.67		Phengite	1	NULL	NULL	95.717
K16-372	533.33		Chlorite-FeMg	0.391	Phengite	0.39	123.59
K16-372	534.86		Phengite	0.633	Chlorite-FeMg	0.367	327.37
K16-372	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-372	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	976.2
K16-372	536.62		Biotite	0.824	Hornblende	0.176	226.12
K16-372	536.77		Phengite	1	NULL	NULL	192.65
K16-372	539.19		Phengite	0.738	Chlorite-Fe	0.262	123.26
K16-372	541.1		Phengite	1	NULL	NULL	239.85
K16-372	543.19		Phengite	1	NULL	NULL	107.45
K16-372	545.56		Chlorite-FeMg	0.547	Phengite	0.453	275.64
K16-372	547.98		NULL	NULL	NULL	NULL	NULL
K16-372	551.2		Biotite	0.58	Phengite	0.42	76.141
K16-372	553.73		Phengite	1	NULL	NULL	138.81
K16-372	556.29		Phengite	1	NULL	NULL	195.33
K16-372	559.6		Phengite	1	NULL	NULL	106.86
K16-372	562.97		Phengite	1	NULL	NULL	161.48
K16-372	565.31		Chlorite-FeMg	0.504	Biotite	0.496	46.943
K16-372	568.23		Biotite	0.817	Phlogopite	0.183	26.941
K16-372	571.17		Muscovitic Illite	1	NULL	NULL	178.54

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-372	574.79		Biotite	0.79	Phlogopite	0.21	64.118
K16-372	577.43		Biotite	0.761	Riebeckite	0.239	114.45
K16-372	580.97		Biotite	0.654	Phengite	0.186	80.991
K16-372	583.29		Biotite	0.681	Chlorite-FeMg	0.319	261.43
K16-372	589.08		Phengite	1	NULL	NULL	283.63
K16-372	592.64		Phengite	0.767	Chlorite-FeMg	0.233	191.37
K16-372	595.81		Phengite	1	NULL	NULL	143.49
K16-372	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	996.99
K16-374	8.8		Muscovite	0.663	Chlorite-FeMg	0.337	80.88
K16-374	13.3		Chlorite-Fe	0.464	Muscovite	0.33	38.543
K16-374	16.8		Phengite	0.509	Chlorite-FeMg	0.491	58.142
K16-374	19.8		Aspectral	1	NULL	NULL	139.61
K16-374	24.8		Aspectral	1	NULL	NULL	57.606
K16-374	29.6		Aspectral	1	NULL	NULL	80.981
K16-374	35		Chlorite-FeMg	0.728	Kaolinite-WX	0.272	110.5
K16-374	39.6		Kaolinite-WX	0.733	Muscovite	0.267	29.871
K16-374	42.1		Kaolinite-WX	0.583	Chlorite-Fe	0.417	152.42
K16-374	45.1		Chlorite-Fe	0.824	Muscovite	0.176	182.45
K16-374	50.6		Phengite	0.754	Gypsum	0.246	51.401
K16-374	55.7		Phengite	1	NULL	NULL	75.505
K16-374	60.8		Phengite	0.842	Ankerite	0.158	145.84
K16-374	65.8		Phengite	0.655	Chlorite-FeMg	0.345	147.27
K16-374	71.2		Phengite	1	NULL	NULL	78.2
K16-374	75.8		Phengite	1	NULL	NULL	118.95
K16-374	80.8		Phengite	1	NULL	NULL	147.02
K16-374	85.8		Phengite	1	NULL	NULL	68.999
K16-374	90.8		Phengite	0.753	Siderite	0.247	80.316
K16-374	95.8		Phengite	1	NULL	NULL	146.52
K16-374	100.8		Phengite	1	NULL	NULL	118.91

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-374	105.8		Phengite	1	NULL	NULL	95.926
K16-374	110.8		Phengite	1	NULL	NULL	126.71
K16-374	115.8		Phengite	1	NULL	NULL	105.57
K16-374	120.8		Phengite	1	NULL	NULL	162.14
K16-374	125.8		Phengite	1	NULL	NULL	202.84
K16-374	130.8		Phengite	1	NULL	NULL	125.37
K16-374	135.8		Phengite	1	NULL	NULL	147.07
K16-374	140.8		Phengite	1	NULL	NULL	151.85
K16-374	145.8		Chlorite-FeMg	0.649	Phengite	0.351	49.032
K16-374	150.8		Phengite	1	NULL	NULL	93.358
K16-374	155.8		Phengite	1	NULL	NULL	128.72
K16-374	160.8		Phengite	1	NULL	NULL	138.05
K16-374	165.8		Phengite	0.722	Chlorite-Mg	0.278	441.36
K16-374	170.8		Biotite	0.761	Phlogopite	0.239	52.012
K16-374	175.8		Phengite	1	NULL	NULL	69.931
K16-374	180.8		Phengite	1	NULL	NULL	132.43
K16-374	185.8		Phengite	1	NULL	NULL	84.34
K16-374	190.8		Phengite	1	NULL	NULL	154.8
K16-374	195.8		Phengite	1	NULL	NULL	127.39
K16-374	200.8		Phengite	1	NULL	NULL	201.96
K16-374	205.8		Phengite	1	NULL	NULL	280.72
K16-374	210.8		Phengite	1	NULL	NULL	170.54
K16-374	215.8		Phengite	1	NULL	NULL	118.69
K16-374	220.8		Phengite	0.697	Chlorite-FeMg	0.303	197.14
K16-374	225.8		Phengite	1	NULL	NULL	157.17
K16-374	230.8		Phengite	1	NULL	NULL	154.61
K16-374	235.8		Phengite	1	NULL	NULL	205.31
K16-374	240.8		Phengite	1	NULL	NULL	77.496
K16-374	245.7		Phengite	1	NULL	NULL	127.37

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-374	250.8		Phengite	1	NULL	NULL	115.88
K16-374	255.8		Phengite	1	NULL	NULL	151.1
K16-374	260.8		Phengite	1	NULL	NULL	116.66
K16-374	265.8		Phengite	1	NULL	NULL	58.214
K16-374	270.8		Phengite	1	NULL	NULL	133.22
K16-374	275.8		Phengite	1	NULL	NULL	149.56
K16-374	280.8		Phengite	1	NULL	NULL	111.84
K16-374	285.6		Phengite	1	NULL	NULL	140.26
K16-374	290.8		Phengite	0.671	Siderite	0.329	35.975
K16-374	295.8		Phengite	1	NULL	NULL	126.97
K16-374	300.8		Phengite	1	NULL	NULL	145.98
K16-374	305.8		Phengite	1	NULL	NULL	83.334
K16-374	310.8		Phengite	1	NULL	NULL	47.147
K16-374	315.8		Phengite	1	NULL	NULL	80.439
K16-374	320.8		Phengite	1	NULL	NULL	92.733
K16-374	325.8		Phengite	1	NULL	NULL	62.962
K16-374	330.8		Muscovitic Illite	1	NULL	NULL	144.54
K16-374	335.8		Phengite	1	NULL	NULL	159.43
K16-374	340.8		Phengite	1	NULL	NULL	117.63
K16-374	345.8		Phengite	1	NULL	NULL	119.71
K16-374	350.8		Phengite	1	NULL	NULL	143.96
K16-374	355.8		Phengite	1	NULL	NULL	142
K16-374	360.6		Phengite	1	NULL	NULL	127.99
K16-374	365.8		Phengite	1	NULL	NULL	69.904
K16-374	370.8		Phengite	1	NULL	NULL	83.337
K16-374	375.8		Phengite	1	NULL	NULL	60.677
K16-374	380.8		Phengite	1	NULL	NULL	47.12
K16-374	385.8		Phengite	1	NULL	NULL	100.16
K16-374	390.8		Phengite	1	NULL	NULL	115.1

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-374	395.9		Phengite	1	NULL	NULL	144.23
K16-374	400.8		Phengite	1	NULL	NULL	68.427
K16-374	405.8		Phengite	1	NULL	NULL	97.531
K16-374	410.8		Phengite	1	NULL	NULL	134.7
K16-374	415.8		Phengite	1	NULL	NULL	97.906
K16-374	420.8		Phengite	1	NULL	NULL	77.286
K16-374	425.8		Phengite	1	NULL	NULL	126.57
K16-374	430.8		Phengite	1	NULL	NULL	78.883
K16-374	435.8		Phengite	0.762	Siderite	0.238	96.336
K16-374	440.8		Phengite	1	NULL	NULL	116.96
K16-374	445.8		Phengite	1	NULL	NULL	139.37
K16-374	450.8		Phengite	1	NULL	NULL	118.12
K16-374	455.8		Muscovitic Illite	1	NULL	NULL	158.85
K16-374	460.8		Phengite	1	NULL	NULL	160.51
K16-374	465.8		Phengite	1	NULL	NULL	102.93
K16-374	470.8		Phengite	1	NULL	NULL	110.93
K16-374	475.8		Phengite	1	NULL	NULL	139.27
K16-374	480.8		Phengite	1	NULL	NULL	237.5
K16-374	485.8		Phengite	0.715	Chlorite-FeMg	0.285	202.51
K16-374	490.8		Phengite	1	NULL	NULL	81.078
K16-374	495.8		Phengite	1	NULL	NULL	78.866
K16-374	500.8		Phengite	1	NULL	NULL	157.67
K16-374	505.8		Ankerite	1	NULL	NULL	42.971
K16-374	510.9		Phengite	1	NULL	NULL	79.52
K16-374	515.8		Phengite	1	NULL	NULL	187.43
K16-374	520.8		Phengite	1	NULL	NULL	113.09
K16-374	525.8		Phengite	1	NULL	NULL	190.45
K16-374	530.8		Phengite	1	NULL	NULL	219.73
K16-374	535.8		Phengite	1	NULL	NULL	178.77

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-374	540.7		Phengite	1	NULL	NULL	107.54
K16-374	545.9		Phengite	0.712	Chlorite-FeMg	0.288	126.34
K16-374	550.8		Phengite	1	NULL	NULL	91.246
K16-374	555.8		Phengite	1	NULL	NULL	104.89
K16-374	560.8		Phengite	1	NULL	NULL	151.33
K16-374	565.8		Phengite	0.812	Siderite	0.188	55.802
K16-374	570.8		Phengite	1	NULL	NULL	19.144
K16-374	575.8		Phengite	1	NULL	NULL	128.45
K16-374	580.8		Calcite	1	NULL	NULL	28.147
K16-374	585.8		Phengite	1	NULL	NULL	112.68
K16-374	590.8		Phengite	1	NULL	NULL	87.681
K16-374	595.8		Phengite	1	NULL	NULL	82.758
K16-374	600.8		Phengite	1	NULL	NULL	75.256
K16-374	605.9		Phengite	1	NULL	NULL	106.06
K16-374	610.8		Phengite	1	NULL	NULL	118.52
K16-374	615.8		Chlorite-FeMg	0.705	Muscovite	0.295	50.194
K16-374	620.8		Phengite	1	NULL	NULL	81.077
K16-374	625.8		Phengite	1	NULL	NULL	163.5
K16-374	630.8		Phengite	1	NULL	NULL	139.03
K16-374	635.9		Phengite	1	NULL	NULL	108.78
K16-374	640.8		Chlorite-FeMg	0.804	Muscovite	0.196	90.652
K16-374	645.8		PhengiticIllite	0.626	Chlorite-Fe	0.374	54.935
K16-374	650.8		Chlorite-FeMg	0.8	MuscoviticIllite	0.2	64.539
K16-374	655.8		Phengite	1	NULL	NULL	83.592
K16-374	660.8		Phengite	1	NULL	NULL	82.318
K16-374	665.8		Phengite	1	NULL	NULL	119.06
K16-374	670.8		Biotite	0.669	Chlorite-FeMg	0.331	149.49
K16-374	675.8		Biotite	0.837	Hornblende	0.163	108.97
K16-374	680.8		PhengiticIllite	0.705	Chlorite-FeMg	0.295	127.56

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-374	685.8		Phengite	1	NULL	NULL	216.67
K16-374	690.8		Phengite	1	NULL	NULL	89.839
K16-374	695.8		Phengite	1	NULL	NULL	120.08
K16-374	700.7		Phengite	1	NULL	NULL	91.22
K16-374	705.8		Phengite	1	NULL	NULL	102.99
K16-374	710.8		Phengite	1	NULL	NULL	200.55
K16-374	715.8		Phengite	1	NULL	NULL	114.45
K16-374	720.8		Phengite	0.638	Chlorite-FeMg	0.362	157.35
K16-374	725.8		Chlorite-FeMg	0.806	Muscovite	0.194	68.813
K16-374	730.8		Chlorite-Fe	0.584	Muscovite	0.416	221.08
K16-374	735.8		Chlorite-FeMg	1	NULL	NULL	165.8
K16-374	740.8		Chlorite-FeMg	0.587	Muscovite	0.255	66.751
K16-374	745.8		Muscovite	1	NULL	NULL	174.61
K16-374	750.8		Chlorite-FeMg	0.608	Phengite	0.392	177.88
K16-374	755.8		Aspectral	1	NULL	NULL	32.378
K16-374	760.8		Phengite	0.765	Chlorite-FeMg	0.235	28.4
K16-374	765.8		Chlorite-FeMg	0.7	Phengite	0.3	29.048
K16-374	770.8		Chlorite-FeMg	1	NULL	NULL	25.569
K16-374	775.9		Phengite	0.623	Chlorite-FeMg	0.377	128.5
K16-374	780.8		Muscovite	1	NULL	NULL	92.903
K16-374	785.8		Muscovite	0.573	Chlorite-FeMg	0.427	144.82
K16-374	790.8		Chlorite-FeMg	1	NULL	NULL	195.21
K16-374	795.8		Muscovite	1	NULL	NULL	112.15
K16-374	800.8		Chlorite-FeMg	0.595	Muscovite	0.405	186.87
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	989.44
K16-394	7.15		Phengite	0.535	Chlorite-Fe	0.465	217.26
K16-394	10.36		Phengite	0.616	Chlorite-Fe	0.384	127.47
K16-394	12.12		Phengite	1	NULL	NULL	82.608
K16-394	14.73		Phengite	1	NULL	NULL	99.483

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-394	17.15		Phengite	0.567	Chlorite-FeMg	0.433	112.35
K16-394	26.4		Chlorite-FeMg	0.829	Phengite	0.171	83.204
K16-394	33.18		Chlorite-FeMg	0.768	Muscovite	0.232	106.15
K16-394	35.14		Chlorite-FeMg	0.693	Phengite	0.307	151.41
K16-394	38.28		Chlorite-Fe	1	NULL	NULL	306.63
K16-394	41.34		Chlorite-FeMg	0.605	Phengite	0.395	98.147
K16-394	43.62		Chlorite-FeMg	0.736	Phengite	0.264	79.79
K16-394	49.29		Chlorite-FeMg	0.842	Phengite	0.158	71.974
K16-394	50.38		Chlorite-FeMg	0.803	MuscoviticIllite	0.197	67.656
K16-394	55.58		Chlorite-FeMg	0.744	Phengite	0.256	131.86
K16-394	64.37		Chlorite-FeMg	1	NULL	NULL	134.19
K16-394	69		Chlorite-FeMg	0.764	Phengite	0.236	164.23
K16-394	72.32		Chlorite-FeMg	1	NULL	NULL	107.67
K16-394	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	968.7
K16-394	74.45		Chlorite-FeMg	1	NULL	NULL	94.025
K16-394	77.05		Chlorite-FeMg	1	NULL	NULL	138.55
K16-394	80.75		Chlorite-Fe	1	NULL	NULL	146.57
K16-394	84.78		Chlorite-FeMg	0.833	Phengite	0.167	95.981
K16-394	122.45		Chlorite-FeMg	0.828	Phengite	0.172	63.223
K16-394	125.16		Chlorite-FeMg	0.731	Biotite	0.269	119.95
K16-394	130.17		Phengite	0.618	Chlorite-FeMg	0.207	89.288
K16-394	132.15		Chlorite-FeMg	0.655	Phengite	0.345	113.22
K16-394	135.22		Chlorite-FeMg	0.777	Siderite	0.223	124.88
K16-394	138.33		Chlorite-FeMg	0.431	Phengite	0.413	132.22
K16-394	141.49		Chlorite-FeMg	0.586	Phengite	0.414	100.82
K16-394	144.78		Phengite	0.521	Chlorite-FeMg	0.479	200.72
K16-394	144.83		Chlorite-FeMg	0.681	Calcite	0.319	98.267
K16-394	145.09		Chlorite-FeMg	0.602	Phengite	0.398	88.654

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-394	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-394	147.97		Phengite	1	NULL	NULL	44.879
K16-394	152.06		Chlorite-FeMg	0.818	Phengite	0.182	47.996
K16-394	155.59		Chlorite-FeMg	1	NULL	NULL	55.28
K16-394	158.52		Chlorite-FeMg	0.831	Montmorillonite	0.169	95.134
K16-394	160.82		Chlorite-FeMg	0.784	Phengite	0.216	91.402
K16-394	164.37		Chlorite-FeMg	1	NULL	NULL	140.63
K16-394	166.39		Chlorite-FeMg	0.657	Phengite	0.343	109.32
K16-394	169.74		Aspectral	1	NULL	NULL	28.964
K16-394	172.22		Chlorite-FeMg	0.769	Phengite	0.231	117.01
K16-394	179.1		Chlorite-FeMg	0.428	Biotite	0.408	65.686
K16-394	180.11		Phengite	1	NULL	NULL	260.75
K16-394	183.65		Chlorite-FeMg	0.502	Phengite	0.34	169.04
K16-394	186.26		Chlorite-FeMg	0.606	Phengite	0.394	113.6
K16-394	189.35		Chlorite-FeMg	0.799	Phengite	0.201	127.62
K16-394	192.16		Chlorite-Fe	0.829	Phengite	0.171	133.19
K16-394	195.73		Chlorite-FeMg	1	NULL	NULL	245.94
K16-394	198.33		Phengite	0.574	Chlorite-FeMg	0.426	112.05
K16-394	203.67		Chlorite-Fe	1	NULL	NULL	232.39
K16-394	205.15		Chlorite-Fe	0.85	Ankerite	0.15	135.39
K16-394	209.23		Chlorite-FeMg	0.73	Muscovite	0.27	163.52
K16-394	210.63		Chlorite-FeMg	0.781	Phengite	0.219	91.228
K16-394	215.25		Phengite	0.749	Siderite	0.251	53.345
K16-394	250.86		Chlorite-FeMg	0.701	Phengite	0.299	61.809
K16-394	253.9		Chlorite-FeMg	1	NULL	NULL	166.83
K16-394	256.35		Chlorite-FeMg	0.582	Muscovite	0.418	72.528
K16-394	258.91		Chlorite-FeMg	0.74	Phengite	0.26	111.33
K16-394	264.23		Phengite	0.529	Chlorite-FeMg	0.471	123.44

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-394	268.27		Chlorite-Fe	1	NULL	NULL	177.9
K16-394	270.17		Chlorite-FeMg	1	NULL	NULL	200.69
K16-394	279.32		Chlorite-FeMg	0.805	Phengite	0.195	95.032
K16-394	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	933.58
K16-394	279.81		Chlorite-FeMg	0.83	Muscovite	0.17	123.72
K16-394	281.88		Chlorite-FeMg	0.835	Muscovite	0.165	98.856
K16-394	285.2		Chlorite-FeMg	0.506	Phengite	0.494	152.03
K16-394	292.7		Chlorite-Fe	1	NULL	NULL	209.78
K16-394	294.66		Phengite	1	NULL	NULL	82.115
K16-394	297.57		Phengite	1	NULL	NULL	118.55
K16-394	300.7		Phengite	1	NULL	NULL	62.252
K16-394	306.06		Phengite	1	NULL	NULL	102.72
K16-394	310.19		Phengite	0.455	Kaolinite-WX	0.314	52.394
K16-394	313.2		Phengite	0.481	Chlorite-Fe	0.271	100.42
K16-394	317.08		Phengite	0.826	Siderite	0.174	67.341
K16-394	319.71		Chlorite-FeMg	0.534	Phengite	0.466	163.53
K16-394	322.85		Phengite	1	NULL	NULL	148.08
K16-394	327.22		Phengite	0.636	Chlorite-FeMg	0.364	200.63
K16-394	330.78		Phengite	1	NULL	NULL	80.902
K16-394	333.91		Phengite	1	NULL	NULL	67.075
K16-394	337.29		Phengite	1	NULL	NULL	102.87
K16-394	340.11		Phengite	1	NULL	NULL	151.49
K16-394	343.5		Phengite	1	NULL	NULL	139.13
K16-394	346.8		Phengite	1	NULL	NULL	90.998
K16-394	347.6		Phengite	1	NULL	NULL	128.78
K16-394	350.3		Phengite	1	NULL	NULL	183.36
K16-394	353.72		Phengite	0.761	Chlorite-FeMg	0.239	182.42
K16-394	356.8		Phengite	1	NULL	NULL	152.84

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-394	360.09		PhengiticIllite	1	NULL	NULL	135.48
K16-394	362.9		Phengite	1	NULL	NULL	133.71
K16-394	366.01		Phengite	1	NULL	NULL	124.38
K16-394	369.25		Phengite	0.757	Chlorite-FeMg	0.243	111.25
K16-394	373.33		Phengite	1	NULL	NULL	123.78
K16-394	376.59		PhengiticIllite	1	NULL	NULL	165.43
K16-394	382.45		PhengiticIllite	1	NULL	NULL	121.45
K16-394	384.13		Phengite	1	NULL	NULL	130.53
K16-394	387.4		Phengite	1	NULL	NULL	229.96
K16-394	390.69		Phengite	1	NULL	NULL	180.7
K16-394	394.18		Phengite	1	NULL	NULL	192.63
K16-394	387.52		Phengite	1	NULL	NULL	160.43
K16-394	400.69		Phengite	1	NULL	NULL	137.61
K16-394	404.78		Phengite	1	NULL	NULL	199.41
K16-394	407.1		Phengite	1	NULL	NULL	143.39
K16-394	409.21		Phengite	1	NULL	NULL	147
K16-394	411.22		Phengite	1	NULL	NULL	164.38
K16-394	414.34		Phengite	1	NULL	NULL	127.28
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	765.96
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	881.28
K16-394	424.44		Phengite	1	NULL	NULL	149.97
K16-394	426.6		Phengite	1	NULL	NULL	167.45
K16-394	428.7		Phengite	1	NULL	NULL	160.55
K16-394	430.76		Phengite	1	NULL	NULL	143.88
K16-394	433.1		Phengite	1	NULL	NULL	216.21
K16-394	437.22		Phengite	1	NULL	NULL	146.58
K16-394	438.28		Aspectral	1	NULL	NULL	398.73
K16-394	441.2		Phengite	1	NULL	NULL	178.18
K16-394	445.45		Phengite	1	NULL	NULL	267.91

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-394	449.91		Phengite	1	NULL	NULL	174.27
K16-394	451.75		Phengite	1	NULL	NULL	163.96
K16-394	456.53		Phengite	1	NULL	NULL	129.31
K16-394	461.87		Phengite	1	NULL	NULL	221.59
K16-394	466.63		Phengite	1	NULL	NULL	110.27
K16-394	470.48		Phengite	1	NULL	NULL	176.36
K16-394	478.21		Phengite	1	NULL	NULL	510.51
K16-394	401.52		Phengite	1	NULL	NULL	138.14
K16-394	485.61		Phengite	1	NULL	NULL	137.18
K16-394	494.5		Phengite	1	NULL	NULL	121.4
K16-394	497.75		Phengite	1	NULL	NULL	170.69
K16-394	502.27		Phengite	1	NULL	NULL	174.39
K16-394	505.58		Phengite	1	NULL	NULL	119.91
K16-394	507.53		Phengite	0.792	Siderite	0.208	148.42
K16-394	510.64		Phengite	1	NULL	NULL	98.139
K16-394	514.66		Phengite	1	NULL	NULL	130.34
K16-394	517.34		Phengite	1	NULL	NULL	117.8
K16-394	520.46		Muscovitic Illite	1	NULL	NULL	115.01
K16-394	526.88		Muscovite	1	NULL	NULL	222.34
K16-394	534.85		Muscovite	1	NULL	NULL	159.57
K16-394	538.4		Muscovite	1	NULL	NULL	193.17
K16-394	541.5		Muscovite	1	NULL	NULL	181.27
K16-394	546.9		Muscovite	1	NULL	NULL	199.19
K16-394	550.28		Muscovite	1	NULL	NULL	208.28
K16-394	554.7		Muscovite	1	NULL	NULL	189.14
K16-394	557.95		Muscovite	1	NULL	NULL	289.75
K16-394	562.3		Muscovite	1	NULL	NULL	222.43
K16-394	564.5		Muscovite	1	NULL	NULL	178.08
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	921.49
K16-394	567.5		Phengite	0.826	Diaspore	0.174	158.85
K16-394	570.17		Muscovite	1	NULL	NULL	157.49
K16-394	573.48		Muscovite	1	NULL	NULL	212.91
K16-394	578.8		Muscovite	1	NULL	NULL	181.49
K16-394	583.61		Phengite	1	NULL	NULL	242.03
K16-394	588.74		Phengite	1	NULL	NULL	109.78
K16-394	593.51		Phengite	1	NULL	NULL	105.17
K16-394	596.38		Phengite	1	NULL	NULL	131.53
K16-394	599.88		Phengite	1	NULL	NULL	176.38
K16-394	602.92		Phengite	1	NULL	NULL	145.71
K16-394	605.88		Phengite	1	NULL	NULL	147.1
K16-394	608.52		Phengite	1	NULL	NULL	110.77
K16-394	611.73		Phengite	1	NULL	NULL	151.61
K16-394	614.3		Phengite	0.523	Chlorite-Fe	0.477	541.46
K16-394	617.46		Phengite	0.801	Chlorite-FeMg	0.199	152.45
K16-394	620.39		Phengite	1	NULL	NULL	120.45
K16-394	623.13		Phengite	1	NULL	NULL	102.87
K16-394	626.41		Phengite	1	NULL	NULL	97.544
K16-394	631.48		Phengite	1	NULL	NULL	144.49
K16-394	634.1		Phengite	1	NULL	NULL	115.79
K16-394	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	995.49
K16-394	637.35		Phengite	1	NULL	NULL	99.144
K16-394	640.77		Phengite	1	NULL	NULL	137.13
K16-394	643.23		Phengite	1	NULL	NULL	181.69
K16-394	646.77		Phengite	1	NULL	NULL	163.86
K16-394	649.62		Phengite	1	NULL	NULL	108.65
K16-394	652.74		Phengite	1	NULL	NULL	130.46

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-394	655.67		Phengite	1	NULL	NULL	171.2
K16-394	660.73		Phengite	1	NULL	NULL	146.05
K16-394	665.52		Phengite	1	NULL	NULL	123.3
K16-394	668.5		Phengite	1	NULL	NULL	149.59
K16-394	671.43		Phengite	1	NULL	NULL	107.97
K16-394	674.39		Phengite	1	NULL	NULL	113.96
K16-394	677.25		Phengite	1	NULL	NULL	108.6
K16-394	682.76		Phengite	1	NULL	NULL	135.38
K16-394	686.59		Phengite	0.681	Kaolinite-WX	0.319	76.939
K16-394	689.54		Phengite	1	NULL	NULL	109.12
K16-394	694.55		Phengite	1	NULL	NULL	165.88
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-394	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-394	697.56		Phengite	1	NULL	NULL	305.15
K16-394	700.7		Phengite	1	NULL	NULL	221.4
K16-394	705.21		Phengite	1	NULL	NULL	174.27
K16-394	710.47		Phengite	1	NULL	NULL	124.53
K16-394	715.7		Phengite	1	NULL	NULL	136.64
K16-394	720.29		Phengite	1	NULL	NULL	249.08
K16-394	723.16		Phengite	1	NULL	NULL	254.4
K16-394	726.28		Phengite	1	NULL	NULL	170.62
K16-394	729.11		Kaolinite-WX	0.787	PhengiticIllite	0.213	82.96
K16-394	733.06		Phengite	1	NULL	NULL	182.63
K16-394	735.06		Phengite	1	NULL	NULL	691.09
K16-394	739.12		Phengite	1	NULL	NULL	436.68
K16-394	745.85		Phengite	1	NULL	NULL	152.47
K16-394	748.26		Phengite	1	NULL	NULL	135.5
K16-394	751.47		Phengite	1	NULL	NULL	164.49
K16-394	753.58		Phengite	0.635	Calcite	0.365	273.4

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-394	754.69		Phengite	1	NULL	NULL	129.39
K16-394	756.38		Phengite	0.777	Prehnite	0.223	936.61
K16-394	758.45		Phengite	1	NULL	NULL	220.66
K16-394	759.12		Biotite	0.8	Diaspore	0.2	815.56
K16-394	761.07		Phengite	1	NULL	NULL	190.44
K16-394	764.46		Phengite	1	NULL	NULL	144.11
K16-394	767.66		Phengite	1	NULL	NULL	133.32
K16-394	769.64		Phengite	1	NULL	NULL	192.94
K16-394	772.19		Phengite	1	NULL	NULL	163.52
K16-394	774.53		Chlorite-FeMg	0.515	Phengite	0.485	292.36
K16-394	777.87		Chlorite-FeMg	0.588	Phengite	0.412	322.48
K16-394	781.32		Chlorite-FeMg	1	NULL	NULL	268.82
K16-394	798.05		Phengite	0.791	Chlorite-Mg	0.209	250.4
K16-394	801.37		Phengite	1	NULL	NULL	200.46
K16-394	804.88		Phengite	1	NULL	NULL	285.64
K16-394	809.87		Phengite	0.528	Calcite	0.472	167.25
K16-394	812.39		Phengite	1	NULL	NULL	222.95
K16-394	815.36		Phengite	0.727	Ankerite	0.273	282.55
K16-394	819.37		Phengite	0.783	Ankerite	0.217	205.49
K16-394	821.66		Phengite	1	NULL	NULL	172.88
K16-394	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-394	828.34		Phengite	1	NULL	NULL	411.86
K16-394	830.51		Phengite	1	NULL	NULL	278.99
K16-394	834.35		Phengite	1	NULL	NULL	309.62
K16-394	835.76		Phengite	1	NULL	NULL	268.4
K16-394	839.18		Phengite	1	NULL	NULL	820.73
K16-394	843.73		Phengite	1	NULL	NULL	256.87
K16-394	844.93		Phengite	1	NULL	NULL	196.01

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-394	845.69		Phengite	1	NULL	NULL	232.1
K16-394	881.55		Muscovite	1	NULL	NULL	369.42
K16-394	890.09		Chlorite-FeMg	0.769	Muscovite	0.231	246.75
K16-394	892.46		Muscovite	0.54	Chlorite-Fe	0.46	273.85
K16-394	895.75		Phengite	1	NULL	NULL	180
K16-394	896.52		Phengite	1	NULL	NULL	198.72
K16-394	898.39		Phengite	1	NULL	NULL	295.76
K16-394	901.81		Phengite	1	NULL	NULL	254.88
K16-394	907.01		Phengite	1	NULL	NULL	187.71
K16-394	910.25		Phengite	1	NULL	NULL	194.58
K16-394	913.18		Phengite	1	NULL	NULL	266.83
K16-394	917.16		Phengite	1	NULL	NULL	226.48
K16-394	920.26		Phengite	1	NULL	NULL	216.92
K16-394	933.2		PhengiticIllite	1	NULL	NULL	185.24
K16-394	935.1		Phengite	1	NULL	NULL	222.93
K16-394	939.37		Phengite	1	NULL	NULL	256.81
K16-394	942.65		Phengite	1	NULL	NULL	232.26
K16-394	944.18		Phengite	1	NULL	NULL	236.89
K16-394	952.98		Phengite	1	NULL	NULL	278.98
K16-394	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-406	10		Phengite	0.738	Dolomite	0.262	155.15
K16-406	85		Phengite	1	NULL	NULL	138.83
K16-406	90		Phengite	0.732	Chlorite-Fe	0.268	130.56
K16-406	95		Phengite	1	NULL	NULL	165.18
K16-406	100		Phengite	0.821	Alunite-NH	0.179	113.31
K16-406	105		Phengite	1	NULL	NULL	128.16
K16-406	108.2		Phengite	1	NULL	NULL	105.16
K16-406	111		Phengite	1	NULL	NULL	121.69
K16-406	115		Phengite	1	NULL	NULL	137.39

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-406	120		Phengite	1	NULL	NULL	153.78
K16-406	125		Phengite	0.844	Alunite-NH	0.156	127.14
K16-406	130		Phengite	1	NULL	NULL	130.02
K16-406	135		Phengite	1	NULL	NULL	139.33
K16-406	140		Phengite	1	NULL	NULL	119.57
K16-406	145		Phengite	1	NULL	NULL	172.2
K16-406	150		Phengite	1	NULL	NULL	138.13
K16-406	152.7		Phengite	1	NULL	NULL	113.6
K16-406	155		Phengite	0.564	Kaolinite-WX	0.436	85.209
K16-406	160		Phengite	1	NULL	NULL	52.194
K16-406	163		Phengite	1	NULL	NULL	59.1
K16-406	165.2		Phengite	1	NULL	NULL	95.827
K16-406	170		Phengite	1	NULL	NULL	96.745
K16-406	175.8		Phengite	1	NULL	NULL	33.931
K16-406	179		Phengite	1	NULL	NULL	58.868
K16-406	181		Phengite	1	NULL	NULL	109.09
K16-406	184		Phengite	1	NULL	NULL	56.467
K16-406	187		Phengite	1	NULL	NULL	98.657
K16-406	191		Phengite	1	NULL	NULL	65.098
K16-406	194		Phengite	1	NULL	NULL	46.609
K16-406	197		Muscovite	1	NULL	NULL	189.62
K16-406	200.4		Phengite	0.714	Ankerite	0.286	64.189
K16-406	200.5		Phengite	1	NULL	NULL	93.341
K16-406	203.6		Phengite	1	NULL	NULL	53.395
K16-406	207		Phengite	1	NULL	NULL	67.101
K16-406	209.8		Phengite	1	NULL	NULL	196.02
K16-406	210		Phengite	1	NULL	NULL	159.26
K16-406	213		Aspectral	1	NULL	NULL	28.867
K16-406	218		Phengite	1	NULL	NULL	224.21

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-406	221		Phengite	1	NULL	NULL	140.66
K16-406	224		Phengite	1	NULL	NULL	187.6
K16-406	229		Phengite	1	NULL	NULL	113.83
K16-406	234		Phengite	1	NULL	NULL	88.29
K16-406	239		Phengite	1	NULL	NULL	91.723
K16-406	244		Phengite	1	NULL	NULL	99.764
K16-406	249		Phengite	1	NULL	NULL	56.782
K16-406	253		Phengite	0.713	Chlorite-FeMg	0.287	166.64
K16-406	256		Chlorite-FeMg	0.608	Phengite	0.392	185.66
K16-406	259		Phengite	1	NULL	NULL	97.054
K16-406	262		Phengite	1	NULL	NULL	113.02
K16-406	267		Phengite	0.833	Alunite-NH	0.167	117.23
K16-406	272		Phengite	1	NULL	NULL	145.61
K16-406	277		Phengite	1	NULL	NULL	187.92
K16-406	282		Phengite	1	NULL	NULL	201
K16-406	287		Phengite	0.813	Kaolinite-PX	0.187	87.273
K16-406	292		Phengite	1	NULL	NULL	168.28
K16-406	297		Phengite	1	NULL	NULL	157.83
K16-408	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	934.89
K16-408	9.3		Chlorite-FeMg	0.762	Muscovite	0.238	68.752
K16-408	13.3		Chlorite-FeMg	1	NULL	NULL	103.6
K16-408	16.3		Chlorite-FeMg	0.675	Siderite	0.325	78.719
K16-408	19.3		Phengite	0.693	Chlorite-FeMg	0.307	59.494
K16-408	22.3		Phengite	1	NULL	NULL	113.49
K16-408	25.3		Phengite	0.626	Chlorite-FeMg	0.374	40.633
K16-408	28.3		Chlorite-FeMg	0.78	Phengite	0.22	162.79
K16-408	31.3		Chlorite-FeMg	0.806	Phengite	0.194	65.209
K16-408	34.3		Chlorite-FeMg	0.568	Phengite	0.432	73.025
K16-408	37.3		Chlorite-Mg	0.59	Calcite	0.41	73.829

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-408	43.3		Chlorite-FeMg	0.837	Gypsum	0.163	131.13
K16-408	46.3		Chlorite-FeMg	0.694	Biotite	0.306	75.269
K16-408	55.3		Phengite	0.527	Chlorite-FeMg	0.473	114.39
K16-408	58.3		Chlorite-Fe	1	NULL	NULL	62.615
K16-408	61.3		Aspectral	1	NULL	NULL	86.936
K16-408	64.3		Chlorite-FeMg	0.848	Phengite	0.152	79.835
K16-408	72.2		Chlorite-FeMg	0.705	Muscovite	0.295	222.74
K16-408	75.7		Chlorite-Fe	1	NULL	NULL	95.806
K16-408	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-408	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	952.44
K16-408	87.28		Phengite	0.407	Chlorite-FeMg	0.394	80.757
K16-408	92.27		Chlorite-FeMg	0.825	Phengite	0.175	58.112
K16-408	97.63		Chlorite-FeMg	1	NULL	NULL	101.76
K16-408	102.39		Aspectral	1	NULL	NULL	154.22
K16-408	108.35		Aspectral	1	NULL	NULL	47.057
K16-408	113.85		Aspectral	1	NULL	NULL	53.423
K16-408	119.05		Aspectral	1	NULL	NULL	61.096
K16-408	130.65		Chlorite-FeMg	0.637	Muscovite	0.363	138.37
K16-408	133.42		Chlorite-FeMg	0.65	Muscovite	0.35	95.045
K16-408	136.08		Chlorite-FeMg	0.689	Muscovite	0.311	138.47
K16-408	138.2		Chlorite-FeMg	0.643	Phengite	0.357	115.36
K16-408	142.76		Siderite	0.743	Montmorillonite	0.257	25.262
K16-408	0	WHITE REFERENCE	Alunite-NH	1	NULL	NULL	806.2
K16-408	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	997.71
K16-408	145.79		Phengite	1	NULL	NULL	64.657
K16-408	147.14		Chlorite-FeMg	0.634	Phengite	0.366	48.728
K16-408	146.93		Chlorite-FeMg	0.636	Phengite	0.364	169.71
K16-408	150.45		Chlorite-FeMg	0.61	Phengite	0.39	163.61
K16-408	154.88		Chlorite-FeMg	0.689	Phengite	0.311	62.792

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-408	157.34		Chlorite-FeMg	0.832	Phengite	0.168	94.224
K16-408	160.35		Chlorite-FeMg	0.606	Muscovite	0.394	69.945
K16-408	161.88		Chlorite-FeMg	0.543	Phengite	0.457	172
K16-408	166.85		Chlorite-FeMg	0.439	Kaolinite-WX	0.372	108.14
K16-408	171.28		Chlorite-FeMg	0.736	Kaolinite-WX	0.264	148.14
K16-408	176.41		Kaolinite-WX	0.556	Phengite	0.283	65.644
K16-408	179.74		Phengite	1	NULL	NULL	91.213
K16-408	184.81		Phengite	0.482	Siderite	0.312	46.669
K16-408	0	WHITE REFERENCE	Diaspore	0.362	Alunite-NH	0.332	962.08
K16-408	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-408	188.94		Phengite	1	NULL	NULL	52.099
K16-408	191.9		Phengite	1	NULL	NULL	86.051
K16-408	194.43		Phengite	1	NULL	NULL	64.264
K16-408	197.66		Muscovitic Illite	1	NULL	NULL	112.56
K16-408	200.95		Phengite	1	NULL	NULL	177.94
K16-408	203.95		Phengite	1	NULL	NULL	65.811
K16-408	207.08		Phengite	1	NULL	NULL	86.712
K16-408	210.05		Phengite	0.793	Kaolinite-WX	0.207	65.013
K16-408	215.79		Phengite	1	NULL	NULL	83.019
K16-408	218.93		Phengite	1	NULL	NULL	76.017
K16-408	223.45		Phengite	1	NULL	NULL	138.28
K16-408	224.84		Phengite	1	NULL	NULL	136.88
K16-408	227.74		Phengite	1	NULL	NULL	113.84
K16-408	232.32		Phengite	1	NULL	NULL	123.59
K16-408	235.29		Phengite	0.822	Calcite	0.178	95.991
K16-408	238.65		Phengite	1	NULL	NULL	122.32
K16-408	243.2		Phengite	1	NULL	NULL	115.51
K16-408	245.87		Phengite	1	NULL	NULL	66.335
K16-408	247.77		PhengiticIllite	0.672	Kaolinite-WX	0.328	77.201

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-408	249.65		PhengiticIllite	1	NULL	NULL	113.83
K16-408	251.38		Phengite	1	NULL	NULL	124.15
K16-408	254.93		Phengite	1	NULL	NULL	83.547
K16-408	256.87		Phengite	1	NULL	NULL	108.57
K16-408	259.55		Phengite	1	NULL	NULL	123.5
K16-408	262.57		Phengite	1	NULL	NULL	163.05
K16-408	265.5		Phengite	1	NULL	NULL	142.26
K16-408	268.29		Phengite	1	NULL	NULL	119.28
K16-408	273.41		Phengite	1	NULL	NULL	136.51
K16-408	276.85		Phengite	1	NULL	NULL	122.19
K16-408	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-408	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-408	279.24		Phengite	0.607	Chlorite-FeMg	0.393	207.02
K16-408	282.6		Phengite	1	NULL	NULL	174.35
K16-408	285.88		Phengite	1	NULL	NULL	124.61
K16-408	288.11		Phengite	1	NULL	NULL	209.49
K16-408	288.75		Phengite	1	NULL	NULL	127.73
K16-408	291.37		Phengite	1	NULL	NULL	241.08
K16-408	294.51		Phengite	1	NULL	NULL	241.02
K16-408	297.31		Phengite	1	NULL	NULL	132.87
K16-408	300.73		Phengite	1	NULL	NULL	132.68
K16-408	303.88		Phengite	0.542	Chlorite-Mg	0.458	74.876
K16-408	306.85		PhengiticIllite	1	NULL	NULL	158.54
K16-408	309.74		Phengite	1	NULL	NULL	114.13
K16-408	312.38		Phengite	0.759	Chlorite-FeMg	0.241	138.22
K16-408	315.41		Phengite	1	NULL	NULL	107.16
K16-408	318.39		Phengite	1	NULL	NULL	152.28
K16-408	321.3		Phengite	1	NULL	NULL	143.41
K16-408	325.54		Phengite	1	NULL	NULL	127.23

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-408	328.8		Phengite	1	NULL	NULL	93.589
K16-408	331.69		PhengiticIllite	0.523	Kaolinite-WX	0.277	50.776
K16-408	334.9		Phengite	1	NULL	NULL	143.32
K16-408	338.5		Phengite	1	NULL	NULL	221.6
K16-408	341.4		Phengite	0.666	Chlorite-FeMg	0.334	180.61
K16-408	342.48		Chlorite-FeMg	0.531	Phengite	0.469	113.68
K16-408	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-408	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	802.76
K16-408	344.9		Phengite	1	NULL	NULL	145.38
K16-408	348.6		PhengiticIllite	1	NULL	NULL	129.76
K16-408	354.6		PhengiticIllite	1	NULL	NULL	173.15
K16-408	357.6		Chlorite-FeMg	0.623	Siderite	0.377	76.876
K16-408	363.9		Phengite	1	NULL	NULL	185.55
K16-408	367.21		PhengiticIllite	1	NULL	NULL	150.63
K16-408	372.35		Phengite	1	NULL	NULL	102.85
K16-408	378.33		Phengite	0.745	Gypsum	0.255	97.262
K16-408	382.34		Phengite	1	NULL	NULL	252.28
K16-408	386.52		Muscovite	1	NULL	NULL	214.27
K16-408	395.87		Muscovite	1	NULL	NULL	50.682
K16-408	399.59		Muscovite	1	NULL	NULL	93.041
K16-408	403.92		Phengite	1	NULL	NULL	98.853
K16-408	418.07		Phengite	1	NULL	NULL	76.322
K16-408	424.59		Muscovitic Illite	0.778	Montmorillonite	0.222	57.745
K16-408	435		Muscovite	1	NULL	NULL	116.65
K16-408	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-408	443.17		Phengite	0.801	Diaspore	0.199	299.57
K16-408	444.16		Muscovite	0.58	Kaolinite-WX	0.42	217.6
K16-408	449.41		Phengite	1	NULL	NULL	161.32
K16-408	451.5		Phengite	1	NULL	NULL	273.34

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-408	454.76		Muscovite	1	NULL	NULL	285.44
K16-408	456.95		Muscovite	1	NULL	NULL	181.21
K16-408	463.05		Phengite	1	NULL	NULL	347.09
K16-408	466.4		Muscovite	1	NULL	NULL	236.65
K16-408	471.68		Phengite	1	NULL	NULL	181.12
K16-408	474.78		Muscovite	1	NULL	NULL	217.95
K16-408	477.55		Phengite	1	NULL	NULL	154.42
K16-408	481.74		Phengite	1	NULL	NULL	159.39
K16-408	484.02		Phengite	0.849	Diaspore	0.151	153.72
K16-408	487.26		Muscovite	0.839	Montmorillonite	0.161	194.94
K16-408	490.56		Muscovite	0.849	Montmorillonite	0.151	200.29
K16-408	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-409	4.4		Phengite	1	NULL	NULL	49.077
K16-409	4.4		Phengite	1	NULL	NULL	61.544
K16-409	4.4		Phengite	1	NULL	NULL	61.081
K16-409	7.4		Phengite	0.813	Ankerite	0.187	84.096
K16-409	7.4		Phengite	0.847	Ankerite	0.153	90.653
K16-409	7.4		Phengite	0.837	Ankerite	0.163	83.484
K16-409	10.4		Muscovite	1	NULL	NULL	96.58
K16-409	10.4		Muscovite	1	NULL	NULL	107.49
K16-409	10.4		Muscovite	1	NULL	NULL	105.73
K16-409	13.4		Phengite	1	NULL	NULL	88.101
K16-409	13.4		Phengite	1	NULL	NULL	89.671
K16-409	13.4		Phengite	1	NULL	NULL	90.757
K16-409	16.4		Phengite	1	NULL	NULL	75.982
K16-409	16.4		Phengite	1	NULL	NULL	78.319
K16-409	16.4		Phengite	1	NULL	NULL	87.512
K16-409	19.4		Phengite	1	NULL	NULL	61.831
K16-409	19.4		Phengite	1	NULL	NULL	59.947

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-409	19.4		Phengite	1	NULL	NULL	55.706
K16-409	22.4		Phengite	1	NULL	NULL	77.087
K16-409	22.4		Phengite	1	NULL	NULL	101.21
K16-409	22.4		Phengite	1	NULL	NULL	83.222
K16-409	25.4		Phengite	1	NULL	NULL	46.558
K16-409	25.4		Phengite	1	NULL	NULL	42.796
K16-409	25.4		Phengite	1	NULL	NULL	49.407
K16-409	28.4		Aspectral	1	NULL	NULL	25.007
K16-409	28.4		Aspectral	1	NULL	NULL	18.581
K16-409	28.4		Aspectral	1	NULL	NULL	27.234
K16-409	31.4		Siderite	1	NULL	NULL	45.716
K16-409	31.4		Epidote	1	NULL	NULL	28.753
K16-409	31.4		Epidote	1	NULL	NULL	30.962
K16-409	34.4		Phengite	1	NULL	NULL	157.51
K16-409	34.4		Phengite	1	NULL	NULL	152.01
K16-409	34.4		Phengite	1	NULL	NULL	142.35
K16-409	39.4		Phengite	1	NULL	NULL	103.97
K16-409	39.4		Phengite	1	NULL	NULL	109.08
K16-409	39.4		Phengite	1	NULL	NULL	103.67
K16-409	44.4		Phengite	1	NULL	NULL	94.892
K16-409	44.4		Phengite	1	NULL	NULL	112.16
K16-409	44.4		Phengite	1	NULL	NULL	127.26
K16-409	49.4		Phengite	0.752	Calcite	0.248	223.1
K16-409	49.4		Phengite	0.716	Ankerite	0.284	210.47
K16-409	49.4		Phengite	0.724	Ankerite	0.276	204.47
K16-409	54.4		Phengite	0.835	Zoisite	0.165	121.75
K16-409	54.4		Phengite	0.751	Calcite	0.249	106.89
K16-409	54.4		Phengite	0.844	Alunite-NH	0.156	120.62
K16-409	59.4		Phengite	1	NULL	NULL	45.161

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-409	59.4		Phengite	1	NULL	NULL	49.835
K16-409	59.4		Phengite	1	NULL	NULL	40.266
K16-409	64.4		Phengite	1	NULL	NULL	200.18
K16-409	64.4		Phengite	1	NULL	NULL	195.61
K16-409	64.4		Phengite	1	NULL	NULL	189.78
K16-409	69.4		Phengite	1	NULL	NULL	187.27
K16-409	69.4		Phengite	1	NULL	NULL	180.45
K16-409	69.4		Phengite	1	NULL	NULL	206.14
K16-409	74.4		Phengite	1	NULL	NULL	80.824
K16-409	74.4		Phengite	1	NULL	NULL	79.87
K16-409	74.4		Phengite	1	NULL	NULL	79.967
K16-409	79.4		Chlorite-FeMg	0.695	Phengite	0.305	50.721
K16-409	79.4		Chlorite-FeMg	0.527	Phengite	0.314	36.614
K16-409	79.4		Chlorite-FeMg	0.693	Phengite	0.307	54.327
K16-409	84.4		Chlorite-FeMg	0.804	Phlogopite	0.196	144.91
K16-409	84.4		Chlorite-FeMg	0.77	Phlogopite	0.23	111.18
K16-409	84.4		Chlorite-FeMg	0.794	Tourmaline-Fe	0.206	156.61
K16-409	89.4		Muscovite	0.529	Chlorite-FeMg	0.471	72.476
K16-409	89.4		Chlorite-FeMg	0.52	Muscovite	0.48	75.539
K16-409	89.4		Chlorite-FeMg	0.612	Muscovite	0.388	70.641
K16-409	94.4		Phengite	0.634	Phlogopite	0.366	69.506
K16-409	94.4		Muscovite	0.595	Phlogopite	0.405	83.928
K16-409	94.4		Chlorite-FeMg	0.51	Muscovite	0.49	72.396
K16-409	99.4		Muscovite	0.803	Chlorite-FeMg	0.197	101.31
K16-409	99.4		Muscovite	0.801	Chlorite-FeMg	0.199	129.27
K16-409	99.4		Muscovite	1	NULL	NULL	152.78
K16-409	104.4		Phengite	1	NULL	NULL	61.049
K16-409	104.4		Phengite	1	NULL	NULL	77.063
K16-409	104.4		Phengite	1	NULL	NULL	70.723

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-409	109.4		Phengite	1	NULL	NULL	72.427
K16-409	109.4		Phengite	1	NULL	NULL	91.501
K16-409	109.4		Phengite	1	NULL	NULL	97.844
K16-409	114.4		Phengite	1	NULL	NULL	55.26
K16-409	114.4		Phengite	1	NULL	NULL	67.117
K16-409	114.4		Phengite	1	NULL	NULL	69.469
K16-409	119.4		Phengite	0.602	Chlorite-FeMg	0.398	132.98
K16-409	119.4		Phengite	0.603	Chlorite-FeMg	0.397	127.18
K16-409	119.4		Phengite	0.694	Chlorite-FeMg	0.306	167.29
K16-409	124.4		Phengite	1	NULL	NULL	48.685
K16-409	124.4		Phengite	1	NULL	NULL	90.666
K16-409	124.4		Phengite	1	NULL	NULL	101.91
K16-409	129.4		Phengite	1	NULL	NULL	53.27
K16-409	129.4		Phengite	1	NULL	NULL	73.394
K16-409	129.4		Phengite	1	NULL	NULL	54.822
K16-409	134.4		Phengite	1	NULL	NULL	55.41
K16-409	134.4		Phengite	1	NULL	NULL	58.396
K16-409	134.4		Phengite	1	NULL	NULL	61.165
K16-409	139.4		Phengite	1	NULL	NULL	61.915
K16-409	139.4		Phengite	0.758	Kaolinite-PX	0.242	51.994
K16-409	139.4		Phengite	0.837	Kaolinite-PX	0.163	55.695
K16-409	144.4		Phengite	1	NULL	NULL	108.64
K16-409	144.4		Phengite	1	NULL	NULL	115.36
K16-409	144.4		Phengite	1	NULL	NULL	123.23
K16-409	147.4		Phengite	1	NULL	NULL	113.53
K16-409	147.4		Phengite	1	NULL	NULL	102.71
K16-409	147.4		Phengite	1	NULL	NULL	116.38
K16-409	150.4		Phengite	1	NULL	NULL	113.2
K16-409	150.4		Phengite	1	NULL	NULL	113.66

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-409	150.4		Phengite	1	NULL	NULL	93.076
K16-409	153.4		Muscovite	1	NULL	NULL	97.845
K16-409	153.4		Muscovite	1	NULL	NULL	121.35
K16-409	153.4		Muscovite	1	NULL	NULL	98.544
K16-409	156.4		Muscovite	1	NULL	NULL	99.173
K16-409	156.4		Muscovite	1	NULL	NULL	112.92
K16-409	156.4		Muscovite	1	NULL	NULL	106.29
K16-409	159.4		Muscovite	1	NULL	NULL	173.94
K16-409	159.4		Muscovite	1	NULL	NULL	189.46
K16-409	159.4		Muscovite	1	NULL	NULL	137.94
K16-409	162.4		Muscovite	1	NULL	NULL	114.73
K16-409	162.4		Muscovite	1	NULL	NULL	108.61
K16-409	162.4		Muscovite	1	NULL	NULL	119.01
K16-409	165.4		Muscovite	1	NULL	NULL	169.67
K16-409	165.4		Muscovite	1	NULL	NULL	183.47
K16-409	165.4		Muscovite	1	NULL	NULL	170.32
K16-409	168.4		Muscovite	1	NULL	NULL	156.25
K16-409	168.4		Muscovite	1	NULL	NULL	162.46
K16-409	168.4		Muscovite	1	NULL	NULL	169.09
K16-409	171.4		Muscovite	1	NULL	NULL	135.78
K16-409	171.4		Muscovite	1	NULL	NULL	128.98
K16-409	171.4		Muscovite	1	NULL	NULL	143.93
K16-409	174.4		Muscovite	1	NULL	NULL	154.19
K16-409	174.4		Muscovite	1	NULL	NULL	152.05
K16-409	174.4		Muscovite	1	NULL	NULL	180.04
K16-409	177.4		Muscovite	1	NULL	NULL	150.82
K16-409	177.4		Muscovite	1	NULL	NULL	141.33
K16-409	177.4		Muscovite	1	NULL	NULL	147.95
K16-409	180.4		Muscovite	1	NULL	NULL	118.44

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-409	180.4		Muscovite	1	NULL	NULL	129.12
K16-409	180.4		Muscovite	1	NULL	NULL	126.46
K16-409	183.4		Aspectral	1	NULL	NULL	70.741
K16-409	183.4		Aspectral	1	NULL	NULL	54.506
K16-409	183.4		Aspectral	1	NULL	NULL	68.51
K16-409	186.4		Muscovite	1	NULL	NULL	252.46
K16-409	186.4		Muscovite	1	NULL	NULL	275.73
K16-409	186.4		Muscovite	1	NULL	NULL	232.24
K16-409	189.4		Muscovite	1	NULL	NULL	51.741
K16-409	189.4		Muscovite	1	NULL	NULL	60.806
K16-409	189.4		Muscovite	1	NULL	NULL	66.486
K16-409	192.4		Muscovite	1	NULL	NULL	93.032
K16-409	192.4		Muscovite	1	NULL	NULL	90.31
K16-409	192.4		Muscovite	1	NULL	NULL	88.88
K16-409	195.4		Muscovite	1	NULL	NULL	77.402
K16-409	195.4		Muscovite	1	NULL	NULL	75.168
K16-409	195.4		Muscovite	1	NULL	NULL	89.638
K16-409	198.4		Muscovite	1	NULL	NULL	72.977
K16-409	198.4		Muscovite	1	NULL	NULL	79.485
K16-409	198.4		Muscovite	1	NULL	NULL	107.68
K16-409	203.4		Muscovite	1	NULL	NULL	120.11
K16-409	203.4		Muscovite	1	NULL	NULL	97.835
K16-409	203.4		Muscovite	1	NULL	NULL	91.306
K16-409	208.4		Muscovite	1	NULL	NULL	88
K16-409	208.4		Muscovite	1	NULL	NULL	100.05
K16-409	208.4		Muscovite	1	NULL	NULL	105.59
K16-409	213.4		Muscovite	1	NULL	NULL	75.558
K16-409	213.4		Muscovite	1	NULL	NULL	84.805
K16-409	213.4		Muscovite	1	NULL	NULL	91.978

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-409	218.4		Muscovite	1	NULL	NULL	89.465
K16-409	218.4		Muscovite	1	NULL	NULL	94.123
K16-409	218.4		Muscovite	1	NULL	NULL	107.69
K16-409	223.4		Muscovite	1	NULL	NULL	72.126
K16-409	223.4		Muscovite	1	NULL	NULL	74.433
K16-409	223.4		Muscovite	1	NULL	NULL	77.276
K16-409	228.4		Muscovite	1	NULL	NULL	181.23
K16-409	228.4		Muscovite	1	NULL	NULL	163.45
K16-409	228.4		Muscovite	1	NULL	NULL	178.34
K16-409	233.4		Muscovite	1	NULL	NULL	128.49
K16-409	233.4		Muscovite	1	NULL	NULL	113.35
K16-409	233.4		Muscovite	1	NULL	NULL	144.7
K16-409	238.4		Muscovite	1	NULL	NULL	79.536
K16-409	238.4		Muscovite	1	NULL	NULL	83.791
K16-409	238.4		Muscovite	1	NULL	NULL	75.337
K16-409	243.4		Phengite	1	NULL	NULL	97.452
K16-409	243.4		Phengite	1	NULL	NULL	113.65
K16-409	243.4		Phengite	1	NULL	NULL	118.06
K16-409	248.4		Chlorite-FeMg	0.448	MuscoviticIllite	0.291	48.573
K16-409	248.4		Chlorite-FeMg	0.469	MuscoviticIllite	0.275	51.301
K16-409	248.4		Chlorite-FeMg	0.426	Kaolinite-WX	0.291	45.843
K16-409	253.4		Phengite	1	NULL	NULL	57.692
K16-409	253.4		Phengite	1	NULL	NULL	76.212
K16-409	253.4		Phengite	1	NULL	NULL	62.604
K16-409	258.4		Phengite	1	NULL	NULL	43.961
K16-409	258.4		Phengite	1	NULL	NULL	56.52
K16-409	258.4		Phengite	1	NULL	NULL	45.558
K16-409	263.4		Phengite	1	NULL	NULL	96.994
K16-409	263.4		Phengite	1	NULL	NULL	92.84

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-409	263.4		Phengite	1	NULL	NULL	99.276
K16-409	268.4		Phengite	1	NULL	NULL	48.413
K16-409	268.4		Phengite	1	NULL	NULL	49.368
K16-409	268.4		Phengite	1	NULL	NULL	46.865
K16-409	273.4		Phengite	1	NULL	NULL	103.15
K16-409	273.4		Phengite	1	NULL	NULL	99.714
K16-409	273.4		Phengite	1	NULL	NULL	92.879
K16-409	278.4		Phengite	1	NULL	NULL	85.356
K16-409	278.4		Phengite	1	NULL	NULL	79.213
K16-409	278.4		Phengite	1	NULL	NULL	96.674
K16-409	283.4		Phengite	1	NULL	NULL	52.627
K16-409	283.4		Phengite	1	NULL	NULL	40.031
K16-409	283.4		Phengite	1	NULL	NULL	46.756
K16-409	288.4		Phengite	1	NULL	NULL	90.251
K16-409	288.4		Phengite	1	NULL	NULL	102.24
K16-409	288.4		Phengite	1	NULL	NULL	94.44
K16-409	293.4		Phengite	1	NULL	NULL	96.483
K16-409	293.4		Phengite	1	NULL	NULL	104.54
K16-409	293.4		Phengite	1	NULL	NULL	102.14
K16-409	298.4		Phengite	1	NULL	NULL	89.121
K16-409	298.4		Phengite	1	NULL	NULL	93.974
K16-409	298.4		Phengite	1	NULL	NULL	110.56
K16-414	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-414	8.94		Chlorite-Fe	0.844	Ankerite	0.156	150.26
K16-414	12.42		Chlorite-FeMg	1	NULL	NULL	140.34
K16-414	15.23		Chlorite-FeMg	0.503	PhengiticIllite	0.347	40.669
K16-414	22.92		Chlorite-FeMg	1	NULL	NULL	86.499
K16-414	25.81		Chlorite-FeMg	1	NULL	NULL	106.12
K16-414	28.62		Chlorite-FeMg	1	NULL	NULL	185.21

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-414	31.95		Chlorite-FeMg	0.833	Phengite	0.167	146.74
K16-414	34.72		Chlorite-FeMg	0.63	Phengite	0.37	67.483
K16-414	39.34		Chlorite-FeMg	0.565	Phengite	0.435	82.215
K16-414	41.97		Chlorite-FeMg	0.525	Phengite	0.475	69.537
K16-414	43.88		Chlorite-FeMg	0.612	Phengite	0.388	114.3
K16-414	45.36		Chlorite-FeMg	0.722	Phengite	0.278	104.63
K16-414	50.17		Phengite	0.511	Chlorite-FeMg	0.489	178.07
K16-414	51.96		Phengite	0.715	Chlorite-FeMg	0.285	99.485
K16-414	54.97		Phengite	1	NULL	NULL	133.38
K16-414	57.67		Chlorite-FeMg	0.804	Kaolinite-WX	0.196	111.36
K16-414	63.03		Chlorite-FeMg	0.639	Kaolinite-WX	0.361	116.25
K16-414	63.68		Chlorite-FeMg	0.845	Kaolinite-WX	0.155	157.39
K16-414	66.82		Phengite	0.659	Dickite	0.178	145.33
K16-414	69.82		Chlorite-FeMg	0.534	Phengite	0.466	92.865
K16-414	72.54		Chlorite-Fe	0.808	Phengite	0.192	66.088
K16-414	86.26		Chlorite-FeMg	1	NULL	NULL	87.777
K16-414	88.3		Chlorite-FeMg	0.546	Phengite	0.454	58.715
K16-414	91.88		Chlorite-FeMg	0.806	Phengite	0.194	64.173
K16-414	97.32		Chlorite-FeMg	0.508	Phengite	0.492	133.69
K16-414	100.49		Chlorite-FeMg	0.701	Phengite	0.299	66.973
K16-414	103.35		Chlorite-FeMg	1	NULL	NULL	98.208
K16-414	106.25		Chlorite-FeMg	0.782	Phengite	0.218	111.9
K16-414	109.71		Chlorite-FeMg	1	NULL	NULL	131.77
K16-414	114.17		Chlorite-FeMg	0.835	Muscovite	0.165	52.447
K16-414	116.7		Chlorite-FeMg	0.659	Phengite	0.341	98.784
K16-414	126.08		Chlorite-FeMg	1	NULL	NULL	127.33
K16-414	140.31		Phengite	0.623	Chlorite-FeMg	0.377	123.49
K16-414	140.4		Chlorite-FeMg	0.592	Phengite	0.408	172.96
K16-414	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-414	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-414	147.06		Chlorite-FeMg	0.801	Phengite	0.199	81.959
K16-414	151.74		Phengite	0.517	Chlorite-FeMg	0.483	182.95
K16-414	156.02		Phengite	0.49	Chlorite-FeMg	0.342	88.008
K16-414	158.85		Chlorite-FeMg	0.501	Phengite	0.499	133.35
K16-414	163.71		Aspectral	1	NULL	NULL	78.622
K16-414	164.12		Chlorite-Fe	1	NULL	NULL	198.62
K16-414	170.3		Chlorite-FeMg	0.689	Phengite	0.311	120.79
K16-414	172.4		Chlorite-FeMg	0.6	Phengite	0.4	111
K16-414	176.04		Muscovite	0.548	Chlorite-FeMg	0.452	112.12
K16-414	183.19		Phengite	0.646	Chlorite-FeMg	0.354	123.17
K16-414	186.9		Phengite	0.537	Chlorite-Fe	0.463	77.55
K16-414	193.49		Chlorite-FeMg	0.769	Muscovite	0.231	178.14
K16-414	196.71		Phengite	0.686	Chlorite-FeMg	0.314	153.06
K16-414	200.19		Siderite	0.417	Phengite	0.397	53.655
K16-414	202.26		Siderite	0.585	Phengite	0.415	37.046
K16-414	209.24		Phengite	0.504	Chlorite-Fe	0.496	43.886
K16-414	213.61		Phengite	0.591	Chlorite-Mg	0.409	52.47
K16-414	217.14		Aspectral	1	NULL	NULL	108.77
K16-414	220.65		Phengite	1	NULL	NULL	106
K16-414	223.85		Chlorite-FeMg	0.49	Phengite	0.357	107.15
K16-414	228.2		Chlorite-FeMg	1	NULL	NULL	191.8
K16-414	238.81		Phengite	0.754	Dickite	0.246	41.939
K16-414	239.74		Phengite	1	NULL	NULL	115.29
K16-414	241.69		Phengite	0.841	Chlorite-FeMg	0.159	110.79
K16-414	245.07		Chlorite-FeMg	1	NULL	NULL	175.58
K16-414	248.31		Phengite	0.584	Chlorite-FeMg	0.416	167.14
K16-414	251.81		Chlorite-FeMg	0.711	Phengite	0.289	137.71
K16-414	255.11		Phengite	0.521	Chlorite-FeMg	0.479	213.31

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-414	258.36		Muscovite	0.557	Chlorite-Fe	0.443	172.18
K16-414	260.78		Chlorite-FeMg	0.641	Phengite	0.359	147.7
K16-414	264.16		Phengite	0.781	Chlorite-FeMg	0.219	84.951
K16-414	267.17		Phengite	1	NULL	NULL	133.74
K16-414	270.78		Phengite	1	NULL	NULL	100.53
K16-414	271.34		Phengite	1	NULL	NULL	95.047
K16-414	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-414	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	930.74
K16-414	268.1		Phengite	1	NULL	NULL	174.83
K16-414	271.04		Phengite	1	NULL	NULL	88.231
K16-414	273.64		Phengite	0.829	Ankerite	0.171	78.654
K16-414	281		Phengite	1	NULL	NULL	101.35
K16-414	283.21		Phengite	1	NULL	NULL	116.21
K16-414	284.28		Phengite	1	NULL	NULL	105.77
K16-414	285.25		Phengite	1	NULL	NULL	115.95
K16-414	288.8		Phengite	1	NULL	NULL	148.75
K16-414	292.89		Phengite	1	NULL	NULL	259.81
K16-414	294.08		Phengite	1	NULL	NULL	106.5
K16-414	295.13		Phengite	0.699	Chlorite-FeMg	0.301	184.32
K16-414	297.2		Phengite	1	NULL	NULL	162.49
K16-414	300.76		Muscovite	0.714	Calcite	0.286	117.78
K16-414	302.83		Phengite	1	NULL	NULL	115.54
K16-414	304.92		Phengite	1	NULL	NULL	113.08
K16-414	307.87		Phengite	0.785	Siderite	0.215	80.17
K16-414	311.19		Phengite	1	NULL	NULL	119.38
K16-414	314.3		Phengite	1	NULL	NULL	93.035
K16-414	316.23		Phengite	1	NULL	NULL	128.02
K16-414	319.19		Muscovite	1	NULL	NULL	119.62
K16-414	322.18		Muscovite	1	NULL	NULL	114.3

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-414	323.83		Phengite	1	NULL	NULL	103.63
K16-414	326.11		Phengite	1	NULL	NULL	146.8
K16-414	329.09		Phengite	0.606	Kaolinite-PX	0.394	156.55
K16-414	335.32		Phengite	1	NULL	NULL	99.645
K16-414	337.38		Phengite	1	NULL	NULL	87.05
K16-414	339.92		Phengite	1	NULL	NULL	95.188
K16-414	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-415	6.3		Phengite	1	NULL	NULL	60.121
K16-415	11.3		Phengite	1	NULL	NULL	69.415
K16-415	16.3		Phengite	1	NULL	NULL	31.079
K16-415	19		Phengite	1	NULL	NULL	203.4
K16-415	20.3		Phengite	1	NULL	NULL	157.43
K16-415	23.1		Phengite	1	NULL	NULL	137.18
K16-415	26.3		Phengite	1	NULL	NULL	161.06
K16-415	27.3		Phengite	1	NULL	NULL	138.59
K16-415	29.1		Phengite	1	NULL	NULL	159.06
K16-415	30.3		Phengite	1	NULL	NULL	197.23
K16-415	33.3		Phengite	1	NULL	NULL	156.17
K16-415	36.3		Phengite	1	NULL	NULL	43.334
K16-415	39.4		Phengite	1	NULL	NULL	69.828
K16-415	42.3		Phengite	1	NULL	NULL	160.45
K16-415	45.3		Phengite	1	NULL	NULL	77.085
K16-415	48.4		Phengite	1	NULL	NULL	194.74
K16-415	51.4		Phengite	1	NULL	NULL	77.387
K16-415	54.3		Phengite	1	NULL	NULL	53.539
K16-415	57.2		Phengite	1	NULL	NULL	107
K16-415	60.3		Phengite	1	NULL	NULL	109.54
K16-415	63.3		Phengite	1	NULL	NULL	123.6

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	66.3		Phengite	0.794	Siderite	0.206	89.424
K16-415	69.3		Phengite	1	NULL	NULL	82.045
K16-415	70.3		Phengite	1	NULL	NULL	70.687
K16-415	72.3		Phengite	1	NULL	NULL	82.428
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-415	75.3		Phengite	1	NULL	NULL	105.18
K16-415	78.3		Phengite	1	NULL	NULL	106.82
K16-415	81.8		Phengite	1	NULL	NULL	118.8
K16-415	84.2		Phengite	1	NULL	NULL	126.02
K16-415	87.3		Phengite	1	NULL	NULL	111.51
K16-415	90.3		Phengite	1	NULL	NULL	141.92
K16-415	93.7		Phengite	0.799	Alunite-NH	0.201	270.75
K16-415	96.3		Phengite	1	NULL	NULL	141.08
K16-415	99.2		Phengite	0.777	Kaolinite-WX	0.223	60.871
K16-415	102.5		Phengite	1	NULL	NULL	121.34
K16-415	105.5		Phengite	1	NULL	NULL	202.42
K16-415	106.9		Phengite	0.832	Alunite-NH	0.168	153.92
K16-415	108.3		Phengite	1	NULL	NULL	148.9
K16-415	111.3		Phengite	1	NULL	NULL	104.2
K16-415	114.3		Phengite	1	NULL	NULL	47.481
K16-415	117.2		Phengite	1	NULL	NULL	40.906
K16-415	119.2		Phengite	1	NULL	NULL	63.138
K16-415	122.3		Phengite	1	NULL	NULL	52.025
K16-415	125.3		Phengite	1	NULL	NULL	48.799
K16-415	128.3		Phengite	1	NULL	NULL	42.902
K16-415	131.3		Phengite	1	NULL	NULL	123.98
K16-415	133.2		Phengite	1	NULL	NULL	55.336
K16-415	134.3		Phengite	1	NULL	NULL	72.124
K16-415	136.1		Phengite	1	NULL	NULL	192.67

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	920.83
K16-415	139.3		Phengite	1	NULL	NULL	82.788
K16-415	142.4		Phengite	1	NULL	NULL	109.56
K16-415	145.4		Phengite	1	NULL	NULL	87.818
K16-415	148.3		Phengite	1	NULL	NULL	158.97
K16-415	151.3		Phengite	1	NULL	NULL	138.1
K16-415	154.3		Phengite	1	NULL	NULL	117.49
K16-415	157.3		Phengite	1	NULL	NULL	81.964
K16-415	160.3		Phengite	1	NULL	NULL	75.808
K16-415	163.3		Phengite	1	NULL	NULL	170.51
K16-415	166.3		Phengite	1	NULL	NULL	175.67
K16-415	168.3		Phengite	1	NULL	NULL	114.83
K16-415	171.4		Phengite	1	NULL	NULL	83.627
K16-415	174.3		Muscovite	1	NULL	NULL	91.135
K16-415	177.4		Phengite	1	NULL	NULL	149.18
K16-415	180.3		Phengite	1	NULL	NULL	181.61
K16-415	183.3		Muscovite	1	NULL	NULL	88.556
K16-415	186.2		Phengite	1	NULL	NULL	136.38
K16-415	189.3		Phengite	1	NULL	NULL	83.941
K16-415	190.6		Phengite	1	NULL	NULL	151.97
K16-415	192.4		Phengite	1	NULL	NULL	375.71
K16-415	192.5		Phengite	1	NULL	NULL	198.54
K16-415	195.3		Phengite	1	NULL	NULL	106.27
K16-415	198.3		Phengite	1	NULL	NULL	124.74
K16-415	201.3		Phengite	1	NULL	NULL	94.328
K16-415	204.3		Phengite	1	NULL	NULL	111.82
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	995.57
K16-415	207.3		Phengite	1	NULL	NULL	106.42
K16-415	210.3		Phengite	1	NULL	NULL	85.563

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	213.3		Phengite	1	NULL	NULL	100.25
K16-415	216.3		Phengite	1	NULL	NULL	103.1
K16-415	219.3		Phengite	1	NULL	NULL	50.154
K16-415	222.6		Phengite	1	NULL	NULL	91.655
K16-415	225.3		Phengite	1	NULL	NULL	52.301
K16-415	228.3		Phengite	1	NULL	NULL	122.74
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	948.54
K16-415	231.3		Phengite	1	NULL	NULL	116.07
K16-415	234.3		Phengite	1	NULL	NULL	146.38
K16-415	237.2		Phengite	1	NULL	NULL	111.35
K16-415	238.3		Phengite	1	NULL	NULL	106.43
K16-415	240.3		Phengite	1	NULL	NULL	97.277
K16-415	243.1		Phengite	1	NULL	NULL	143.02
K16-415	246.2		Phengite	0.609	Chlorite-Fe	0.227	102.27
K16-415	247.5		Montmorillonite	0.606	Kaolinite-WX	0.394	36.603
K16-415	248.5		Phengite	1	NULL	NULL	127.78
K16-415	251.1		Phengite	1	NULL	NULL	45.924
K16-415	254.3		Phengite	1	NULL	NULL	137.01
K16-415	257.2		Phengite	1	NULL	NULL	124.37
K16-415	260.3		Phengite	1	NULL	NULL	79.778
K16-415	263.3		Phengite	1	NULL	NULL	196.62
K16-415	256.1		Phengite	1	NULL	NULL	92.265
K16-415	266.3		Phengite	1	NULL	NULL	165.35
K16-415	269.3		Phengite	1	NULL	NULL	126.01
K16-415	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-415	272.3		Phengite	1	NULL	NULL	149.73
K16-415	275.3		Phengite	1	NULL	NULL	59.73
K16-415	278.3		Phengite	1	NULL	NULL	92.085
K16-415	281.4		Phengite	1	NULL	NULL	130.71

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	284.3		Phengite	1	NULL	NULL	164.78
K16-415	287.3		Phengite	1	NULL	NULL	148.93
K16-415	288		Phengite	0.792	Kaolinite-PX	0.208	109.49
K16-415	290.2		Phengite	0.643	Kaolinite-WX	0.357	77.066
K16-415	293.3		Phengite	1	NULL	NULL	137.59
K16-415	296.3		Phengite	1	NULL	NULL	175.03
K16-415	299.3		Phengite	1	NULL	NULL	207.25
K16-415	300.9		Phengite	0.763	Calcite	0.237	110.15
K16-415	302.3		Phengite	1	NULL	NULL	253.39
K16-415	305.2		Phengite	1	NULL	NULL	117.7
K16-415	306.2		Phengite	0.742	Kaolinite-PX	0.258	92.042
K16-415	308.3		Phengite	1	NULL	NULL	183.57
K16-415	311.3		Phengite	1	NULL	NULL	135.35
K16-415	314		Kaolinite-WX	0.513	Phengite	0.487	85.783
K16-415	314.4		Phengite	1	NULL	NULL	157.37
K16-415	315		Phengite	1	NULL	NULL	120.05
K16-415	317		Muscovitic Illite	0.633	Kaolinite-WX	0.367	57.437
K16-415	319.8		Phengite	1	NULL	NULL	109.31
K16-415	324.2		Phengite	1	NULL	NULL	112.17
K16-415	325.1		Phengite	1	NULL	NULL	151.1
K16-415	325.3		Phengite	1	NULL	NULL	72.218
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-415	328.3		Phengite	1	NULL	NULL	78.795
K16-415	331.3		Phengite	1	NULL	NULL	158.01
K16-415	332.3		Phengite	1	NULL	NULL	78.284
K16-415	334.3		Phengite	1	NULL	NULL	49.533
K16-415	337.3		Phengite	1	NULL	NULL	104.91
K16-415	340.2		Phengite	1	NULL	NULL	88.022
K16-415	343.3		Phengite	1	NULL	NULL	112.04

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	346.3		Phengite	1	NULL	NULL	80.734
K16-415	349.5		PhengiticIllite	1	NULL	NULL	89.279
K16-415	352.3		PhengiticIllite	0.547	Chlorite-FeMg	0.453	70.414
K16-415	352.4		Phengite	0.593	Chlorite-FeMg	0.407	329.37
K16-415	355.3		Phengite	1	NULL	NULL	173.47
K16-415	358.3		PhengiticIllite	1	NULL	NULL	107.17
K16-415	361.3		Phengite	1	NULL	NULL	215.94
K16-415	364.3		PhengiticIllite	1	NULL	NULL	172.29
K16-415	367.3		PhengiticIllite	1	NULL	NULL	96.611
K16-415	369.8		Phengite	1	NULL	NULL	226.73
K16-415	371.7		Phengite	1	NULL	NULL	104.28
K16-415	374.3		Phengite	1	NULL	NULL	181.38
K16-415	377.2		Phengite	1	NULL	NULL	225.92
K16-415	380.3		Phengite	1	NULL	NULL	339.23
K16-415	381.7		Phengite	1	NULL	NULL	132.7
K16-415	383.3		Phengite	1	NULL	NULL	318.93
K16-415	386.3		Phengite	1	NULL	NULL	312.44
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	942.89
K16-415	389.3		Phengite	0.793	Alunite-NH	0.207	124.59
K16-415	392.4		PhengiticIllite	1	NULL	NULL	213.89
K16-415	395.3		Phengite	1	NULL	NULL	136.16
K16-415	398.3		Phengite	0.58	Chlorite-FeMg	0.42	91.142
K16-415	401		Phengite	1	NULL	NULL	171.54
K16-415	403.1		Phengite	1	NULL	NULL	99.564
K16-415	406.2		Phengite	1	NULL	NULL	127.43
K16-415	409.3		Phengite	1	NULL	NULL	141.68
K16-415	412.3		Phengite	1	NULL	NULL	141.6
K16-415	415.3		Phengite	0.516	Chlorite-Fe	0.484	136.46
K16-415	418.4		Biotite	0.766	Phengite	0.234	366.48

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	421.5		Phengite	0.504	Chlorite-FeMg	0.496	195.71
K16-415	424.3		Phengite	1	NULL	NULL	158.12
K16-415	427.3		Phengite	1	NULL	NULL	221.24
K16-415	430.4		Phengite	1	NULL	NULL	158.08
K16-415	432.9		Chlorite-FeMg	0.736	Biotite	0.264	187.83
K16-415	434.6		Chlorite-FeMg	0.759	Phengite	0.241	195.75
K16-415	437.3		Biotite	0.566	Phengite	0.434	124.09
K16-415	439.3		Phengite	1	NULL	NULL	141.88
K16-415	442.3		Phengite	1	NULL	NULL	125.95
K16-415	447.3		Phengite	1	NULL	NULL	132.32
K16-415	452.3		Phengite	1	NULL	NULL	109.02
K16-415	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-415	457.3		Phengite	1	NULL	NULL	141.09
K16-415	460.2		Phengite	1	NULL	NULL	203.82
K16-415	463.3		Phengite	1	NULL	NULL	184.11
K16-415	466.3		Phengite	1	NULL	NULL	143.82
K16-415	469.3		Phengite	1	NULL	NULL	185.79
K16-415	471.3		Phengite	1	NULL	NULL	128.34
K16-415	493		Chlorite-FeMg	1	NULL	NULL	191.58
K16-415	494.2		Chlorite-Fe	1	NULL	NULL	209.36
K16-415	495.7		Chlorite-FeMg	1	NULL	NULL	88.635
K16-415	497.3		Chlorite-FeMg	1	NULL	NULL	137.14
K16-415	499.1		Phengite	1	NULL	NULL	139.99
K16-415	500.2		Phengite	0.645	Chlorite-FeMg	0.355	177.09
K16-415	503.3		Chlorite-FeMg	0.678	Phengite	0.322	243.9
K16-415	506.3		Phengite	1	NULL	NULL	145.86
K16-415	509.3		Phengite	1	NULL	NULL	126.87
K16-415	512.3		Phengite	0.516	Chlorite-Fe	0.484	216.01
K16-415	515.1		Phengite	0.721	Chlorite-FeMg	0.279	104.06

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	518.2		Phengite	1	NULL	NULL	110.82
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	883.56
K16-415	521.3		Phengite	1	NULL	NULL	101.51
K16-415	524.1		Phengite	1	NULL	NULL	92.755
K16-415	525.5		Phengite	0.706	Chlorite-FeMg	0.294	63.628
K16-415	527.4		Phengite	1	NULL	NULL	160.15
K16-415	529.3		Phengite	1	NULL	NULL	143.86
K16-415	530.2		PhengiticIllite	1	NULL	NULL	115.9
K16-415	530.3		Phengite	1	NULL	NULL	118.21
K16-415	531.7		Phengite	0.765	Chlorite-Fe	0.235	90.036
K16-415	535		Biotite	0.47	Hornblende	0.347	137.76
K16-415	538.3		Chlorite-FeMg	1	NULL	NULL	191.11
K16-415	541.3		Chlorite-FeMg	1	NULL	NULL	173.12
K16-415	544.3		Phengite	0.682	Chlorite-FeMg	0.318	214.11
K16-415	545		Phengite	0.707	Chlorite-FeMg	0.293	686.46
K16-415	547		Phengite	1	NULL	NULL	213.38
K16-415	550.3		Phengite	1	NULL	NULL	217.13
K16-415	553.3		Phengite	0.789	Chlorite-FeMg	0.211	343.72
K16-415	556.3		Biotite	0.819	Hornblende	0.181	295.59
K16-415	559.3		Phengite	1	NULL	NULL	198.63
K16-415	561		Phengite	1	NULL	NULL	148.19
K16-415	562.3		Phengite	0.607	Chlorite-FeMg	0.393	125.83
K16-415	565.3		Phengite	1	NULL	NULL	296.89
K16-415	568.3		Phengite	1	NULL	NULL	116.03
K16-415	570.7		Phengite	0.664	Phlogopite	0.336	391.29
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	797.93
K16-415	573.3		Phengite	1	NULL	NULL	269.69
K16-415	576.3		Phengite	1	NULL	NULL	256.54

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	579.3		Biotite	0.599	Phengite	0.207	241.77
K16-415	582.3		Chlorite-FeMg	0.478	Phengite	0.304	199.35
K16-415	585.5		Biotite	0.732	Phlogopite	0.268	206.9
K16-415	588.3		Biotite	0.525	Phengite	0.475	129.69
K16-415	589.2		Phengite	1	NULL	NULL	233.85
K16-415	591.3		Biotite	0.55	Phlogopite	0.45	319.09
K16-415	594.4		PhengiticIllite	1	NULL	NULL	183.95
K16-415	597.2		PhengiticIllite	1	NULL	NULL	174.78
K16-415	600.3		Phengite	1	NULL	NULL	178.8
K16-415	603.3		Phengite	1	NULL	NULL	217.53
K16-415	606.3		Phengite	1	NULL	NULL	220.77
K16-415	609.2		Phengite	0.674	Epidote	0.326	69.615
K16-415	609.4		Phengite	1	NULL	NULL	155.39
K16-415	612.5		Phengite	1	NULL	NULL	105
K16-415	615.3		Phengite	1	NULL	NULL	164.71
K16-415	618.3		Phengite	1	NULL	NULL	245.97
K16-415	621.3		Phengite	1	NULL	NULL	228.32
K16-415	623.7		PhengiticIllite	1	NULL	NULL	175.06
K16-415	627.3		PhengiticIllite	1	NULL	NULL	155.82
K16-415	632.3		Phengite	1	NULL	NULL	105.47
K16-415	637.3		Phengite	1	NULL	NULL	161.57
K16-415	640.3		Phengite	0.638	Biotite	0.362	407.22
K16-415	643.2		Phengite	0.748	Chlorite-FeMg	0.252	538.38
K16-415	645		Phengite	1	NULL	NULL	174.64
K16-415	646.3		Phengite	0.603	Biotite	0.397	358.55
K16-415	649.1		Phengite	1	NULL	NULL	271.19
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	989.05
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	979.29
K16-415	652.3		Phengite	1	NULL	NULL	115.2

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	655.3		Biotite	0.815	Phlogopite	0.185	79.365
K16-415	658.3		NULL	NULL	NULL	NULL	NULL
K16-415	661.3		Phengite	1	NULL	NULL	99.188
K16-415	664.3		Phengite	1	NULL	NULL	140.96
K16-415	667.4		Phengite	0.819	Calcite	0.181	60.421
K16-415	670.3		Biotite	0.788	Phengite	0.212	507.68
K16-415	673.3		Phengite	1	NULL	NULL	105.67
K16-415	676.5		Biotite	0.673	Hornblende	0.167	211.22
K16-415	679.3		Phengite	1	NULL	NULL	325.41
K16-415	682.3		Biotite	0.645	Chlorite-FeMg	0.355	387.8
K16-415	685.3		Phengite	1	NULL	NULL	345.81
K16-415	688.4		Phengite	1	NULL	NULL	355.63
K16-415	691.3		Phengite	1	NULL	NULL	163.19
K16-415	694.3		Biotite	0.688	Phengite	0.312	260.84
K16-415	697.3		Phengite	1	NULL	NULL	271.75
K16-415	699.1		Biotite	0.683	Phlogopite	0.317	108.66
K16-415	700.3		Phengite	1	NULL	NULL	148.65
K16-415	703.2		Phengite	1	NULL	NULL	89.083
K16-415	706.1		Phengite	1	NULL	NULL	188.29
K16-415	706.3		Biotite	0.588	Phengite	0.227	114.51
K16-415	709.3		Phengite	1	NULL	NULL	167.67
K16-415	712.3		Phengite	1	NULL	NULL	164.27
K16-415	715.3		Phengite	1	NULL	NULL	359.35
K16-415	718.3		Phengite	1	NULL	NULL	352.42
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-415	721.3		Biotite	0.808	Phlogopite	0.192	181.01
K16-415	724.3		Biotite	0.717	Phlogopite	0.283	114.34
K16-415	727.3		Biotite	0.737	Phlogopite	0.263	34.926

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	730.3		Biotite	0.778	Phlogopite	0.222	77.516
K16-415	733.3		Phengite	1	NULL	NULL	104.47
K16-415	736.3		Phengite	1	NULL	NULL	103.89
K16-415	739.3		Biotite	0.552	Phlogopite	0.448	243.73
K16-415	742.3		Phengite	0.602	Phlogopite	0.398	178.62
K16-415	745.3		Phengite	1	NULL	NULL	197.81
K16-415	748.3		Phengite	1	NULL	NULL	254.84
K16-415	751.5		Phlogopite	0.643	Phengite	0.357	254.61
K16-415	752.3		Phengite	1	NULL	NULL	293.49
K16-415	754.3		Biotite	0.595	Phlogopite	0.405	192.59
K16-415	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-415	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-415	757.3		Biotite	0.825	Hornblende	0.175	197.85
K16-415	760.3		Phengite	1	NULL	NULL	207.12
K16-415	763.3		Phengite	1	NULL	NULL	286.18
K16-415	766.3		Phengite	1	NULL	NULL	51.716
K16-415	769.3		Phengite	1	NULL	NULL	73.323
K16-415	772.3		Phengite	1	NULL	NULL	236.13
K16-415	775.1		Biotite	0.555	Phengite	0.285	248.65
K16-415	778.3		Phengite	0.594	Phlogopite	0.406	182.59
K16-415	781.3		Phengite	1	NULL	NULL	161.09
K16-415	784.3		PhengiticIllite	0.666	Phlogopite	0.334	299.74
K16-415	787.3		Biotite	0.652	Phengite	0.348	330.94
K16-415	790.3		Phengite	0.672	Phlogopite	0.328	465.48
K16-415	793.3		Chlorite-FeMg	0.608	Phengite	0.392	143.33
K16-415	796.3		Chlorite-FeMg	0.808	Phlogopite	0.192	138.76
K16-415	799.3		Chlorite-FeMg	0.826	Phlogopite	0.174	120.58
K16-415	802.3		Chlorite-FeMg	1	NULL	NULL	107.63
K16-415	805.3		Chlorite-FeMg	1	NULL	NULL	95.698

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-415	808.3		Chlorite-FeMg	0.488	Biotite	0.352	101.19
K16-415	811.3		Phengite	0.676	Chlorite-FeMg	0.324	115.91
K16-415	814.3		Phengite	0.668	Biotite	0.332	135.81
K16-415	817.3		Biotite	0.523	Phengite	0.477	92.459
K16-415	820.3		Phengite	1	NULL	NULL	42.106
K16-415	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	957.11
K16-415	823.3		Calcite	0.719	Montmorillonite	0.281	31.712
K16-415	826.3		Phengite	0.422	Chlorite-FeMg	0.358	71.535
K16-415	829.3		Aspectral	1	NULL	NULL	115.43
K16-415	832.3		Phengite	0.578	Chlorite-FeMg	0.422	122.64
K16-415	841.3		Chlorite-FeMg	1	NULL	NULL	85.615
K16-415	844.3		Chlorite-FeMg	1	NULL	NULL	119.27
K16-415	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-416	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-416	7.07		Aspectral	1	NULL	NULL	114.42
K16-416	13.02		Aspectral	1	NULL	NULL	76.989
K16-416	15.34		Chlorite-Fe	1	NULL	NULL	154.02
K16-416	21.67		Phengite	0.532	Chlorite-FeMg	0.468	105.07
K16-416	22.89		Chlorite-FeMg	0.798	Phengite	0.202	66.415
K16-416	27.36		Chlorite-FeMg	0.627	Siderite	0.189	56.208
K16-416	30.39		Phengite	0.732	Chlorite-FeMg	0.268	104.89
K16-416	34.82		Chlorite-FeMg	1	NULL	NULL	41.685
K16-416	39.86		Chlorite-FeMg	0.826	Phengite	0.174	79.601
K16-416	41.44		Biotite	0.51	Calcite	0.268	223.55
K16-416	48.44		Chlorite-FeMg	0.849	Phengite	0.151	58.287
K16-416	51.66		Biotite	0.659	Chlorite-Fe	0.341	47.431
K16-416	53.21		Chlorite-FeMg	0.832	Riebeckite	0.168	29.309
K16-416	59.4		Phengite	1	NULL	NULL	99.2

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-416	61.36		Chlorite-FeMg	0.662	Phengite	0.338	83.016
K16-416	63.36		Chlorite-FeMg	1	NULL	NULL	75.135
K16-416	66.74		Chlorite-Fe	0.685	Biotite	0.315	33.185
K16-416	68.97		Chlorite-Fe	1	NULL	NULL	72.514
K16-416	70.82		Chlorite-Fe	0.764	Phengite	0.236	19.317
K16-416	76.02		Siderite	0.436	Chlorite-FeMg	0.406	36.416
K16-416	79.96		Phengite	0.517	Chlorite-FeMg	0.483	157.17
K16-416	81.93		Chlorite-FeMg	1	NULL	NULL	101.72
K16-416	85.2		Chlorite-FeMg	0.804	Phengite	0.196	88.683
K16-416	87.74		Chlorite-FeMg	1	NULL	NULL	155.99
K16-416	90.74		Chlorite-FeMg	0.786	Calcite	0.214	84.771
K16-416	94.93		Chlorite-FeMg	0.63	Biotite	0.207	98.543
K16-416	97.91		Kaolinite-WX	0.613	Ankerite	0.387	62.86
K16-416	101.65		Chlorite-FeMg	0.792	Phengite	0.208	60.563
K16-416	102.9		Chlorite-FeMg	0.843	Phengite	0.157	62.985
K16-416	105.64		Phengite	0.554	Siderite	0.446	77.937
K16-416	107.74		Chlorite-FeMg	0.405	Siderite	0.335	47.368
K16-416	110.75		Chlorite-FeMg	0.513	Phengite	0.487	162.09
K16-416	114.11		Phengite	1	NULL	NULL	57.335
K16-416	118.7		Chlorite-FeMg	1	NULL	NULL	157.1
K16-416	120.1		Phengite	0.579	Chlorite-FeMg	0.421	127.9
K16-416	129.99		Phengite	1	NULL	NULL	160.2
K16-416	137.81		Chlorite-FeMg	0.592	Muscovite	0.408	87.902
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	818.69
K16-416	142.06		Siderite	0.717	Montmorillonite	0.283	34.056
K16-416	147.66		Muscovite	0.564	Ankerite	0.436	37.819
K16-416	151.09		Phengite	0.564	Calcite	0.436	20.155
K16-416	158.59		Muscovite	1	NULL	NULL	41.724

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-416	164.97		Kaolinite-WX	0.61	Calcite	0.39	29.767
K16-416	170.81		Phengite	0.813	Ankerite	0.187	25.035
K16-416	171.47		Phengite	1	NULL	NULL	101.38
K16-416	173.4		Ankerite	0.837	Gypsum	0.163	137
K16-416	175.74		Kaolinite-WX	0.399	Phengite	0.375	28.901
K16-416	178.93		Kaolinite-PX	1	NULL	NULL	52.369
K16-416	182.1		Muscovite	0.615	Kaolinite-PX	0.222	77.181
K16-416	184.24		Kaolinite-WX	0.504	Chlorite-FeMg	0.496	124.09
K16-416	187.88		Phengite	0.511	Siderite	0.489	26.374
K16-416	190.71		Phengite	1	NULL	NULL	168.28
K16-416	193.25		Phengite	0.82	Kaolinite-WX	0.18	109.86
K16-416	200.8		Chlorite-Fe	0.606	Phengite	0.394	161.12
K16-416	198.01		Tourmaline-Fe	1	NULL	NULL	736.65
K16-416	203.05		Phengite	1	NULL	NULL	43.319
K16-416	206.65		Phengite	0.793	Kaolinite-WX	0.207	116.66
K16-416	209.22		Phengite	1	NULL	NULL	51.32
K16-416	211.71		Phengite	1	NULL	NULL	97.389
K16-416	213.95		Phengite	1	NULL	NULL	83.322
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	803.52
K16-416	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-416	216.63		Phengite	1	NULL	NULL	111.98
K16-416	219.82		Muscovite	1	NULL	NULL	88.813
K16-416	222.36		Chlorite-Fe	0.559	Muscovite	0.441	152.58
K16-416	223.23		Phengite	0.59	Chlorite-Fe	0.41	137.05
K16-416	226.8		Phengite	0.635	Chlorite-FeMg	0.365	103.17
K16-416	229.37		Phengite	0.841	Chlorite-FeMg	0.159	139.33
K16-416	232.29		Phengite	1	NULL	NULL	88.043
K16-416	235.9		Chlorite-Fe	0.657	Siderite	0.178	126.7
K16-416	236.7		Chlorite-Fe	0.531	Phengite	0.318	100.02

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-416	239.71		Phengite	1	NULL	NULL	100.85
K16-416	242.56		Phengite	0.7	Chlorite-FeMg	0.3	94.344
K16-416	246.32		Phengite	1	NULL	NULL	91.597
K16-416	249.73		Phengite	1	NULL	NULL	72.14
K16-416	255.6		Phengite	1	NULL	NULL	71.238
K16-416	258.61		Chlorite-FeMg	0.744	Phengite	0.256	138.3
K16-416	259.63		Chlorite-FeMg	1	NULL	NULL	122.76
K16-416	263.14		Phengite	1	NULL	NULL	178.57
K16-416	263.97		Phengite	1	NULL	NULL	190.1
K16-416	264.72		Phengite	1	NULL	NULL	210.52
K16-416	265.86		Phengite	0.658	Chlorite-FeMg	0.342	225.42
K16-416	269.06		Phengite	1	NULL	NULL	101.28
K16-416	270.69		Phengite	1	NULL	NULL	121.52
K16-416	273.6		Phengite	1	NULL	NULL	163.76
K16-416	276.36		Phengite	1	NULL	NULL	147.9
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	974.14
K16-416	279.49		Phengite	0.635	Chlorite-FeMg	0.365	124.87
K16-416	282.77		Phengite	1	NULL	NULL	156.73
K16-416	285.74		Phengite	1	NULL	NULL	179.8
K16-416	288.1		Phengite	1	NULL	NULL	144.55
K16-416	396.64		PhengiticIllite	1	NULL	NULL	160.51
K16-416	300.35		Phengite	1	NULL	NULL	241.27
K16-416	301.96		PhengiticIllite	1	NULL	NULL	191.22
K16-416	311.75		Phengite	1	NULL	NULL	145.34
K16-416	314.96		Phengite	1	NULL	NULL	132.42
K16-416	318.32		Phengite	1	NULL	NULL	142.07
K16-416	319.65		Phengite	1	NULL	NULL	153.58
K16-416	321.41		Phengite	1	NULL	NULL	122.09

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-416	322.95		Phengite	0.691	Chlorite-FeMg	0.309	293.07
K16-416	339.09		Phengite	1	NULL	NULL	116.23
K16-416	343.24		Phengite	1	NULL	NULL	152.03
K16-416	348.52		Phengite	1	NULL	NULL	124.33
K16-416	350.73		Chlorite-FeMg	0.616	Phengite	0.384	264.22
K16-416	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	910.97
K16-416	362.28		Phengite	1	NULL	NULL	147.83
K16-416	363.03		Phengite	1	NULL	NULL	271.52
K16-416	366.65		Phengite	1	NULL	NULL	206.64
K16-416	370.29		PhengiticIllite	1	NULL	NULL	223.99
K16-416	373.63		Phengite	1	NULL	NULL	93.055
K16-416	375.91		Phengite	1	NULL	NULL	135.66
K16-416	377.07		Phengite	1	NULL	NULL	199.16
K16-416	380.37		Phengite	1	NULL	NULL	109.85
K16-416	383.61		Phengite	1	NULL	NULL	161.76
K16-416	386.25		Phengite	1	NULL	NULL	135.23
K16-416	389.31		Phengite	1	NULL	NULL	178.58
K16-416	392.23		Phengite	1	NULL	NULL	202.18
K16-416	395.48		Phengite	1	NULL	NULL	252
K16-416	398.41		Phengite	1	NULL	NULL	132.84
K16-416	401.54		Phengite	1	NULL	NULL	153.24
K16-416	403.96		Phengite	1	NULL	NULL	116.49
K16-416	406.12		Phengite	1	NULL	NULL	129.5
K16-416	409.37		Phengite	1	NULL	NULL	115.35
K16-416	412.37		Phengite	1	NULL	NULL	98.88
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	984.13
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	881.2
K16-416	415.81		Phengite	1	NULL	NULL	99.855

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-416	418.43		Phengite	1	NULL	NULL	109.69
K16-416	421.74		Phengite	1	NULL	NULL	133.49
K16-416	424.75		Phengite	1	NULL	NULL	136.61
K16-416	427.31		Phengite	1	NULL	NULL	179.76
K16-416	430.42		Phengite	1	NULL	NULL	236.1
K16-416	433.35		Phengite	0.706	Chlorite-FeMg	0.294	141.44
K16-416	439.62		Phengite	1	NULL	NULL	162.26
K16-416	444.16		Phengite	1	NULL	NULL	126.87
K16-416	446.1		Phengite	1	NULL	NULL	115.95
K16-416	448.38		Phengite	1	NULL	NULL	168.28
K16-416	451.64		Phengite	1	NULL	NULL	132.6
K16-416	455.19		Phengite	1	NULL	NULL	111.35
K16-416	455.75		Phengite	1	NULL	NULL	153.86
K16-416	458.37		Phengite	1	NULL	NULL	104.04
K16-416	461.75		Phengite	1	NULL	NULL	128.59
K16-416	463.09		Phengite	1	NULL	NULL	140.78
K16-416	464.31		Phengite	1	NULL	NULL	90.419
K16-416	465.43		Phengite	1	NULL	NULL	62.851
K16-416	468.32		Phengite	1	NULL	NULL	160.73
K16-416	470.38		Phengite	1	NULL	NULL	142.26
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-416	472.05		Phengite	1	NULL	NULL	138.45
K16-416	473.16		Phengite	1	NULL	NULL	104.72
K16-416	474.23		Phengite	1	NULL	NULL	57.766
K16-416	477.62		Phengite	1	NULL	NULL	135.14
K16-416	480.81		Phengite	1	NULL	NULL	137.85
K16-416	483.44		Phengite	1	NULL	NULL	132.61
K16-416	485.48		Phengite	1	NULL	NULL	110.17

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-416	488.86		Phengite	0.626	Biotite	0.374	127.18
K16-416	490.25		Phengite	1	NULL	NULL	88.423
K16-416	492.9		Phengite	1	NULL	NULL	64.976
K16-416	495.65		Phengite	1	NULL	NULL	81.451
K16-416	497.5		Phengite	1	NULL	NULL	56.347
K16-416	504.08		Phengite	1	NULL	NULL	120.28
K16-416	506.15		Phengite	1	NULL	NULL	95.674
K16-416	509.96		Phengite	1	NULL	NULL	103.99
K16-416	511.91		Phengite	1	NULL	NULL	107.38
K16-416	513.95		Phengite	1	NULL	NULL	128.01
K16-416	516.26		Phengite	1	NULL	NULL	90.094
K16-416	518.5		Phengite	1	NULL	NULL	79.406
K16-416	520.95		Phengite	1	NULL	NULL	79.239
K16-416	523.21		Phengite	1	NULL	NULL	137.18
K16-416	525.38		Phengite	1	NULL	NULL	120.56
K16-416	527.7		Phengite	1	NULL	NULL	133.14
K16-416	529.83		Phengite	1	NULL	NULL	131.34
K16-416	533.81		Phengite	1	NULL	NULL	138.42
K16-416	536.77		Phengite	1	NULL	NULL	125.67
K16-416	539.15		Phengite	1	NULL	NULL	130.42
K16-416	542.55		Phengite	1	NULL	NULL	108.18
K16-416	545.73		Phengite	1	NULL	NULL	60.261
K16-416	550.19		Phengite	1	NULL	NULL	52.62
K16-416	553.32		Phengite	1	NULL	NULL	116.95
K16-416	555.59		Phengite	1	NULL	NULL	111.22
K16-416	559.94		Phengite	1	NULL	NULL	93.624
K16-416	563.16		Phengite	1	NULL	NULL	139.75
K16-416	656.66		Phengite	1	NULL	NULL	125.64
K16-416	567.9		Phengite	1	NULL	NULL	126.2

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-416	571.3		Phengite	1	NULL	NULL	160
K16-416	575.05		Phengite	1	NULL	NULL	83.113
K16-416	576.88		Phengite	1	NULL	NULL	100.15
K16-416	579.21		Phengite	1	NULL	NULL	113.7
K16-416	581.57		Phengite	1	NULL	NULL	58.466
K16-416	584.33		Phengite	1	NULL	NULL	129.54
K16-416	587.88		Phengite	1	NULL	NULL	118.56
K16-416	591.11		Phengite	1	NULL	NULL	116.36
K16-416	592.36		Phengite	0.85	Calcite	0.15	61.354
K16-416	595.45		Phengite	1	NULL	NULL	116.94
K16-416	599.06		Phengite	1	NULL	NULL	88.973
K16-416	601.16		Phengite	1	NULL	NULL	96.172
K16-416	604.32		Phengite	1	NULL	NULL	179.29
K16-416	606.65		Phengite	1	NULL	NULL	79.7
K16-416	610.04		Phengite	1	NULL	NULL	50.12
K16-416	612.36		Phengite	1	NULL	NULL	174.33
K16-416	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	987.6
K16-416	614.68		Phengite	0.722	Calcite	0.278	146.64
K16-416	616.15		Muscovite	1	NULL	NULL	168.59
K16-416	617.19		Muscovite	1	NULL	NULL	77.061
K16-416	618.35		Phengite	1	NULL	NULL	155.25
K16-416	620.35		Phengite	1	NULL	NULL	181.84
K16-416	622.59		Phengite	1	NULL	NULL	51.631
K16-416	627.89		Phengite	1	NULL	NULL	93.491
K16-416	631.24		Phengite	1	NULL	NULL	42.527
K16-416	634.37		Phengite	1	NULL	NULL	110.27
K16-416	636.19		Phengite	1	NULL	NULL	123.66
K16-416	639.9		Phengite	1	NULL	NULL	96.31

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-416	641.04		Phengite	1	NULL	NULL	92.292
K16-416	643.46		Phengite	1	NULL	NULL	121.25
K16-416	646.08		Phengite	1	NULL	NULL	53.759
K16-416	649.15		Phengite	0.825	Chlorite-Mg	0.175	117.07
K16-416	652.39		Phengite	1	NULL	NULL	96.902
K16-416	655.55		Phengite	1	NULL	NULL	143.34
K16-416	659.08		Phengite	1	NULL	NULL	126.48
K16-416	662.44		Phengite	0.653	Chlorite-FeMg	0.347	85.673
K16-416	665.87		Calcite	0.527	Phengite	0.473	64.326
K16-416	669.39		Phengite	1	NULL	NULL	42.931
K16-416	680.52		Phengite	1	NULL	NULL	161.64
K16-416	683.71		Phengite	1	NULL	NULL	95.148
K16-416	687.08		Phengite	1	NULL	NULL	133.21
K16-416	689.43		Phengite	1	NULL	NULL	113.67
K16-416	691.26		Phengite	1	NULL	NULL	132.15
K16-416	697.23		Chlorite-FeMg	0.521	Phengite	0.479	124.64
K16-416	699.64		Phengite	0.612	Chlorite-FeMg	0.388	128.19
K16-416	702.77		Chlorite-FeMg	0.468	Phengite	0.323	92.957
K16-416	706.18		Chlorite-FeMg	0.653	Siderite	0.347	39.839
K16-416	711.25		Chlorite-FeMg	1	NULL	NULL	87.837
K16-416	719.18		Phengite	0.748	Dolomite	0.252	33.643
K16-416	722.2		Phengite	1	NULL	NULL	85.46
K16-416	725.68		Phengite	1	NULL	NULL	119.79
K16-416	727.67		Phengite	1	NULL	NULL	139.68
K16-416	731.75		Phengite	1	NULL	NULL	126.17
K16-416	738.17		Phengite	1	NULL	NULL	223.03
K16-416	741.11		Phengite	1	NULL	NULL	172.09
K16-416	743.7		Phengite	1	NULL	NULL	95.098
K16-416	746.22		Phengite	1	NULL	NULL	138.68

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-416	747.88		PhengiticIllite	1	NULL	NULL	142.61
K16-416	750.35		Phengite	1	NULL	NULL	172.06
K16-416	751.5		Phengite	1	NULL	NULL	138.8
K16-416	754.07		Chlorite-FeMg	0.663	Phengite	0.337	142.5
K16-416	756.07		Phengite	1	NULL	NULL	70.139
K16-416	759.33		Phengite	1	NULL	NULL	106.13
K16-416	762.49		Phengite	1	NULL	NULL	71.095
K16-416	764.73		Phengite	1	NULL	NULL	88.737
K16-416	766.88		Phengite	1	NULL	NULL	192.83
K16-416	770.11		Phengite	1	NULL	NULL	99.701
K16-416	772.61		Phengite	1	NULL	NULL	91.663
K16-416	776.16		Phengite	1	NULL	NULL	104.34
K16-416	780.23		Phengite	1	NULL	NULL	190.5
K16-416	782.94		Phengite	1	NULL	NULL	191.22
K16-416	786.26		Phengite	1	NULL	NULL	115.24
K16-416	789.47		Phengite	1	NULL	NULL	133.72
K16-416	792.86		Phengite	1	NULL	NULL	132.89
K16-416	795.48		Phengite	1	NULL	NULL	167.71
K16-416	797.94		Phengite	1	NULL	NULL	183.67
K16-416	800.89		Phengite	1	NULL	NULL	116.54
K16-416	804.04		Phengite	1	NULL	NULL	106.54
K16-416	805.9		Phengite	1	NULL	NULL	162.21
K16-416	809.14		Phengite	1	NULL	NULL	101.41
K16-416	813.55		Phengite	1	NULL	NULL	160.61
K16-416	815.55		Phengite	1	NULL	NULL	107.72
K16-416	819.35		Phengite	1	NULL	NULL	141.53
K16-416	822.18		Phengite	1	NULL	NULL	147.08
K16-416	825.73		Phengite	1	NULL	NULL	163.27
K16-416	828.65		Phengite	1	NULL	NULL	121.87

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-416	831		Phengite	0.778	Chlorite-FeMg	0.222	179.83
K16-416	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K16-417	11.9		Phengite	1	NULL	NULL	105.56
K16-417	16.9		Chlorite-FeMg	0.449	Muscovite	0.301	67.787
K16-417	22		Kaolinite-WX	1	NULL	NULL	54.157
K16-417	26.9		Chlorite-FeMg	0.595	Phengite	0.405	89.817
K16-417	31.9		Ankerite	1	NULL	NULL	58.33
K16-417	36.9		Phengite	1	NULL	NULL	197.94
K16-417	41.8		Phengite	1	NULL	NULL	52.643
K16-417	46.9		Ankerite	0.56	Tourmaline-Fe	0.44	164.4
K16-417	51.9		Tourmaline-Fe	0.599	Phengite	0.401	120.45
K16-417	56.9		Kaolinite-WX	0.471	Phengite	0.376	64.726
K16-417	62		Chlorite-FeMg	0.567	Kaolinite-WX	0.433	59.563
K16-417	66.9		Phengite	0.849	Calcite	0.151	117.67
K16-417	71.9		Phengite	1	NULL	NULL	109.2
K16-417	76.9		Phengite	1	NULL	NULL	112.46
K16-417	81.9		Phengite	1	NULL	NULL	121.59
K16-417	86.9		Phengite	1	NULL	NULL	88.339
K16-417	91.9		Phengite	1	NULL	NULL	127.83
K16-417	96.9		Phengite	1	NULL	NULL	219.07
K16-417	101.9		Phengite	1	NULL	NULL	141.08
K16-417	106.9		Phengite	1	NULL	NULL	143.76
K16-417	111.9		Phengite	1	NULL	NULL	173.25
K16-417	116.9		Phengite	0.8	Ankerite	0.2	104.76
K16-417	121.9		Aspectral	1	NULL	NULL	54.069
K16-417	126.9		Phengite	1	NULL	NULL	123.85
K16-417	131.9		Phengite	1	NULL	NULL	97.723
K16-417	136.9		Muscovite	1	NULL	NULL	187.74
K16-417	141.9		Phengite	1	NULL	NULL	167.12

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-417	146.9		Phengite	1	NULL	NULL	58.978
K16-417	151.9		Phengite	0.565	Chlorite-FeMg	0.435	209.05
K16-417	156.9		Phengite	0.598	Chlorite-FeMg	0.402	250.71
K16-417	161.9		Phengite	0.678	Ankerite	0.322	73.567
K16-417	166.9		Phengite	1	NULL	NULL	158.99
K16-417	171.9		Phengite	1	NULL	NULL	110.96
K16-417	176.9		Calcite	0.612	Muscovite	0.388	27.17
K16-417	181.9		Phengite	1	NULL	NULL	122.99
K16-417	186.9		Kaolinite-WX	0.571	Phengite	0.429	64.495
K16-417	191.9		Phengite	0.583	Chlorite-FeMg	0.417	67.015
K16-417	196.9		Phengite	1	NULL	NULL	121.18
K16-417	201.9		Phengite	1	NULL	NULL	136.53
K16-417	204.9		Muscovite	1	NULL	NULL	95.796
K16-417	207.9		Muscovite	1	NULL	NULL	217.47
K16-417	210.9		Muscovite	1	NULL	NULL	140.93
K16-417	213.9		Muscovite	1	NULL	NULL	119.96
K16-417	216.9		Muscovite	1	NULL	NULL	111.07
K16-417	219.9		Muscovite	1	NULL	NULL	128.59
K16-417	222.9		Muscovite	1	NULL	NULL	97.89
K16-417	225.9		Muscovite	1	NULL	NULL	100.93
K16-417	228.9		Muscovite	1	NULL	NULL	159.29
K16-417	231.9		Muscovite	1	NULL	NULL	132.12
K16-417	234.9		Muscovite	1	NULL	NULL	140.49
K16-417	237.9		Phengite	1	NULL	NULL	123.3
K16-417	240.9		Phengite	0.68	Ankerite	0.32	59.995
K16-417	243.8		Phengite	1	NULL	NULL	117
K16-417	246.9		Phengite	1	NULL	NULL	65.366
K16-417	249.9		Muscovite	0.55	Calcite	0.45	63.34
K16-417	252.9		Phengite	1	NULL	NULL	174.55

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-417	255.9		Muscovite	1	NULL	NULL	89.148
K16-417	258.6		Phengite	1	NULL	NULL	115.02
K16-417	261.7		Calcite	0.657	Muscovite	0.343	54.579
K16-417	264.9		Phengite	1	NULL	NULL	103.7
K16-417	267.9		Phengite	1	NULL	NULL	55.518
K16-417	270.9		Aspectral	1	NULL	NULL	210.92
K16-417	273.9		Phengite	1	NULL	NULL	74.658
K16-417	276.9		Phengite	1	NULL	NULL	75.789
K16-417	279.9		Phengite	1	NULL	NULL	75.659
K16-417	282.9		Phengite	1	NULL	NULL	143.49
K16-417	285.9		Aspectral	1	NULL	NULL	47.806
K16-417	288.9		Chlorite-FeMg	1	NULL	NULL	95.19
K16-417	291.9		Aspectral	1	NULL	NULL	73.392
K16-417	294.7		Chlorite-FeMg	0.773	Phengite	0.227	116.26
K16-417	297.9		Chlorite-FeMg	0.615	Actinolite	0.212	64.551
K16-417	300.9		Chlorite-FeMg	0.804	Calcite	0.196	122.02
K16-417	303.9		Chlorite-FeMg	0.705	Phengite	0.295	149.75
K16-417	306.9		Muscovitic Illite	0.511	Chlorite-FeMg	0.311	67.855
K16-417	311.9		Siderite	0.507	Montmorillonite	0.299	72.513
K16-417	316.9		Chlorite-FeMg	0.747	Phengite	0.253	126.68
K16-417	321.9		Chlorite-FeMg	0.776	Phengite	0.224	109.57
K16-417	326.9		Chlorite-FeMg	0.844	Muscovite	0.156	81.016
K16-417	331.9		Phengite	1	NULL	NULL	111.91
K16-417	335.9		Muscovitic Illite	1	NULL	NULL	113.08
K16-417	338.9		Muscovite	1	NULL	NULL	112.17
K16-417	341.9		Muscovite	1	NULL	NULL	131.27
K16-417	344.9		Muscovite	1	NULL	NULL	109.1
K16-417	347.9		Muscovite	1	NULL	NULL	119.36
K16-417	350.9		Muscovitic Illite	1	NULL	NULL	101.72

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K16-417	353.9		Muscovite	0.583	Chlorite-FeMg	0.417	69.167
K16-417	356.9		Muscovite	1	NULL	NULL	58.27
K16-417	359.9		Muscovite	1	NULL	NULL	97.348
K16-417	362.9		Muscovite	1	NULL	NULL	88.126
K16-417	365.9		Muscovite	1	NULL	NULL	53.591
K17-447	10.18		Aspectral	1	NULL	NULL	81.386
K17-447	11.41		Chlorite-FeMg	0.71	Phengite	0.29	215.42
K17-447	11.85		Biotite	1	NULL	NULL	354.44
K17-447	15.96		Chlorite-FeMg	0.753	Phengite	0.247	78.7
K17-447	16		Chlorite-FeMg	0.726	Montmorillonite	0.274	60.212
K17-447	20.98		Chlorite-FeMg	0.685	Phengite	0.315	145.23
K17-447	25.89		Chlorite-FeMg	0.617	Phengite	0.383	198.2
K17-447	26.43		Chlorite-Fe	1	NULL	NULL	221.3
K17-447	26.96		Chlorite-FeMg	0.646	Muscovite	0.354	153.04
K17-447	28.98		Chlorite-Fe	0.701	Muscovite	0.299	187.2
K17-447	3211		Chlorite-FeMg	0.501	MuscoviticIllite	0.331	63.031
K17-447	34.98		Phengite	0.753	Ankerite	0.247	160.32
K17-447	36.46		Chlorite-FeMg	0.811	Diaspore	0.189	178.2
K17-447	38.11		Chlorite-FeMg	0.734	MuscoviticIllite	0.266	123.19
K17-447	38.22		Chlorite-FeMg	0.633	MuscoviticIllite	0.367	165.06
K17-447	24.2		Chlorite-Fe	1	NULL	NULL	292.5
K17-447	44.2		Chlorite-FeMg	0.622	Biotite	0.378	418.46
K17-447	46.55		Chlorite-FeMg	0.772	Biotite	0.228	156.39
K17-447	46.95		Chlorite-FeMg	0.511	Biotite	0.489	137.21
K17-447	47.16		Biotite	0.827	Riebeckite	0.173	316.71
K17-447	47.49		Biotite	0.81	Riebeckite	0.19	200.38
K17-447	48.79		Biotite	0.733	Chlorite-FeMg	0.267	175.53
K17-447	50.07		Chlorite-FeMg	1	NULL	NULL	178.26
K17-447	50.1		Chlorite-FeMg	0.757	Siderite	0.243	69.473

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-447	50.13		Calcite	1	NULL	NULL	98.367
K17-447	50.21		Calcite	1	NULL	NULL	207.75
K17-447	50.55		Calcite	0.607	Hornblende	0.393	145.37
K17-447	51.1		Aspectral	1	NULL	NULL	960.27
K17-447	51.35		Chlorite-FeMg	0.659	Biotite	0.341	117.61
K17-447	53.02		Chlorite-FeMg	0.535	Phengite	0.465	126.24
K17-447	53.06		Chlorite-FeMg	0.611	Phengite	0.389	92.19
K17-447	55.98		Chlorite-FeMg	0.529	Phengite	0.471	218.72
K17-447	58.97		Phengite	0.679	Calcite	0.321	64.983
K17-447	61.95		Phengite	0.623	Chlorite-FeMg	0.377	220.09
K17-447	61.96		Chlorite-FeMg	0.622	Phengite	0.378	170.79
K17-447	65.98		Phengite	0.577	Chlorite-FeMg	0.423	229.43
K17-447	69.02		Chlorite-FeMg	0.71	Biotite	0.29	176.08
K17-447	73.95		Chlorite-Fe	0.525	MuscoviticIllite	0.475	78.202
K17-447	78.98		Chlorite-FeMg	1	NULL	NULL	101.41
K17-447	79		Chlorite-FeMg	1	NULL	NULL	108.83
K17-447	83.93		Chlorite-FeMg	1	NULL	NULL	120.98
K17-447	89		Chlorite-FeMg	1	NULL	NULL	117.5
K17-447	89.01		Chlorite-FeMg	1	NULL	NULL	121.92
K17-447	91.5		Chlorite-FeMg	1	NULL	NULL	164.12
K17-447	97.01		Aspectral	1	NULL	NULL	968.37
K17-447	97.03		Chlorite-FeMg	0.641	Phengite	0.359	83.964
K17-447	98.835		Phengite	1	NULL	NULL	49.233
K17-447	98.845		Phengite	1	NULL	NULL	29.472
K17-447	98.9		Calcite	0.547	Phengite	0.453	22.108
K17-447	104		Aspectral	1	NULL	NULL	431.82
K17-447	109.515		Ankerite	0.551	Dickite	0.449	64.667
K17-447	109.53		Ankerite	0.732	Dickite	0.268	64.038
K17-447	109.59		Dickite	1	NULL	NULL	79.595

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-447	10976		Dickite	1	NULL	NULL	69.127
K17-447	111.925		Aspectral	1	NULL	NULL	129
K17-447	111.965		Calcite	1	NULL	NULL	117.23
K17-447	111.97		Calcite	0.797	Dickite	0.203	84.55
K17-447	112.04		Phengite	1	NULL	NULL	142.12
K17-447	118.38		Montmorillonite	1	NULL	NULL	55.519
K17-447	118.41		Phengite	0.555	Kaolinite-WX	0.445	73.45
K17-447	124.345		Aspectral	1	NULL	NULL	159.94
K17-447	124.53		Phengite	0.756	Kaolinite-WX	0.244	80.779
K17-447	124.6		Aspectral	1	NULL	NULL	303.6
K17-447	129.135		Aspectral	1	NULL	NULL	135.15
K17-447	129.18		Phengite	1	NULL	NULL	258.57
K17-447	129.23		Aspectral	1	NULL	NULL	202.61
K17-447	133.9		Phengite	1	NULL	NULL	61.647
K17-447	134.54		Phengite	1	NULL	NULL	149.33
K17-447	134.95		Phengite	1	NULL	NULL	72.455
K17-447	139		Phengite	1	NULL	NULL	210.77
K17-447	139.1		Phengite	1	NULL	NULL	78.963
K17-447	139.2		Phengite	1	NULL	NULL	68.614
K17-447	144.01		Phengite	1	NULL	NULL	157.96
K17-447	144.02		Phengite	1	NULL	NULL	154.95
K17-447	144.11		Phengite	1	NULL	NULL	174.84
K17-447	148.9		Phengite	1	NULL	NULL	74.7
K17-447	148.95		Phengite	1	NULL	NULL	74.813
K17-447	148.97		Phengite	1	NULL	NULL	51.283
K17-447	150.9		Aspectral	1	NULL	NULL	93.527
K17-447	151		Phengite	1	NULL	NULL	215.8
K17-447	154.03		Phengite	1	NULL	NULL	222.22
K17-447	156.94		Chlorite-FeMg	0.795	Phengite	0.205	111.04

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-447	157.1		Chlorite-FeMg	0.623	Biotite	0.197	168.5
K17-447	157.6		Chlorite-FeMg	0.601	Phengite	0.399	141.42
K17-447	158.03		Phengite	1	NULL	NULL	131.99
K17-447	163		Phengite	1	NULL	NULL	124.99
K17-447	168		Phengite	1	NULL	NULL	49.111
K17-447	172		Aspectral	1	NULL	NULL	192.89
K17-447	173.4		Phengite	0.713	Kaolinite-PX	0.287	85.622
K17-447	173.55		Phengite	0.628	Ankerite	0.372	49.408
K17-447	173.56		Dolomite	1	NULL	NULL	44.232
K17-447	173.6		Dolomite	1	NULL	NULL	62.85
K17-447	173.7		Phengite	0.634	Ankerite	0.188	78.872
K17-447	173.75		Phengite	0.744	Kaolinite-WX	0.256	134.62
K17-447	173.8		Phengite	0.779	Kaolinite-WX	0.221	134.92
K17-447	173.81		Phengite	0.751	Ankerite	0.249	81.253
K17-447	173.85		Phengite	0.657	Siderite	0.343	97.752
K17-447	173.92		Phengite	0.566	Kaolinite-PX	0.284	100.76
K17-447	175		Aspectral	1	NULL	NULL	147.76
K17-447	176		Phengite	0.577	Chlorite-FeMg	0.423	147.33
K17-447	176.4		Chlorite-FeMg	0.532	Phengite	0.468	142.07
K17-447	176.7		Phengite	0.758	Dickite	0.242	136.79
K17-447	177		Phengite	1	NULL	NULL	128.84
K17-447	181.7		Phengite	0.842	Ankerite	0.158	117.06
K17-447	186		Phengite	0.834	Ankerite	0.166	149.74
K17-447	186.1		Phengite	1	NULL	NULL	182.3
K17-447	187.5		Calcite	0.796	Muscovite	0.204	96.312
K17-447	187.55		Calcite	0.845	Serpentine	0.155	96.615
K17-447	187.6		Chlorite-FeMg	1	NULL	NULL	71.033
K17-447	189		Chlorite-FeMg	0.439	Phengite	0.352	81.239
K17-447	189.1		Phengite	0.5	Chlorite-FeMg	0.5	96.398

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-447	191.2		Phengite	0.519	Chlorite-FeMg	0.481	126.36
K17-447	193.8		Phengite	0.707	Ankerite	0.293	55.724
K17-447	198		Phengite	1	NULL	NULL	108.71
K17-447	203.9		Phengite	1	NULL	NULL	112.62
K17-447	204		Phengite	0.743	Ankerite	0.257	120.3
K17-447	208.9		Phengite	1	NULL	NULL	159.84
K17-447	209		Phengite	1	NULL	NULL	100.15
K17-447	214		Phengite	1	NULL	NULL	183.82
K17-447	219.9		Phengite	1	NULL	NULL	189.43
K17-447	220		Phengite	1	NULL	NULL	121.75
K17-447	220.1		Chlorite-FeMg	0.658	Phengite	0.342	94.773
K17-447	223.7		Phengite	1	NULL	NULL	190.56
K17-447	225		Phengite	1	NULL	NULL	161.11
K17-447	227.8		Phengite	0.591	Chlorite-FeMg	0.409	103.93
K17-447	227.86		Phengite	0.798	Ankerite	0.202	57.733
K17-447	234.5		Phengite	0.618	Ankerite	0.382	35.311
K17-447	234.6		Phengite	0.63	Ankerite	0.37	55.216
K17-447	234.6		Phengite	1	NULL	NULL	56.361
K17-447	237		Aspectral	1	NULL	NULL	91.92
K17-447	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	925.39
K17-447	241.9		Phengite	1	NULL	NULL	42.608
K17-447	242		Dolomite	1	NULL	NULL	98.692
K17-447	242.1		Aspectral	1	NULL	NULL	67.654
K17-447	246.9		Aspectral	1	NULL	NULL	57.842
K17-447	247		Calcite	0.754	Muscovite	0.246	65.434
K17-447	247.3		Phengite	0.833	Ankerite	0.167	42.574
K17-447	251.9		Chlorite-FeMg	0.597	Muscovite	0.403	64.964
K17-447	252		Calcite	1	NULL	NULL	57.572
K17-447	252.3		Chlorite-FeMg	0.661	Phengite	0.339	171.51

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-447	256		Phengite	0.607	Chlorite-FeMg	0.393	190.83
K17-447	257		Aspectral	1	NULL	NULL	99.533
K17-447	259.36		Chlorite-FeMg	0.662	Phengite	0.338	121.24
K17-447	260		Aspectral	1	NULL	NULL	72.334
K17-447	260		Phengite	0.51	Chlorite-FeMg	0.49	234.68
K17-447	260		Chlorite-FeMg	1	NULL	NULL	78.165
K17-447	265		Chlorite-FeMg	0.591	Paragonite	0.219	105.87
K17-447	266		Chlorite-FeMg	0.499	Kaolinite-WX	0.299	158.57
K17-447	267		Phengite	0.562	Siderite	0.438	24.504
K17-447	272		Siderite	0.705	Zoisite	0.295	36.184
K17-447	272.1		Phengite	0.63	Chlorite-FeMg	0.37	120.5
K17-447	272.2		Phengite	1	NULL	NULL	168.92
K17-447	277		Muscovite	1	NULL	NULL	57.723
K17-447	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	859.16
K17-447	281		Phengite	0.65	Ankerite	0.35	47.658
K17-447	282		Phengite	1	NULL	NULL	88.804
K17-447	285.6		Phengite	0.551	Kaolinite-WX	0.449	101.94
K17-447	286.3		Phengite	0.536	Ankerite	0.464	25.543
K17-447	286.4		Aspectral	1	NULL	NULL	362.54
K17-447	286.4		Chlorite-FeMg	0.645	Phengite	0.355	33.874
K17-447	286.4		Calcite	0.554	Phengite	0.446	22.001
K17-447	288.7		Phengite	1	NULL	NULL	74.954
K17-447	288.8		Phengite	1	NULL	NULL	48.785
K17-447	293.9		Chlorite-FeMg	1	NULL	NULL	86.039
K17-447	294		Chlorite-FeMg	1	NULL	NULL	104.49
K17-447	294		Chlorite-FeMg	1	NULL	NULL	63.468
K17-447	296.8		Muscovitic Illite	1	NULL	NULL	98.751
K17-447	296.9		Muscovite	1	NULL	NULL	35.997
K17-447	297		Muscovite	1	NULL	NULL	52.623

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-447	297.2		Muscovitic Illite	1	NULL	NULL	110.89
K17-447	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K17-447	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	979.96
K17-447	301		Chlorite-FeMg	0.744	Phengite	0.256	78.3
K17-447	304		Phengite	1	NULL	NULL	62.261
K17-447	307		Chlorite-FeMg	0.736	Phengite	0.264	61.761
K17-447	308.9		Phengite	1	NULL	NULL	194.46
K17-447	309		Phengite	1	NULL	NULL	205.3
K17-447	314.4		Phengite	1	NULL	NULL	92.425
K17-447	314.6		Phengite	1	NULL	NULL	88.664
K17-447	312		Phengite	1	NULL	NULL	85.972
K17-447	326		Phengite	0.603	Chlorite-FeMg	0.397	86.923
K17-447	326.1		Phengite	1	NULL	NULL	90.149
K17-447	326.2		Phengite	0.682	Chlorite-FeMg	0.318	111.14
K17-447	331		Phengite	1	NULL	NULL	67.769
K17-447	331.2		Phengite	1	NULL	NULL	64.659
K17-447	336		Phengite	1	NULL	NULL	65.834
K17-447	336		Phengite	0.741	Siderite	0.259	49.834
K17-447	340		Phengite	1	NULL	NULL	62.812
K17-447	340.1		Phengite	1	NULL	NULL	108.7
K17-447	341		Phengite	1	NULL	NULL	86.128
K17-447	341.2		Phengite	1	NULL	NULL	87.09
K17-447	340.5		Tourmaline-Fe	1	NULL	NULL	169.73
K17-447	340.6		Tourmaline-Fe	1	NULL	NULL	203.48
K17-447	340.7		Tourmaline-Fe	1	NULL	NULL	147.19
K17-447	346		Kaolinite-WX	0.526	PhengiticIllite	0.474	43.566
K17-447	346		Phengite	1	NULL	NULL	53.103
K17-447	346.1		Phengite	1	NULL	NULL	60.722
K17-447	349		PhengiticIllite	0.737	Ankerite	0.263	84.831

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-447	349		Muscovitic Illite	1	NULL	NULL	163.86
K17-447	349		Muscovitic Illite	1	NULL	NULL	158.97
K17-447	354		Phengite	1	NULL	NULL	83.641
K17-447	354		Phengite	1	NULL	NULL	92.298
K17-447	354.1		Phengite	1	NULL	NULL	86.378
K17-447	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	442.45
K17-447	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K17-447	359		Phengite	1	NULL	NULL	155.71
K17-447	359.05		Phengite	1	NULL	NULL	100.33
K17-447	359.1		Phengite	1	NULL	NULL	73.041
K17-447	363.9		Phengite	1	NULL	NULL	86.566
K17-447	364		Phengite	0.625	Chlorite-FeMg	0.375	86.396
K17-447	364.2		Phengite	0.798	Chlorite-Mg	0.202	115.54
K17-447	368.9		Phengite	1	NULL	NULL	101.41
K17-447	369		Phengite	0.658	Ankerite	0.342	76.094
K17-447	374		Aspectral	1	NULL	NULL	975.83
K17-447	374.1		Aspectral	1	NULL	NULL	145.46
K17-447	378.9		Phengite	1	NULL	NULL	48.057
K17-447	379		Phengite	1	NULL	NULL	57.271
K17-447	383.9		Calcite	0.679	Phengite	0.321	32.591
K17-447	384		Phengite	1	NULL	NULL	63.931
K17-447	389.1		Chlorite-FeMg	0.796	Phengite	0.204	76.98
K17-447	392.9		Chlorite-Fe	1	NULL	NULL	147.35
K17-447	393		Chlorite-Fe	1	NULL	NULL	150.69
K17-447	393.1		Phengite	0.833	Ankerite	0.167	114.15
K17-447	395.3		Aspectral	1	NULL	NULL	74.599
K17-447	395.4		Calcite	1	NULL	NULL	99.473
K17-447	395.5		Aspectral	1	NULL	NULL	70.281
K17-447	400.2		Phengite	0.574	Chlorite-FeMg	0.426	114.45

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-447	405		NULL	NULL	NULL	NULL	NULL
K17-447	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	947.5
K17-447	405.7		Phengite	0.816	Calcite	0.184	140.51
K17-447	405.7		Phengite	0.502	Calcite	0.272	142.68
K17-447	409.9		Phengite	0.564	Chlorite-FeMg	0.436	62.078
K17-447	410		Phengite	0.553	Chlorite-FeMg	0.447	59.538
K17-447	410.1		Phengite	0.587	Chlorite-FeMg	0.413	47.851
K17-447	410.2		Calcite	0.702	Phengite	0.298	38.281
K17-447	412		Aspectral	1	NULL	NULL	71.096
K17-447	417.9		Calcite	1	NULL	NULL	71.511
K17-447	417.9		Calcite	0.815	Diaspore	0.185	34.025
K17-447	418		Phengite	0.541	Chlorite-Mg	0.459	84.865
K17-447	419.1		Calcite	1	NULL	NULL	54.562
K17-447	419.2		Calcite	1	NULL	NULL	62.966
K17-447	411		Calcite	0.805	Muscovite	0.195	52.533
K17-447	422.1		Phengite	1	NULL	NULL	134.58
K17-447	422.1		Phengite	1	NULL	NULL	110.42
K17-447	422.1		Calcite	1	NULL	NULL	72.737
K17-447	422.1		Chlorite-FeMg	0.552	Phengite	0.448	237.87
K17-447	422.1		Phengite	0.558	Calcite	0.276	70.165
K17-447	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	870.91
K17-447	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	932.67
K17-447	426.66		Chlorite-FeMg	0.762	Phengite	0.238	134.29
K17-447	426.7		Chlorite-FeMg	0.673	Phengite	0.327	129.3
K17-447	426.8		Chlorite-FeMg	0.776	Phengite	0.224	94.714
K17-447	427		Calcite	1	NULL	NULL	116.73
K17-447	430		Chlorite-FeMg	0.625	Phengite	0.375	72.069
K17-447	430.1		Chlorite-FeMg	0.649	Phengite	0.351	83.227
K17-447	431		Chlorite-FeMg	1	NULL	NULL	190.99

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-447	434.8		Chlorite-FeMg	0.846	Phengite	0.154	73.68
K17-447	434.9		Chlorite-FeMg	0.809	Phengite	0.191	131.82
K17-447	437.9		Chlorite-FeMg	0.682	Phengite	0.318	96.522
K17-447	438		Chlorite-FeMg	0.563	Phengite	0.437	99.712
K17-447	441		Chlorite-FeMg	0.813	Phengite	0.187	81.891
K17-447	441.9		Chlorite-FeMg	0.818	Phengite	0.182	76.029
K17-447	441		Chlorite-FeMg	0.809	Calcite	0.191	45.844
K17-447	442.1		Chlorite-FeMg	0.833	Phengite	0.167	99.379
K17-447	446.9		Chlorite-FeMg	0.815	Phengite	0.185	112.37
K17-447	447		Chlorite-FeMg	0.804	Phengite	0.196	110.5
K17-447	447.1		Chlorite-FeMg	0.822	Phengite	0.178	93.756
K17-447	450.9		Chlorite-FeMg	0.795	Phengite	0.205	72.406
K17-447	451		Chlorite-FeMg	0.849	Phengite	0.151	44.879
K17-447	415.5		Chlorite-FeMg	0.69	Phengite	0.31	72.382
K17-447	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K17-449	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K17-449	8.02		NULL	NULL	NULL	NULL	NULL
K17-449	13.04		Chlorite-Fe	0.749	Kaolinite-WX	0.251	800.21
K17-449	16.87		Kaolinite-WX	0.579	Diaspore	0.421	305.18
K17-449	17.61		Phengite	0.597	Diaspore	0.403	797.64
K17-449	17.74		Kaolinite-WX	0.625	Diaspore	0.375	283.15
K17-449	17.77		Kaolinite-WX	0.458	Diaspore	0.386	738.91
K17-449	17.81		Kaolinite-WX	0.514	Diaspore	0.331	379.45
K17-449	17.88		Kaolinite-WX	0.569	Diaspore	0.431	366.1
K17-449	17.9		Phengite	0.756	Diaspore	0.244	395.36
K17-449	18.04		Dickite	0.583	Diaspore	0.417	485.57
K17-449	23.01		NULL	NULL	NULL	NULL	NULL
K17-449	28.1		Phengite	0.627	Diaspore	0.373	869.41
K17-449	29.27		Kaolinite-WX	0.547	Chlorite-Fe	0.453	466.05

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	936.69
K17-449	33.03		Ankerite	1	NULL	NULL	64.066
K17-449	35.45		Phengite	0.641	Chlorite-Mg	0.359	141.05
K17-449	37.98		Aspectral	1	NULL	NULL	65.271
K17-449	42.6		Aspectral	1	NULL	NULL	231.25
K17-449	42.62		Chlorite-FeMg	0.679	Phengite	0.321	141.81
K17-449	47.98		Calcite	0.736	Montmorillonite	0.264	56.106
K17-449	53.02		Aspectral	1	NULL	NULL	95.877
K17-449	58.04		Aspectral	1	NULL	NULL	520.28
K17-449	62.98		Aspectral	1	NULL	NULL	581.67
K17-449	68.03		Chlorite-Fe	0.632	Calcite	0.368	81.316
K17-449	73.02		Chlorite-FeMg	1	NULL	NULL	46.316
K17-449	77.99		Aspectral	1	NULL	NULL	100.08
K17-449	81.24		Muscovite	0.372	Calcite	0.354	103.15
K17-449	81.84		Chlorite-FeMg	0.607	Phengite	0.393	139.03
K17-449	82.04		Phengite	0.825	Alunite-NH	0.175	146.54
K17-449	87.12		Chlorite-Fe	1	NULL	NULL	588.21
K17-449	92.02		Chlorite-Fe	1	NULL	NULL	231.33
K17-449	94.89		Tourmaline	1	NULL	NULL	628.73
K17-449	94.96		Calcite	0.699	Chlorite-Fe	0.301	143.55
K17-449	95.05		NULL	NULL	NULL	NULL	NULL
K17-449	95.19		Phengite	1	NULL	NULL	251.21
K17-449	95.16		Phengite	0.534	Alunite-NH	0.247	386.94
K17-449	99.99		Aspectral	1	NULL	NULL	285.16
K17-449	105.03		Aspectral	1	NULL	NULL	412.89
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K17-449	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K17-449	108.4		NULL	NULL	NULL	NULL	NULL

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	110.61		Aspectral	1	NULL	NULL	111.15
K17-449	114.82		Chlorite-Fe	1	NULL	NULL	286.95
K17-449	115.09		Phengite	1	NULL	NULL	246.57
K17-449	120.06		Chlorite-FeMg	0.521	Montmorillonite	0.479	32.195
K17-449	125.03		Aspectral	1	NULL	NULL	436.13
K17-449	127.11		Phengite	1	NULL	NULL	302.03
K17-449	127.61		Phengite	0.555	Chlorite-FeMg	0.445	234.95
K17-449	129.97		Chlorite-FeMg	1	NULL	NULL	175.4
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K17-449	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K17-449	132.1		Aspectral	1	NULL	NULL	530.99
K17-449	135.1		Aspectral	1	NULL	NULL	1000
K17-449	137.5		Phengite	0.717	Diaspore	0.283	675.39
K17-449	140.1		Chlorite-Fe	1	NULL	NULL	890.59
K17-449	143.1		Aspectral	1	NULL	NULL	948.21
K17-449	146.2		Aspectral	1	NULL	NULL	895.51
K17-449	149		Aspectral	1	NULL	NULL	471.4
K17-449	152.1		Chlorite-FeMg	0.647	Montmorillonite	0.353	331.95
K17-449	155		Chlorite-Fe	1	NULL	NULL	876.21
K17-449	158		Chlorite-FeMg	1	NULL	NULL	342.81
K17-449	161		Aspectral	1	NULL	NULL	575.98
K17-449	163.9		Chlorite-FeMg	0.572	Phengite	0.428	374.29
K17-449	167		Chlorite-FeMg	0.742	Montmorillonite	0.258	464.04
K17-449	170		Aspectral	1	NULL	NULL	665.31
K17-449	173		Aspectral	1	NULL	NULL	681.94
K17-449	176		Aspectral	1	NULL	NULL	1000
K17-449	178		Chlorite-FeMg	1	NULL	NULL	822.91
K17-449	179.1		Aspectral	1	NULL	NULL	441.38
K17-449	182		Aspectral	1	NULL	NULL	828.71

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	185		Aspectral	1	NULL	NULL	834.29
K17-449	186.5		Chlorite-Fe	0.817	Diaspore	0.183	938.04
K17-449	190		NULL	NULL	NULL	NULL	NULL
K17-449	193.1		Chlorite-FeMg	0.655	Phengite	0.345	690.35
K17-449	196		NULL	NULL	NULL	NULL	NULL
K17-449	199		Aspectral	1	NULL	NULL	728.54
K17-449	202		NULL	NULL	NULL	NULL	NULL
K17-449	205.1		NULL	NULL	NULL	NULL	NULL
K17-449	208		NULL	NULL	NULL	NULL	NULL
K17-449	211		Aspectral	1	NULL	NULL	1000
K17-449	211.6		Chlorite-FeMg	1	NULL	NULL	419.86
K17-449	214.1		Aspectral	1	NULL	NULL	736.86
K17-449	217		Aspectral	1	NULL	NULL	909.53
K17-449	220.1		Aspectral	1	NULL	NULL	1000
K17-449	222.4		Chlorite-FeMg	1	NULL	NULL	878.24
K17-449	226		Phengite	0.735	Montmorillonite	0.265	422.6
K17-449	228.9		NULL	NULL	NULL	NULL	NULL
K17-449	232		NULL	NULL	NULL	NULL	NULL
K17-449	234.2		Chlorite-Fe	1	NULL	NULL	978.45
K17-449	235.2		Aspectral	1	NULL	NULL	596.09
K17-449	237.4		Phengite	0.638	Chlorite-FeMg	0.362	778.89
K17-449	238.4		Aspectral	1	NULL	NULL	1000
K17-449	240.2		Chlorite-FeMg	0.563	Phengite	0.437	486.86
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	977.52
K17-449	241.1		Aspectral	1	NULL	NULL	140.62
K17-449	242.3		Chlorite-FeMg	0.67	Phengite	0.33	217.43
K17-449	245.3		Aspectral	1	NULL	NULL	167.73
K17-449	247.2		Phengite	0.787	Chlorite-FeMg	0.213	361.41

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	249.6		Chlorite-FeMg	0.398	MuscoviticIllite	0.385	132.54
K17-449	252.7		Kaolinite-WX	0.784	Tourmaline-Fe	0.216	73.695
K17-449	255		Aspectral	1	NULL	NULL	136.55
K17-449	257.1		Muscovite	0.807	Ankerite	0.193	127.82
K17-449	259.4		Phengite	0.839	Kaolinite-WX	0.161	98.373
K17-449	262.4		Aspectral	1	NULL	NULL	134.97
K17-449	267.4		Aspectral	1	NULL	NULL	149.31
K17-449	272.4		Aspectral	1	NULL	NULL	114.77
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	967.54
K17-449	275.4		Phengite	1	NULL	NULL	163.12
K17-449	278.4		Biotite	0.558	Chlorite-FeMg	0.442	494.93
K17-449	281.3		Phengite	1	NULL	NULL	276.42
K17-449	284.3		Phengite	1	NULL	NULL	154.84
K17-449	287.4		Chlorite-FeMg	0.639	Phengite	0.361	234.77
K17-449	290.4		Aspectral	1	NULL	NULL	148.02
K17-449	295.4		Aspectral	1	NULL	NULL	142.62
K17-449	300.4		Aspectral	1	NULL	NULL	304.38
K17-449	300.6		Chlorite-Fe	0.816	Montmorillonite	0.184	114.72
K17-449	303.5		PhengiticIllite	0.601	Chlorite-FeMg	0.399	195.33
K17-449	306.5		Chlorite-FeMg	1	NULL	NULL	109.23
K17-449	309.5		Chlorite-FeMg	0.659	Phengite	0.341	71.902
K17-449	312.4		Aspectral	1	NULL	NULL	175.03
K17-449	315.3		Chlorite-FeMg	0.69	Phengite	0.31	153.85
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	887.61
K17-449	317.3		Phengite	1	NULL	NULL	43.061
K17-449	322.2		Phengite	0.58	Chlorite-FeMg	0.42	84.504
K17-449	327.3		Chlorite-FeMg	1	NULL	NULL	70.459
K17-449	330		Chlorite-FeMg	0.808	Phengite	0.192	45.261
K17-449	335.3		Phengite	1	NULL	NULL	37.358

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	339.2		Phengite	1	NULL	NULL	99.789
K17-449	342.2		Phengite	1	NULL	NULL	49.824
K17-449	345.2		Phengite	1	NULL	NULL	195.96
K17-449	348.2		Chlorite-FeMg	1	NULL	NULL	126.08
K17-449	351		Chlorite-FeMg	0.786	Hornblende	0.214	66.798
K17-449	354.3		Chlorite-FeMg	0.66	Phengite	0.34	86.6
K17-449	357.2		Phengite	0.528	Actinolite	0.288	197.11
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K17-449	360.1		Chlorite-FeMg	0.802	Actinolite	0.198	90.365
K17-449	363.1		Chlorite-FeMg	0.551	Muscovite	0.449	109.97
K17-449	366.2		Phengite	1	NULL	NULL	95.904
K17-449	367.9		Phengite	0.761	Chlorite-FeMg	0.239	204.92
K17-449	369.3		Phengite	1	NULL	NULL	180.11
K17-449	372.2		Phengite	0.479	Phlogopite	0.323	121.96
K17-449	374.4		Muscovitic Illite	1	NULL	NULL	173.9
K17-449	375.2		Phengite	1	NULL	NULL	110.89
K17-449	378.2		Chlorite-FeMg	0.772	Phengite	0.228	167.98
K17-449	381.1		Chlorite-FeMg	0.751	Phengite	0.249	231.36
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K17-449	384.2		Phengite	0.555	Chlorite-FeMg	0.445	218.13
K17-449	387.4		Chlorite-FeMg	0.615	Phengite	0.385	214.63
K17-449	390.4		Chlorite-FeMg	1	NULL	NULL	187.07
K17-449	393.4		Chlorite-FeMg	0.627	Phengite	0.373	210.33
K17-449	396.4		Phengite	0.55	Chlorite-FeMg	0.45	171.58
K17-449	399.5		Phengite	1	NULL	NULL	122.13
K17-449	400.4		Phengite	1	NULL	NULL	153.72
K17-449	402.4		Chlorite-FeMg	0.694	Biotite	0.306	134.27
K17-449	405.4		Chlorite-FeMg	0.693	Biotite	0.307	160.94
K17-449	406.7		Chlorite-FeMg	1	NULL	NULL	154.38

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	407.1		Phengite	1	NULL	NULL	86.518
K17-449	406.9		Phengite	0.834	Alunite-NH	0.166	132.48
K17-449	409.3		Phengite	0.694	Chlorite-FeMg	0.306	87.467
K17-449	412.4		Phengite	0.84	Ankerite	0.16	127
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	818.59
K17-449	414.5		Phengite	1	NULL	NULL	98.418
K17-449	416		Chlorite-FeMg	0.572	Phengite	0.428	198.9
K17-449	417.2		Phengite	1	NULL	NULL	96.025
K17-449	420.5		Chlorite-FeMg	0.66	Biotite	0.34	79.944
K17-449	423.3		Chlorite-FeMg	1	NULL	NULL	164.3
K17-449	426.4		Chlorite-Fe	1	NULL	NULL	134.12
K17-449	429.4		Chlorite-FeMg	1	NULL	NULL	124.12
K17-449	432.4		Chlorite-FeMg	1	NULL	NULL	92.917
K17-449	433.7		Chlorite-FeMg	0.753	Phengite	0.247	211.55
K17-449	435.4		Chlorite-FeMg	0.593	Phengite	0.407	158.16
K17-449	436.9		Chlorite-FeMg	0.59	Hornblende	0.41	81.082
K17-449	438.2		Chlorite-FeMg	0.57	Phengite	0.43	123.77
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	958.53
K17-449	441.4		Phengite	1	NULL	NULL	113.17
K17-449	444.3		Aspectral	1	NULL	NULL	124.44
K17-449	445.5		Calcite	0.756	Diaspore	0.244	37.495
K17-449	450.4		Aspectral	1	NULL	NULL	105.82
K17-449	454.4		Hornblende	0.531	Chlorite-FeMg	0.469	106.18
K17-449	459.3		Phengite	0.589	Chlorite-FeMg	0.411	125.11
K17-449	462.3		Chlorite-FeMg	1	NULL	NULL	168.02
K17-449	465.3		Chlorite-FeMg	1	NULL	NULL	146.33
K17-449	467		Chlorite-FeMg	1	NULL	NULL	113.37
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	927.02
K17-449	468.3		Chlorite-FeMg	0.76	Biotite	0.24	110.73

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	471.3		Chlorite-FeMg	0.712	Epidote	0.288	116.24
K17-449	473.3		Phengite	0.536	Epidote	0.239	137.16
K17-449	474.3		Chlorite-FeMg	0.848	Actinolite	0.152	101.57
K17-449	477.3		Chlorite-FeMg	0.729	Biotite	0.271	175.06
K17-449	480.3		Chlorite-FeMg	1	NULL	NULL	182.11
K17-449	485.3		Chlorite-FeMg	1	NULL	NULL	195.13
K17-449	490.3		Chlorite-FeMg	1	NULL	NULL	281.72
K17-449	493.3		Chlorite-FeMg	0.508	Actinolite	0.492	141.83
K17-449	496.3		Hornblende	0.519	Chlorite-FeMg	0.256	155.26
K17-449	499.3		Chlorite-FeMg	1	NULL	NULL	228.36
K17-449	501.6		Chlorite-FeMg	1	NULL	NULL	157.02
K17-449	502.3		Chlorite-FeMg	0.631	Phengite	0.369	153.65
K17-449	505.3		Chlorite-FeMg	0.518	Actinolite	0.323	106.89
K17-449	508.5		Chlorite-FeMg	1	NULL	NULL	143.96
K17-449	511.3		Chlorite-FeMg	1	NULL	NULL	347.16
K17-449	514.3		Chlorite-FeMg	0.622	Biotite	0.378	173.6
K17-449	517.3		Phengite	1	NULL	NULL	222.51
K17-449	520.2		Chlorite-FeMg	0.505	Biotite	0.495	137.35
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	984.12
K17-449	520.7		Chlorite-FeMg	0.822	Phengite	0.178	145.16
K17-449	523.3		Phengite	0.658	Chlorite-FeMg	0.342	202.28
K17-449	528.3		Phengite	1	NULL	NULL	224.42
K17-449	533.3		Chlorite-FeMg	1	NULL	NULL	143.76
K17-449	538.3		Chlorite-FeMg	1	NULL	NULL	91.054
K17-449	543.3		Chlorite-FeMg	1	NULL	NULL	106.27
K17-449	548.3		Chlorite-FeMg	1	NULL	NULL	76.119
K17-449	551.3		Chlorite-FeMg	0.47	Calcite	0.339	70.845
K17-449	554.3		Hornblende	0.726	Chlorite-FeMg	0.274	71.722
K17-449	557.3		Chlorite-FeMg	0.456	Phengite	0.31	103.5

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	558.4		Hornblende	0.639	Chlorite-FeMg	0.361	108.19
K17-449	560.3		Chlorite-FeMg	0.809	Epidote	0.191	62.889
K17-449	563.3		Chlorite-FeMg	1	NULL	NULL	94.96
K17-449	566.2		Chlorite-FeMg	0.469	Phengite	0.292	269.39
K17-449	568.3		Chlorite-FeMg	0.547	Actinolite	0.453	61.526
K17-449	569.3		Phengite	1	NULL	NULL	191.21
K17-449	571.3		Phengite	1	NULL	NULL	177.05
K17-449	572.7		Chlorite-FeMg	0.567	Montmorillonite	0.433	33.005
K17-449	573.5		Chlorite-FeMg	0.617	Biotite	0.383	53.048
K17-449	574.8		PhengiticIllite	0.707	Chlorite-FeMg	0.293	78.168
K17-449	576.2		Phengite	1	NULL	NULL	88.81
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K17-449	576.8		Muscovitic Illite	0.678	Montmorillonite	0.322	124.91
K17-449	579.3		Chlorite-FeMg	1	NULL	NULL	117.26
K17-449	579.6		Biotite	0.624	Chlorite-FeMg	0.376	185.96
K17-449	582.3		Chlorite-FeMg	0.68	Phengite	0.32	123.27
K17-449	583.2		Chlorite-FeMg	1	NULL	NULL	215.21
K17-449	585.3		Phengite	0.508	Chlorite-FeMg	0.492	194.7
K17-449	587.2		Actinolite	1	NULL	NULL	179.19
K17-449	590.3		Chlorite-FeMg	1	NULL	NULL	211.58
K17-449	593.2		Chlorite-FeMg	1	NULL	NULL	199.55
K17-449	596.3		Chlorite-FeMg	1	NULL	NULL	365.23
K17-449	599.3		Chlorite-FeMg	1	NULL	NULL	186.22
K17-449	601.7		Biotite	0.549	Actinolite	0.451	86.537
K17-449	602.4		Phengite	1	NULL	NULL	72.212
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	933.43
K17-449	605.3		Phengite	1	NULL	NULL	96.983
K17-449	608.3		Chlorite-FeMg	1	NULL	NULL	141.4
K17-449	611.3		Chlorite-FeMg	0.589	Biotite	0.411	136.48

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	614.3		Phengite	1	NULL	NULL	118.5
K17-449	617.3		Chlorite-FeMg	0.505	PhengiticIllite	0.274	154.71
K17-449	618.4		Chlorite-FeMg	0.638	Hornblende	0.362	245.78
K17-449	620.2		Phengite	0.711	Chlorite-Fe	0.289	277.43
K17-449	623.3		Phengite	0.665	Chlorite-FeMg	0.335	260.51
K17-449	625.3		Chlorite-FeMg	1	NULL	NULL	127.67
K17-449	626.3		Phlogopite	0.783	Alunite-NH	0.217	231.81
K17-449	629.3		Chlorite-Fe	1	NULL	NULL	288.27
K17-449	632.3		Chlorite-FeMg	0.849	Muscovite	0.151	172.16
K17-449	635.3		Chlorite-FeMg	1	NULL	NULL	164.36
K17-449	638.3		Phengite	1	NULL	NULL	198.06
K17-449	641.3		Chlorite-FeMg	0.619	Biotite	0.381	103.9
K17-449	644.3		Chlorite-FeMg	1	NULL	NULL	109.45
K17-449	647.3		Phengite	1	NULL	NULL	124.78
K17-449	650.3		Chlorite-FeMg	1	NULL	NULL	196.44
K17-449	653.3		Chlorite-FeMg	1	NULL	NULL	167.86
K17-449	656.3		Phengite	1	NULL	NULL	123.47
K17-449	659.4		Phengite	0.814	Siderite	0.186	169.75
K17-449	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K17-449	662.3		Muscovitic Illite	0.51	Chlorite-FeMg	0.49	112.78
K17-449	664.9		Phengite	1	NULL	NULL	164.11
K17-449	668.4		Biotite	1	NULL	NULL	580.34
K17-449	669.2		Chlorite-FeMg	0.61	Biotite	0.39	94.268
K17-449	671.4		Phengite	1	NULL	NULL	151.27
K17-449	674.5		Chlorite-FeMg	0.69	Phengite	0.31	237.24
K17-449	677.4		Chlorite-FeMg	0.836	Hornblende	0.164	267.12
K17-449	680.5		Chlorite-FeMg	1	NULL	NULL	154.96
K17-449	682.7		Phengite	1	NULL	NULL	301.21
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	683.9		Phengite	1	NULL	NULL	116.52
K17-449	686.3		PhengiticIllite	0.708	Chlorite-Mg	0.292	154.89
K17-449	690		Biotite	0.54	Chlorite-FeMg	0.46	195.34
K17-449	691.7		Chlorite-FeMg	1	NULL	NULL	100.58
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	988.3
K17-449	694.7		Chlorite-FeMg	1	NULL	NULL	197.63
K17-449	697.8		Chlorite-FeMg	0.583	Phengite	0.417	264.63
K17-449	701.1		Chlorite-FeMg	0.537	Phengite	0.463	266.26
K17-449	703.5		Biotite	0.791	Phlogopite	0.209	204.59
K17-449	706.2		Chlorite-FeMg	0.612	Biotite	0.388	111.53
K17-449	709.5		Phengite	0.676	Actinolite	0.324	263.75
K17-449	712.5		Chlorite-FeMg	0.664	Biotite	0.336	125.9
K17-449	715.8		Biotite	0.814	Riebeckite	0.186	256.69
K17-449	718.8		Biotite	0.835	Phlogopite	0.165	236.72
K17-449	721.8		Phengite	1	NULL	NULL	250.49
K17-449	724.4		Phengite	0.769	Phlogopite	0.231	434.1
K17-449	725.5		Phengite	1	NULL	NULL	114.29
K17-449	728.9		Phengite	0.748	Phlogopite	0.252	397.73
K17-449	731.8		Phengite	1	NULL	NULL	227
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	997.94
K17-449	734.7		Phengite	0.674	Chlorite-FeMg	0.326	171.27
K17-449	737.4		Biotite	1	NULL	NULL	527.25
K17-449	740.5		Chlorite-FeMg	0.553	Phengite	0.447	72.253
K17-449	743.6		Phlogopite	0.572	Hornblende	0.428	114.66
K17-449	744.4		Phengite	1	NULL	NULL	70.676
K17-449	746.7		Phengite	1	NULL	NULL	156.27
K17-449	749.7		PhengiticIllite	1	NULL	NULL	118.51
K17-449	750.2		Paragonite	0.45	Dolomite	0.385	122.69
K17-449	750.7		Tourmaline-Fe	0.809	Diaspore	0.191	184.29

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-449	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	924.47
K17-449	751.1		Tourmaline-Fe	0.689	Ankerite	0.311	327.94
K17-449	751.5		Phengite	1	NULL	NULL	139.2
K17-449	752.5		Phengite	1	NULL	NULL	71.047
K17-449	755.5		Phlogopite	0.55	Phengite	0.45	66.298
K17-449	758.5		Chlorite-FeMg	1	NULL	NULL	116.06
K17-449	761.5		Chlorite-FeMg	1	NULL	NULL	164.74
K17-449	764.7		Actinolite	0.444	Epidote	0.335	161.7
K17-449	767.7		PhengiticIllite	1	NULL	NULL	122.05
K17-449	770.7		Chlorite-FeMg	0.726	Phengite	0.274	110.24
K17-449	773.5		Phengite	1	NULL	NULL	51.486
K17-449	776.4		Chlorite-FeMg	0.674	Phengite	0.326	123.35
K17-449	779.4		Chlorite-FeMg	0.501	Phengite	0.499	91.591
K17-449	780.9		Phengite	0.608	Chlorite-FeMg	0.392	230.7
K17-449	783.9		PhengiticIllite	0.725	Siderite	0.275	166.66
K17-449	784.7		Phengite	1	NULL	NULL	202.06
K17-449	787.9		Phengite	1	NULL	NULL	50.868
K17-449	790.5		Phengite	0.648	Chlorite-FeMg	0.352	121.58
K17-449	795.7		Phengite	0.643	Chlorite-FeMg	0.357	232.24
K17-449	797.9		Chlorite-FeMg	0.646	Phengite	0.354	127.95
K17-449	799.5		Chlorite-FeMg	0.701	Phengite	0.299	147.98
K17-450	0	WHITE REFERENCE	NULL	NULL	NULL	NULL	NULL
K17-450	4.4		Phengite	1	NULL	NULL	125.06
K17-450	5.5		Phengite	1	NULL	NULL	85.78
K17-450	7.6		Phengite	1	NULL	NULL	131.67
K17-450	10.5		Phengite	1	NULL	NULL	71.199
K17-450	14.3		Phengite	1	NULL	NULL	246.29
K17-450	16.5		Chlorite-FeMg	0.598	Phengite	0.402	87.179
K17-450	19.3		Phengite	1	NULL	NULL	132.78

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-450	19.6		Phengite	1	NULL	NULL	100.67
K17-450	24.7		Muscovite	1	NULL	NULL	156.68
K17-450	24.9		Phengite	1	NULL	NULL	125.94
K17-450	26.9		Phengite	1	NULL	NULL	176.22
K17-450	27.7		Phengite	1	NULL	NULL	106.11
K17-450	30.7		Phengite	1	NULL	NULL	81.191
K17-450	33.7		Phengite	1	NULL	NULL	42.304
K17-450	36.7		Phengite	1	NULL	NULL	101.93
K17-450	39.8		Phengite	1	NULL	NULL	93.018
K17-450	42.7		Phengite	1	NULL	NULL	82.712
K17-450	45.7		Phengite	1	NULL	NULL	92.331
K17-450	47.3		Phengite	0.74	Ankerite	0.26	173.25
K17-450	48.7		Phengite	0.772	Chlorite-Fe	0.228	135.98
K17-450	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	846.38
K17-450	49.1		Phengite	1	NULL	NULL	246.6
K17-450	52.6		Phengite	0.837	Ankerite	0.163	130.7
K17-450	53.6		Phengite	1	NULL	NULL	127.97
K17-450	55.7		Phengite	1	NULL	NULL	133.2
K17-450	58.6		Phengite	0.779	Siderite	0.221	77.853
K17-450	61.6		Phengite	1	NULL	NULL	163
K17-450	64.7		Phengite	1	NULL	NULL	95.211
K17-450	67.7		Phengite	1	NULL	NULL	100.93
K17-450	69.2		Phengite	0.821	Ankerite	0.179	96.025
K17-450	70.7		Phengite	1	NULL	NULL	111.46
K17-450	73.7		Phengite	0.847	Ankerite	0.153	133.42
K17-450	76.6		Phengite	1	NULL	NULL	94.078
K17-450	79.7		Phengite	1	NULL	NULL	107.36
K17-450	82.7		Phengite	1	NULL	NULL	106.51
K17-450	85.7		Phengite	1	NULL	NULL	89.437

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-450	88.7		Phengite	1	NULL	NULL	57.443
K17-450	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	1000
K17-450	91.7		Phengite	1	NULL	NULL	119.14
K17-450	93.7		Phengite	1	NULL	NULL	118.94
K17-450	96.7		Phengite	1	NULL	NULL	150.45
K17-450	97.8		Phengite	1	NULL	NULL	263.5
K17-450	99.7		Phengite	1	NULL	NULL	146.92
K17-450	102.7		Phengite	1	NULL	NULL	126.81
K17-450	105.6		Phengite	1	NULL	NULL	136.4
K17-450	108.6		Muscovite	1	NULL	NULL	142.31
K17-450	0	WHITE REFERENCE	Aspectral	1	NULL	NULL	922.13
K17-450	111.7		Phengite	1	NULL	NULL	81.999
K17-450	114.7		Phengite	1	NULL	NULL	48.793
K17-450	117.7		Muscovite	0.804	Dolomite	0.196	64.852
K17-450	119.7		Muscovite	1	NULL	NULL	120.6
K17-450	120.8		Muscovite	0.827	Dolomite	0.173	65.25
K17-450	123.5		Muscovite	1	NULL	NULL	145.28
K17-450	126.7		Phengite	1	NULL	NULL	154.44
K17-450	129.6		Muscovite	1	NULL	NULL	133.5
K17-450	132.7		Phengite	1	NULL	NULL	137.01
K17-450	135.6		Phengite	1	NULL	NULL	103.44
K17-450	138.6		Muscovite	1	NULL	NULL	137.22
K17-450	141.7		Muscovite	1	NULL	NULL	87.25
K17-450	143.7		Muscovite	1	NULL	NULL	172.48
K17-450	144.6		Phengite	1	NULL	NULL	136.01
K17-450	146.7		Chlorite-FeMg	1	NULL	NULL	183.05
K17-450	166.7		Phengite	1	NULL	NULL	123.6
K17-450	168.7		Chlorite-FeMg	1	NULL	NULL	94.175
K17-450	169.4		Phengite	1	NULL	NULL	150.34

HOLE_ID	DEPTH_M	STANDARD_TYPE	Min1 sTSAS	Wt1 sTSAS	Min2 sTSAS	Wt2 sTSAS	Error sTSAS
K17-450	172.4		Chlorite-FeMg	1	NULL	NULL	103.16
K17-450	175.4		Phengite	1	NULL	NULL	104.05
K17-450	178.4		Chlorite-FeMg	0.613	Biotite	0.387	100.68
K17-450	181.4		Chlorite-FeMg	1	NULL	NULL	107.93

Table W-2: Drill core TerraSpec spectral features

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K94-018	10.7	1472.29	17.745	0.00368	1547.89	0.000626	1942.82	38.407	0.0511	2213.02	33.751	0.214	NULL	NULL	NULL	2350.65	37.814	0.126
K94-018	21.8	NULL	NULL	NULL	1567.05	0.000293	1941.92	37.875	0.0527	2213.04	33.374	0.165	NULL	NULL	NULL	2351.69	37.775	0.0974
K94-018	15.6	NULL	NULL	NULL	1563.01	0.000414	1942.07	37.446	0.0582	2212.67	33.301	0.182	NULL	NULL	NULL	2348.02	38.138	0.108
K94-018	25.7	NULL	NULL	NULL	1547.2	0.000955	1940.7	37.673	0.0679	2213.4	33.371	0.212	NULL	NULL	NULL	2349.66	38.155	0.123
K94-018	30.7	NULL	NULL	NULL	1558.05	0.000608	1942.49	37.381	0.0564	2213.4	33.173	0.211	NULL	NULL	NULL	2351.93	37.897	0.117
K94-018	35.7	NULL	NULL	NULL	1550.16	0.00145	1940.21	36.071	0.0623	2212.87	33.152	0.211	NULL	NULL	NULL	2351.48	37.869	0.12
K94-018	40.7	NULL	NULL	NULL	1547.86	0.000481	1938.95	44.479	0.0347	2211.84	33.808	0.226	NULL	NULL	NULL	2348.18	37.644	0.13
K94-018	45.7	NULL	NULL	NULL	1552.69	0.000399	1929.34	42.338	0.0324	2212	33.831	0.236	NULL	NULL	NULL	2349.25	37.908	0.14
K94-018	50.7	NULL	NULL	NULL	1548.33	0.000716	1935.7	43.599	0.0316	2212.54	33.513	0.232	NULL	NULL	NULL	2348.69	37.47	0.137
K94-018	55.7	NULL	NULL	NULL	1546.86	0.00161	1939.95	39.955	0.0692	2211.43	34.032	0.215	NULL	NULL	NULL	2347.6	37.545	0.121
K94-018	60.7	NULL	NULL	NULL	1550.33	0.00118	1939.76	39.173	0.0675	2210.71	34.02	0.217	NULL	NULL	NULL	2349.02	38.137	0.123
K94-018	65.7	NULL	NULL	NULL	NULL	NULL	1938.82	42.323	0.148	2214.16	34.205	0.217	NULL	NULL	NULL	2350.29	39.524	0.12
K94-018	70.7	NULL	NULL	NULL	NULL	NULL	1938.8	42.409	0.16	2213.45	34.171	0.224	NULL	NULL	NULL	2349.7	39.094	0.125
K94-018	75.7	NULL	NULL	NULL	NULL	NULL	1937.43	43.702	0.175	2213.28	34.342	0.253	NULL	NULL	NULL	2346.53	39.389	0.145
K94-018	80.7	NULL	NULL	NULL	1540.9	0.00329	1922.58	42.352	0.0813	2212.27	34.868	0.307	NULL	NULL	NULL	2344.49	39.463	0.183
K94-018	85.7	NULL	NULL	NULL	1537.51	0.00551	1918.2	40.58	0.0699	2212.63	34.765	0.315	NULL	NULL	NULL	2351.27	39.514	0.187
K94-018	90.7	NULL	NULL	NULL	NULL	NULL	1920.46	40.421	0.0676	2213.29	34.848	0.316	NULL	NULL	NULL	2350.4	39.169	0.187
K94-018	95.7	NULL	NULL	NULL	NULL	NULL	1917.88	42.294	0.0942	2212.02	34.083	0.24	NULL	NULL	NULL	2347.41	38.608	0.146
K94-018	100.7	NULL	NULL	NULL	1537.86	0.00182	1922.05	41.725	0.0929	2212.39	33.592	0.242	NULL	NULL	NULL	2347.24	37.45	0.142
K94-018	105.7	NULL	NULL	NULL	1547.84	0.000506	1919.54	41.378	0.0654	2211.93	34.376	0.246	NULL	NULL	NULL	2349.74	37.18	0.15
K94-018	110.7	NULL	NULL	NULL	NULL	NULL	1920.02	37.601	0.075	2212.12	34.961	0.35	NULL	NULL	NULL	2346.56	38.853	0.216
K94-018	115.8	1473.13	17.295	0.0308	NULL	NULL	1918.4	37.605	0.0679	2211.92	34.682	0.291	NULL	NULL	NULL	2345.86	40.144	0.175
K94-018	120.7	NULL	NULL	NULL	NULL	NULL	1917.74	38.125	0.0588	2212.42	34.389	0.276	NULL	NULL	NULL	2348.73	39.644	0.172
K94-018	125.7	NULL	NULL	NULL	1551.87	0.0032	1910	34.607	0.137	2210.95	35.864	0.391	NULL	NULL	NULL	2347.72	40.203	0.243
K94-018	130.5	NULL	NULL	NULL	1549.23	0.0043	1911.2	33.967	0.132	2212.5	35.781	0.39	NULL	NULL	NULL	2347.45	40.525	0.25
K94-018	135.5	NULL	NULL	NULL	1544.68	0.0048	1910.24	34.859	0.116	2210.65	35.792	0.381	NULL	NULL	NULL	2351.35	40.523	0.233
K94-018	140.5	NULL	NULL	NULL	1547.56	0.00213	1938.37	37.247	0.0677	2213.63	33.953	0.358	NULL	NULL	NULL	2350.66	38.382	0.215
K94-018	145.8	NULL	NULL	NULL	1548.6	0.00168	1941.3	36.821	0.0658	2213.5	34.236	0.348	NULL	NULL	NULL	2351.24	38.793	0.216
K94-018	150.5	NULL	NULL	NULL	1550.25	0.00107	1942.13	36.254	0.0625	2213.75	33.984	0.332	NULL	NULL	NULL	2349.56	38.062	0.205
K94-018	155.5	NULL	NULL	NULL	1562	0.000894	1921.33	35.016	0.0238	2213.84	33.995	0.268	NULL	NULL	NULL	2348	39.743	0.155
K94-018	160.5	NULL	NULL	NULL	1544.78	0.00184	1920.12	35.508	0.0256	2214.03	33.871	0.262	NULL	NULL	NULL	2350.07	39.14	0.154
K94-018	165.5	NULL	NULL	NULL	1549.83	0.00109	1919.45	35.347	0.0219	2214.04	34.024	0.265	NULL	NULL	NULL	2348.04	39.438	0.155
K94-018	170.5	NULL	NULL	NULL	1539.91	0.0057	1924.11	42.043	0.119	2212.88	35.148	0.404	NULL	NULL	NULL	2348.96	39.323	0.256

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K94-018	175.5	NULL	NULL	NULL	NULL	NULL	1928.72	41.07	0.116	2213.13	35.117	0.417	NULL	NULL	NULL	2347.73	40.449	0.255
K94-018	180.5	NULL	NULL	NULL	1544.7	0.00539	1921.44	39.761	0.102	2211.98	35.5	0.403	NULL	NULL	NULL	2350.18	39.87	0.256
K94-018	185.5	NULL	NULL	NULL	1555.34	0.00365	1919.68	39.961	0.0216	2213.31	34.766	0.354	NULL	NULL	NULL	2352.35	39.154	0.221
K94-018	190.5	NULL	NULL	NULL	1554.23	0.0025	1918.91	37.894	0.0193	2212.84	34.771	0.349	NULL	NULL	NULL	2349.04	39.186	0.216
K94-018	195.5	NULL	NULL	NULL	1549.54	0.00315	1915.83	40.652	0.0169	2212.41	34.961	0.356	NULL	NULL	NULL	2350.57	39.8	0.212
K94-018	200.3	1471.98	24.006	0.00125	1539.47	0.00104	1927.85	38.301	0.0231	2213.35	30.248	0.11	2241.9	18.586	0.0398	2347.98	39.037	0.0609
K94-018	205.5	1471.51	16.359	0.00196	1558.07	0.00107	1930.55	29.757	0.0208	2213.84	31.745	0.105	2242.04	15.595	0.0399	2352.89	34.116	0.0722
K94-018	210.5	NULL	NULL	NULL	1558.16	0.000622	1929.51	38.562	0.0216	2214.94	30.242	0.108	2240.25	17.273	0.0378	2347.33	34.371	0.0657
K94-018	215.5	NULL	NULL	NULL	NULL	NULL	1939.25	43.238	0.0748	2208.06	34.454	0.291	NULL	NULL	NULL	2351.15	38.376	0.174
K94-018	220.5	NULL	NULL	NULL	1540.49	0.00572	1937.24	43.184	0.0721	2209.7	34.126	0.291	NULL	NULL	NULL	2350.89	38.88	0.17
K94-018	225.5	NULL	NULL	NULL	1538.43	0.00566	1938.01	42.295	0.0702	2209.3	34.308	0.292	NULL	NULL	NULL	2347.49	38.424	0.172
K94-018	230.5	1470.45	15.896	0.00406	1548.04	0.00125	1920.33	38.616	0.0154	2209.6	32.71	0.181	NULL	NULL	NULL	2348.96	35.526	0.103
K94-018	235.5	NULL	NULL	NULL	1549.1	0.00115	1920.8	33.902	0.0141	2209.12	32.739	0.181	NULL	NULL	NULL	2351.36	36.728	0.104
K94-018	240.5	1473.81	20	0.00122	1548.92	0.000772	1914.62	35.055	0.0121	2209.63	32.837	0.178	NULL	NULL	NULL	2350.15	36.086	0.101
K94-018	244.9	NULL	NULL	NULL	1550.07	0.00146	1933.1	38.189	0.0408	2211.01	33.602	0.207	NULL	NULL	NULL	2351.91	37.661	0.131
K94-018	247.9	NULL	NULL	NULL	1550.99	0.00204	1922.35	42.456	0.0369	2211.31	33.996	0.208	2243.11	16.702	0.0802	2351.4	38.554	0.13
K94-018	250.9	NULL	NULL	NULL	1556.06	0.0014	1945.7	42.657	0.0338	2211.52	33.319	0.192	NULL	NULL	NULL	2354.61	38.351	0.126
K94-018	253.8	NULL	NULL	NULL	1550.46	0.00248	1936.68	42.802	0.045	2209.92	33.943	0.279	NULL	NULL	NULL	2350.19	37.727	0.177
K94-018	256.9	NULL	NULL	NULL	1552.78	0.00205	1937.92	41.184	0.044	2209.86	33.901	0.293	NULL	NULL	NULL	2348.8	37.333	0.189
K94-018	259.9	1473.45	18.73	0.0015	1547.8	0.00227	1936.12	42.325	0.04	2210.43	33.864	0.272	NULL	NULL	NULL	2351.19	37.744	0.168
K94-018	262.9	1472.42	13.357	0.00533	1549.92	0.00629	1947.83	30.064	0.0102	2207.65	31.623	0.139	2240.69	13.308	0.0326	2350.26	33.269	0.0768
K94-018	265.9	1496.79	15.224	0.00736	1546.59	0.00841	1931	36.523	0.0109	2206.34	31.753	0.134	NULL	NULL	NULL	2350.65	35.367	0.0786
K94-018	268.9	1490.59	16.934	0.00712	1548.63	0.00849	1940.72	38.74	0.00852	2207.84	30.963	0.14	NULL	NULL	NULL	2349.81	35.712	0.0734
K94-018	271.9	NULL	NULL	NULL	1547.75	0.000826	1940.13	40.435	0.0193	2209.01	32.603	0.187	NULL	NULL	NULL	2350.66	35.768	0.111
K94-018	274.9	1473.62	17.395	0.00181	1545.46	0.000999	1936.71	38.944	0.0196	2208.79	31.931	0.197	NULL	NULL	NULL	2348.03	35.165	0.12
K94-018	277.9	NULL	NULL	NULL	1544.04	0.00127	1942.13	42.48	0.0218	2209.69	32.643	0.204	NULL	NULL	NULL	2348.6	35.451	0.118
K94-018	280.9	NULL	NULL	NULL	1547.13	0.00585	1938.56	44.146	0.0204	2209.02	32.581	0.245	NULL	NULL	NULL	2348.31	37.055	0.146
K94-018	283.9	1473.88	17.958	0.00676	1548	0.00571	1935.13	41.879	0.0177	2209.11	32.619	0.234	NULL	NULL	NULL	2352.06	35.805	0.143
K94-018	286.9	1474.86	17.929	0.00565	1546.53	0.00516	1932.89	37.493	0.0194	2209.6	32.62	0.239	NULL	NULL	NULL	2347.82	35.703	0.145
K94-018	289.9	1472.1	17.191	0.00771	1543.17	0.00655	1925.23	42.445	0.0183	2209.84	31.666	0.158	NULL	NULL	NULL	2348.48	34.797	0.0919
K94-018	292.9	1472.61	14.616	0.00686	NULL	NULL	1921.03	37.862	0.0132	2210.21	31.517	0.15	NULL	NULL	NULL	2351.77	35.015	0.082
K94-018	295.9	1487.32	19.575	0.00801	1564.14	0.00814	1920.72	37.333	0.0139	2208.4	32.091	0.154	NULL	NULL	NULL	2348.64	35.174	0.0912
K94-018	298.9	1470.93	14.645	0.00248	1560.86	0.00126	1957.96	31.701	0.00669	2208.53	32.992	0.201	NULL	NULL	NULL	2345.51	38.556	0.109
K94-018	301.9	1473.59	16.18	0.00481	1565.73	0.0012	1918.63	35.358	0.00592	2209.69	32.908	0.196	NULL	NULL	NULL	2347.21	38.529	0.108
K94-018	304.9	1475.59	16.658	0.00444	1563.82	0.00182	1913.66	36.472	0.00751	2209.57	32.767	0.182	NULL	NULL	NULL	2345.58	39.588	0.0952
K94-018	307.9	NULL	NULL	NULL	NULL	NULL	1928.93	43.718	0.228	2211.52	33.156	0.293	NULL	NULL	NULL	2351.64	36.664	0.163
K94-023	6.6	NULL	NULL	NULL	1561.8	0.00313	1920.02	37.94	0.0359	2211.22	33.503	0.338	NULL	NULL	NULL	2348.92	36.731	0.205

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K94-023	9.6	NULL	NULL	NULL	1547.34	0.00372	1919.48	38.236	0.0243	2211.21	33.482	0.347	NULL	NULL	NULL	2350.07	36.65	0.213
K94-023	12.6	NULL	NULL	NULL	1544.19	0.00451	1916.31	37.918	0.0862	2210.68	34.984	0.384	NULL	NULL	NULL	2350.58	39.111	0.249
K94-023	15.6	NULL	NULL	NULL	1546.29	0.0035	1917.8	38.301	0.073	2210.39	34.883	0.378	NULL	NULL	NULL	2349.39	38.959	0.248
K94-023	18.6	NULL	NULL	NULL	1544.44	0.005	1917.32	39.076	0.0849	2210.36	35.11	0.392	NULL	NULL	NULL	2348.85	39.197	0.252
K94-023	21.6	1472.73	10.469	0.00199	1546.47	0.00367	1914.7	31.938	0.0161	2207.53	34.378	0.205	NULL	NULL	NULL	2344.12	40.727	0.15
K94-023	24.6	1473.82	12.798	0.00882	1562.42	0.00808	1919.78	34.028	0.0252	2210.37	35.846	0.0833	2250.39	17.108	0.118	2336.12	38.951	0.147
K94-023	27.6	NULL	NULL	NULL	1550.04	0.00801	1920.52	39.295	0.0241	2206.34	36.944	0.0773	2249.71	18.112	0.115	2332.37	40.206	0.14
K94-023	30.6	1470.41	13.402	0.00378	1564.61	0.000742	1918.3	35.161	0.0341	2226.08	28.251	0.01	2250.14	18.992	0.0319	2329.35	36.755	0.0514
K94-023	33.6	1470.63	14.932	0.0039	1543.87	0.000928	1922	36.879	0.0318	2218.04	24.154	0.0117	2253.04	15.781	0.0322	2328.98	38.467	0.0452
K94-023	36.6	NULL	NULL	NULL	1563.8	0.00112	1923.73	38.398	0.0321	2204.71	32.991	0.00944	2255.44	15.585	0.029	2333.33	36.541	0.0478
K94-023	39.6	1476.79	12.304	0.000684	1547.62	0.000713	1945.88	28.656	0.00597	2224.12	31.312	0.0252	2241.82	17.738	0.0223	NULL	NULL	NULL
K94-023	42.6	1476.78	14.03	0.000605	1565.23	0.00107	1946.52	35.281	0.00485	2228.56	30.673	0.0277	2249.4	13.599	0.0274	2358.02	30.594	0.0214
K94-023	45.6	NULL	NULL	NULL	1564.18	0.00106	1911.29	36.764	0.00549	2217.6	30.736	0.0248	2250.05	16.658	0.0231	2336.54	35.693	0.0182
K94-023	48.6	1473.9	15.022	0.000532	1560.04	0.0017	1957.15	37.977	0.0062	2197.97	30.415	0.0794	2242.29	13.933	0.0762	2320.06	36.424	0.0607
K94-023	51.6	1496.42	19.255	0.000876	1543.84	0.000878	NULL	NULL	NULL	2203.68	32.269	0.0714	2240.49	8.047	0.0686	NULL	NULL	NULL
K94-023	54.6	1486.7	16.937	0.000793	1565.04	0.00159	1958.82	29.462	0.00913	2200.61	28.136	0.0834	NULL	NULL	NULL	NULL	NULL	NULL
K94-023	57.6	1499.74	16.517	0.000491	1564.34	0.00141	1951.46	31.014	0.00774	2212.93	30.669	0.0662	2240.91	17.277	0.0645	2331.37	37.364	0.0561
K94-023	60.6	1475.38	11.182	0.000918	1562.28	0.00163	1957.09	30.788	0.00907	2217.1	30.932	0.0836	NULL	NULL	NULL	2321.13	35.283	0.0684
K94-023	63.6	1484.3	15.456	0.000525	1565.29	0.00168	1950.03	32.686	0.00586	2202.18	29.568	0.0749	NULL	NULL	NULL	2322.54	37.854	0.0587
K94-023	66.6	1475.44	13.635	0.00884	1565.86	0.00844	1919.25	33.832	0.0181	2227.86	20.633	0.0133	2254.57	20.524	0.0874	2349.24	38.731	0.0977
K94-023	69.6	1472.26	16.451	0.0088	1559.22	0.00892	1918.84	31.028	0.0212	2227.38	19.331	0.0103	2254.56	19.531	0.0829	2349.4	38.806	0.0917
K94-023	72.6	1472.27	11.81	0.0117	1538.46	0.0105	1921.7	36.727	0.0185	NULL	NULL	NULL	2260.16	20.72	0.0772	2340.54	39.924	0.0906
K94-023	75.6	NULL	NULL	NULL	NULL	NULL	1909.41	30.016	0.171	2206.11	33.085	0.326	NULL	NULL	NULL	2346.4	39.434	0.194
K94-023	78.6	NULL	NULL	NULL	NULL	NULL	1910.19	30.82	0.158	2206.72	32.576	0.299	NULL	NULL	NULL	2345.13	38.908	0.181
K94-023	81.6	NULL	NULL	NULL	NULL	NULL	1909.79	30.585	0.159	2206.58	32.584	0.31	NULL	NULL	NULL	2345.77	39.3	0.187
K94-023	84.6	NULL	NULL	NULL	1545.21	0.00483	1914.27	37.334	0.0634	2215.05	34.27	0.351	NULL	NULL	NULL	2351.45	39.258	0.228
K94-023	87.6	NULL	NULL	NULL	1544.26	0.002	1919.54	39.343	0.0362	2214.7	33.855	0.353	NULL	NULL	NULL	2350.63	37.468	0.235
K94-023	90.6	NULL	NULL	NULL	1544.95	0.00209	1919.74	39.586	0.0364	2215.74	33.966	0.357	NULL	NULL	NULL	2352.2	37.808	0.233
K94-023	93.6	1473.64	12.463	0.000842	1561.84	0.00102	1919.26	27.483	0.00406	NULL	NULL	NULL	2248.42	16.932	0.0347	2321.79	35.347	0.029
K94-023	96.6	1476.2	10.298	0.000509	1564.4	0.00104	1946.77	33.993	0.00349	2221.18	27.285	0.042	2240.38	14.279	0.0418	2332.2	30.012	0.0373
K94-023	99.6	1472.41	11.706	0.000618	1565.14	0.00152	1903.11	28.745	0.0037	2219.11	28.865	0.0383	2249.7	13.633	0.0398	2316	33.313	0.0327
K94-023	102.6	NULL	NULL	NULL	NULL	NULL	1928.36	44.359	0.196	2212.89	32.98	0.142	NULL	NULL	NULL	2349.75	33.763	0.0608
K94-023	105.6	NULL	NULL	NULL	NULL	NULL	1926.98	43.794	0.162	2213.12	32.737	0.164	NULL	NULL	NULL	2350.79	32.779	0.0772
K94-023	108.6	NULL	NULL	NULL	NULL	NULL	1928	43.852	0.179	2214.09	32.85	0.179	NULL	NULL	NULL	2350.85	34.321	0.0861
K94-023	111.6	NULL	NULL	NULL	NULL	NULL	1910.42	32.582	0.167	2200.86	31.596	0.347	NULL	NULL	NULL	2345.95	38.52	0.189
K94-023	114.6	NULL	NULL	NULL	1539.88	0.003	1910.01	32.565	0.16	2200.48	31.465	0.339	NULL	NULL	NULL	2348.58	38.698	0.179
K94-023	117.6	NULL	NULL	NULL	NULL	NULL	1910.12	32.642	0.16	2200.54	31.564	0.348	NULL	NULL	NULL	2346.08	38.901	0.184

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HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K94-023	120.6	NULL	NULL	NULL	1564.1	0.00119	1939.97	39.48	0.04	2212.98	34.214	0.335	NULL	NULL	NULL	2348.93	37.944	0.214
K94-023	123.6	NULL	NULL	NULL	1562.51	0.00082	1935.8	38.65	0.0361	2212.61	34.039	0.334	NULL	NULL	NULL	2347.86	37.939	0.222
K94-023	126.6	NULL	NULL	NULL	1564.17	0.000927	1940.46	37.136	0.0367	2213.51	34.148	0.336	NULL	NULL	NULL	2349.41	37.76	0.222
K94-023	129.6	1474.49	11.68	0.00078	1563.18	0.00192	1918.35	36.262	0.0272	2221.9	27.839	0.143	2248.01	19.068	0.175	2335.66	41.923	0.218
K94-023	132.6	1475.18	12.788	0.00118	1564.91	0.00149	1911.91	37.739	0.0258	2223.33	28.539	0.166	2247.79	19.69	0.182	2333.43	43.16	0.22
K94-023	135.6	NULL	NULL	NULL	1539.17	0.0013	1920.61	36.061	0.0251	2222.92	28.756	0.165	2247.15	19.228	0.187	2340.93	42.406	0.23
K94-023	138.6	NULL	NULL	NULL	1540.64	0.00465	1931.62	44.226	0.153	2205.14	33.614	0.379	NULL	NULL	NULL	2348.2	38.831	0.217
K94-023	141.6	NULL	NULL	NULL	NULL	NULL	1927.77	43.507	0.15	2204.32	33.626	0.39	NULL	NULL	NULL	2348.72	39.166	0.226
K94-023	144.6	NULL	NULL	NULL	NULL	NULL	1929.03	44.841	0.131	2204.55	33.462	0.378	NULL	NULL	NULL	2347.52	37.906	0.218
K94-023	147.5	1475.2	11.978	0.000858	1560.92	0.00194	1918.7	38.466	0.0515	2223.75	25.185	0.138	2247.06	19.429	0.128	2334.67	41.197	0.201
K94-023	150.6	1474.79	10.228	0.00106	1562	0.00178	1917.65	36.5	0.0465	2224.19	25.683	0.135	2247.54	19.581	0.123	2330.88	41.4	0.188
K94-023	153.6	1473	13.905	0.000402	1560.56	0.00193	1915.51	36.09	0.0462	2223.24	25.346	0.139	2247.8	19.432	0.129	2335.35	40.836	0.199
K94-023	156.6	NULL	NULL	NULL	1552.04	0.00302	1918.55	34.615	0.0131	2222.95	26.57	0.19	2248.31	20.228	0.167	2341.79	40.788	0.252
K94-023	159.6	NULL	NULL	NULL	1561.1	0.00308	1917.79	38.934	0.0109	2222.94	26.48	0.189	2248.01	20.193	0.163	2342.11	41.004	0.247
K94-023	162.6	1472.66	13.65	0.00079	1563.51	0.00262	1919.66	39.706	0.0117	2223.87	26.32	0.176	2247.86	20.199	0.161	2341.83	41.208	0.241
K94-023	171.6	NULL	NULL	NULL	1546.72	0.0226	NULL	NULL	NULL	NULL	NULL	NULL	2253.19	19.344	0.213	2337.33	34.144	0.232
K94-023	174.6	NULL	NULL	NULL	1556.47	0.0226	1951.82	39.902	0.0729	NULL	NULL	NULL	2252.56	19.215	0.215	2338.01	35.72	0.233
K94-023	183.6	NULL	NULL	NULL	1547.15	0.0241	1956.26	34.878	0.0693	NULL	NULL	NULL	2252.54	19.741	0.212	2341.24	33.895	0.241
K94-023	188.6	NULL	NULL	NULL	1547.44	0.0118	1907.85	30.375	0.0401	2213.8	35.574	0.435	NULL	NULL	NULL	2347.14	40.953	0.29
K94-023	193.6	NULL	NULL	NULL	1546.5	0.00958	1906.61	30.252	0.0403	2214.21	35.529	0.448	NULL	NULL	NULL	2348.9	41.166	0.292
K94-023	198.6	NULL	NULL	NULL	NULL	NULL	1908.38	30.432	0.0362	2213.69	35.278	0.436	NULL	NULL	NULL	2347.72	40.978	0.286
K94-023	203.6	1473.35	12.248	0.00271	1547.4	0.00346	1914.85	33.075	0.0253	2209.51	33.764	0.359	NULL	NULL	NULL	2347.09	38.925	0.216
K94-023	208.6	NULL	NULL	NULL	1546.52	0.00415	1913.92	35.449	0.025	2208.97	33.796	0.357	NULL	NULL	NULL	2347.34	38.753	0.218
K94-023	211.6	NULL	NULL	NULL	1546.22	0.00398	1909.96	36.017	0.0234	2209.47	33.917	0.358	NULL	NULL	NULL	2347.79	38.217	0.222
K94-023	214.6	NULL	NULL	NULL	1550.25	0.00647	1907.12	32.03	0.0276	2211.84	33.952	0.408	NULL	NULL	NULL	2349.52	37.226	0.255
K94-023	217.6	NULL	NULL	NULL	1547.7	0.00682	1907.94	32.952	0.0311	2211.67	33.872	0.411	NULL	NULL	NULL	2351.71	37.772	0.259
K94-023	220.6	NULL	NULL	NULL	1547.97	0.00722	1911.72	31.725	0.0329	2211.63	33.819	0.427	NULL	NULL	NULL	2350.42	37.376	0.271
K94-023	223.6	1471.56	10.837	0.000431	1552.94	0.00118	1915.53	44.806	0.00811	2212.33	32.833	0.213	NULL	NULL	NULL	2352.77	35.929	0.116
K94-023	226.6	NULL	NULL	NULL	1550.33	0.00318	1905.62	33.062	0.00563	2210.56	35.416	0.339	NULL	NULL	NULL	2344.12	40.174	0.209
K94-023	229.6	NULL	NULL	NULL	1549.57	0.00356	1906.02	27.399	0.0161	2218.69	33.134	0.342	NULL	NULL	NULL	2352.4	40.989	0.202
K94-023	232.6	NULL	NULL	NULL	1546.66	0.000435	1909.87	37.508	0.0526	2208.85	28.034	0.0845	NULL	NULL	NULL	2341.3	37.786	0.0277
K94-023	235.6	NULL	NULL	NULL	NULL	NULL	1911.32	35.464	0.209	2208.37	29.068	0.345	NULL	NULL	NULL	2345.62	39.61	0.182
K94-023	238.6	NULL	NULL	NULL	1553.27	0.00261	1912.51	40.229	0.0165	2214.94	33.87	0.362	NULL	NULL	NULL	2351.02	38.898	0.22
K94-023	241.6	1476.36	18.869	0.000881	1539.77	0.00148	1939.86	36.719	0.0222	2212.13	32.936	0.178	NULL	NULL	NULL	2355.31	34.23	0.115
K94-023	244.6	1490.37	12.729	0.000619	1547.47	0.00176	1943.52	32.884	0.0129	2211.47	31.963	0.19	NULL	NULL	NULL	2350.61	35.071	0.11
K94-023	247.6	NULL	NULL	NULL	1548.33	0.000622	1937.34	43.429	0.0265	2211.04	33.159	0.272	NULL	NULL	NULL	2344.14	37.604	0.169
K94-023	250.6	1471.27	10.321	0.000278	1548.39	0.00191	1913.15	30.891	0.0151	2209.13	34.045	0.312	NULL	NULL	NULL	2350.4	37.564	0.193

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K94-023	253.7	NULL	NULL	NULL	1545.47	0.0034	1914.98	39.956	0.0202	2208.72	33.55	0.341	NULL	NULL	NULL	2347.91	37.434	0.207
K94-023	256.6	NULL	NULL	NULL	1545.85	0.00133	1943.54	38.581	0.0221	2209.46	33.418	0.269	NULL	NULL	NULL	2348.69	36.257	0.156
K94-033	17.8	1485.3	18.194	0.000357	1546.64	0.00136	1939.78	39.772	0.0182	2210.15	33.236	0.28	NULL	NULL	NULL	2349.24	36.105	0.163
K94-033	22.8	1488.65	17.211	0.00257	1546.32	0.00182	1939.92	34.441	0.0311	2208.88	31.025	0.135	NULL	NULL	NULL	2344.82	36.229	0.0713
K94-033	27.8	1488.79	20.105	0.00137	1550.41	0.0023	1935.1	38.315	0.0221	2210.73	31.45	0.166	NULL	NULL	NULL	2347.5	34.526	0.0899
K94-033	32.8	1492.88	11.615	0.000715	1557.85	0.000749	1937.24	41.416	0.0271	2208.43	32.379	0.138	NULL	NULL	NULL	2356.81	34.402	0.081
K94-033	37.8	NULL	NULL	NULL	1550.51	0.0111	1920.68	38.863	0.0443	2210.43	34.689	0.375	NULL	NULL	NULL	2349.67	38.589	0.226
K94-033	42.8	1473.25	20.058	0.000441	1546.7	0.00136	1939.82	37.155	0.0252	2212.9	33.412	0.18	2242.97	14.854	0.0662	2349.89	38.37	0.0979
K94-033	47.8	1494.33	11.55	0.000319	1546.67	0.00115	1920.58	42.789	0.0112	2212.87	34.075	0.245	NULL	NULL	NULL	2348.64	38.177	0.145
K94-033	52.8	1472.26	16.597	0.000502	1564.57	0.00234	1914.8	42.72	0.00922	2213.65	33.112	0.233	NULL	NULL	NULL	2347.99	36.495	0.133
K94-033	57.8	NULL	NULL	NULL	NULL	NULL	1942.77	45.822	0.0726	NULL	NULL	NULL	NULL	NULL	NULL	2329.49	44.509	0.257
K94-033	62.8	1492.29	14.839	0.00098	1554.84	0.00109	1920.96	29.284	0.0115	2216.28	31.471	0.0363	2251.72	17.642	0.045	2348.1	35.129	0.0465
K94-033	67.8	NULL	NULL	NULL	NULL	NULL	1950.75	41.727	0.0335	2227.99	21.898	0.0373	NULL	NULL	NULL	2328.24	45.104	0.193
K94-033	72.8	NULL	NULL	NULL	1550.78	0.00196	1910.93	36.506	0.0273	2215.54	35.347	0.411	NULL	NULL	NULL	2345.54	41.415	0.252
K94-033	77.8	NULL	NULL	NULL	1540.18	0.00213	1932.89	43.378	0.0834	2219.05	33.374	0.407	NULL	NULL	NULL	2349.02	40.294	0.269
K94-033	82.8	NULL	NULL	NULL	1551.25	0.00383	1911.17	34.962	0.0404	2210.66	37.23	0.673	NULL	NULL	NULL	2347.5	41.86	0.455
K94-033	87.8	1470.38	9.627	0.000894	1546.98	0.000669	1911.81	35.598	0.0191	2217.9	33.382	0.31	NULL	NULL	NULL	2350.7	40.208	0.202
K94-033	92.8	NULL	NULL	NULL	1541.7	0.000785	1940.46	46.556	0.0409	2208.63	28.765	0.0369	NULL	NULL	NULL	2337.1	40.591	0.0134
K94-033	97.8	NULL	NULL	NULL	1537.93	0.00361	1912.13	31.668	0.0474	2207.88	28.654	0.0476	NULL	NULL	NULL	2346.93	33.711	0.0212
K94-033	102.8	1470.6	14.421	0.00252	1545.6	0.00052	1923.63	39.009	0.0263	2219.52	30.271	0.276	NULL	NULL	NULL	2349.89	38.04	0.177
K94-033	107.8	NULL	NULL	NULL	1543.02	0.000423	1922.05	36.729	0.0149	2219.56	30.383	0.27	NULL	NULL	NULL	2350.88	37.933	0.174
K94-033	110.8	NULL	NULL	NULL	1551.24	0.000558	1923.72	36.579	0.0166	2219.42	30.481	0.261	NULL	NULL	NULL	2350.92	37.73	0.166
K94-033	113.8	NULL	NULL	NULL	1546.92	0.000612	1911.48	32.56	0.0411	2218.17	32.023	0.298	NULL	NULL	NULL	2350.18	38.612	0.191
K94-033	116.8	NULL	NULL	NULL	1538.6	0.00123	1908.86	32.162	0.0349	2217.42	32.572	0.223	NULL	NULL	NULL	2349.64	40.237	0.133
K94-033	119.8	1470.02	12.255	0.00329	1549.41	0.000639	1907.88	31.791	0.0335	2218	32.072	0.293	2243.68	18.782	0.183	2350	39.324	0.176
K94-033	121.8	NULL	NULL	NULL	NULL	NULL	1928.81	46.242	0.165	2211.53	31.549	0.0797	NULL	NULL	NULL	2342	37.971	0.0434
K94-033	125.8	NULL	NULL	NULL	NULL	NULL	1927.27	42.04	0.0906	2211.01	32.204	0.0819	NULL	NULL	NULL	2344.09	39.216	0.044
K94-033	127.8	NULL	NULL	NULL	NULL	NULL	1920.24	42.421	0.094	2209.6	30.142	0.0584	2242.94	17.882	0.0235	2345.43	39.784	0.0343
K94-033	130.8	1470.37	14.754	0.00819	1539.52	0.00156	1921.95	38.868	0.0575	2216.24	33.247	0.276	NULL	NULL	NULL	2351.33	38.599	0.175
K94-033	133.8	NULL	NULL	NULL	1544.61	0.00182	1928.99	42.271	0.0475	2216.89	33.33	0.269	NULL	NULL	NULL	2351.22	39.114	0.159
K94-033	136.8	NULL	NULL	NULL	1538.48	0.00182	1916.47	41.096	0.0499	2216.34	32.914	0.276	NULL	NULL	NULL	2346.66	39.757	0.163
K94-033	139.8	NULL	NULL	NULL	1568.87	0.000464	1937.92	38.297	0.0405	2219.07	28.99	0.157	2242.42	18.657	0.0865	2347.4	37.666	0.1
K94-033	142.8	NULL	NULL	NULL	NULL	NULL	1940.95	36.425	0.0348	2218.81	29.641	0.175	NULL	NULL	NULL	2347.35	38.37	0.112
K94-033	145.8	NULL	NULL	NULL	1539.5	0.000674	1939.3	33.995	0.0326	2218.57	29.704	0.173	NULL	NULL	NULL	2350.41	38.555	0.114
K94-033	148.8	1470.08	15.966	0.0178	1539.08	0.00581	1915.9	38.689	0.0961	2215.58	33.844	0.364	NULL	NULL	NULL	2350.15	39.314	0.224
K94-033	151.8	NULL	NULL	NULL	1538.64	0.00426	1914.22	37.561	0.0809	2215.84	33.699	0.356	NULL	NULL	NULL	2350.95	38.576	0.219
K94-033	154.8	NULL	NULL	NULL	NULL	NULL	1913.42	38.561	0.0827	2215.88	33.716	0.359	NULL	NULL	NULL	2349.07	39.104	0.222

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K94-033	157.8	NULL	NULL	NULL	1556.4	0.000924	1909.52	33.383	0.0916	2215.91	33.731	0.342	NULL	NULL	NULL	2349.29	39.304	0.21
K94-033	160.8	NULL	NULL	NULL	1544.89	0.00115	1908.23	30.968	0.0702	2215.39	33.637	0.345	NULL	NULL	NULL	2352.13	39.036	0.211
K94-033	163.8	NULL	NULL	NULL	1561.56	0.000648	1909.01	31.607	0.0764	2214.44	33.862	0.317	NULL	NULL	NULL	2350.4	39.362	0.191
K94-033	166.9	NULL	NULL	NULL	1556.7	0.000521	1911.22	33.272	0.0985	2213.37	33.595	0.316	NULL	NULL	NULL	2349.99	38.308	0.19
K94-033	169.8	NULL	NULL	NULL	1558.56	0.000606	1908.3	29.405	0.0841	2213.26	33.887	0.326	NULL	NULL	NULL	2349.31	38.22	0.199
K94-033	172.8	NULL	NULL	NULL	1542.29	0.000267	1909.44	29.456	0.0706	2213.98	33.823	0.314	NULL	NULL	NULL	2353.15	38.476	0.189
K94-033	175.8	NULL	NULL	NULL	1553.96	0.000819	1911.17	32.868	0.0471	2213.78	34.231	0.285	NULL	NULL	NULL	2347.2	39.369	0.169
K94-033	178.8	NULL	NULL	NULL	1549.23	0.000554	1908.85	31.012	0.0337	2213.96	34.203	0.287	NULL	NULL	NULL	2351.27	38.474	0.176
K94-033	181.8	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2214.81	33.832	0.251	NULL	NULL	NULL	2341.15	40.167	0.15
K94-033	184.9	NULL	NULL	NULL	NULL	NULL	1951.69	43.159	0.0191	2215.39	33.677	0.215	NULL	NULL	NULL	2341.41	40.763	0.152
K94-033	187.8	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2214.71	34.19	0.266	NULL	NULL	NULL	2345.61	40.301	0.153
K94-033	190.8	NULL	NULL	NULL	1544.62	0.00102	1911.65	38.477	0.0438	2213.46	33.826	0.312	NULL	NULL	NULL	2349.93	38.041	0.19
K94-033	193.8	NULL	NULL	NULL	1542.68	0.00205	1913.9	40.447	0.0621	2213.64	34.011	0.297	NULL	NULL	NULL	2350.54	38.181	0.176
K94-033	196.8	NULL	NULL	NULL	1547.99	0.00121	1913.15	38.429	0.0445	2213.22	33.947	0.316	NULL	NULL	NULL	2352.93	38.017	0.19
K94-033	199.8	NULL	NULL	NULL	1540.32	0.0189	1910.59	32.131	0.0353	2211.83	35.13	0.332	NULL	NULL	NULL	2350.08	40.216	0.195
K94-033	202.8	NULL	NULL	NULL	NULL	NULL	1913.86	36.651	0.0463	2212.04	35.127	0.302	NULL	NULL	NULL	2346.91	39.775	0.178
K94-033	205.8	NULL	NULL	NULL	NULL	NULL	1912.7	32.383	0.0329	2211.64	34.663	0.329	NULL	NULL	NULL	2350.91	39.175	0.193
K94-033	208.8	NULL	NULL	NULL	NULL	NULL	1941.56	43.582	0.0368	2212.34	34.969	0.307	NULL	NULL	NULL	2347.18	41.033	0.179
K94-033	211.8	NULL	NULL	NULL	NULL	NULL	1935.85	45.406	0.0634	2212.43	34.893	0.299	NULL	NULL	NULL	2344.25	39.801	0.177
K94-033	214.8	NULL	NULL	NULL	NULL	NULL	1938.12	44.205	0.0376	2212.17	35.109	0.308	NULL	NULL	NULL	2341.42	41.466	0.181
K94-033	217.8	NULL	NULL	NULL	NULL	NULL	1938.13	46.436	0.0345	2212.5	34.863	0.317	NULL	NULL	NULL	2348.76	40.805	0.18
K94-033	220.8	1470.23	13.395	0.00566	1555.77	0.000579	1924.81	39.436	0.017	2214.37	33.681	0.285	NULL	NULL	NULL	2351.91	38.756	0.167
K94-033	223.8	NULL	NULL	NULL	1538.5	0.0023	1913.66	36.207	0.0105	2214.27	33.905	0.281	NULL	NULL	NULL	2350.3	38.201	0.169
K94-033	226.8	NULL	NULL	NULL	1542.46	0.00186	1915.51	38.668	0.00871	2213.63	33.847	0.287	NULL	NULL	NULL	2352.58	38.227	0.174
K94-033	229.8	NULL	NULL	NULL	1544.71	0.000953	1934.91	41.307	0.0208	2213.02	33.568	0.212	NULL	NULL	NULL	2351.08	37.937	0.127
K95-071	10	NULL	NULL	NULL	1551.68	0.000666	1941.05	30.577	0.0212	2213.21	32.892	0.2	NULL	NULL	NULL	2348.73	36.95	0.119
K95-071	13	NULL	NULL	NULL	NULL	NULL	1942.67	39.729	0.0155	2213.67	33.494	0.204	NULL	NULL	NULL	2349.49	37.923	0.123
K95-071	16	NULL	NULL	NULL	NULL	NULL	1934.68	46.671	0.276	2184.39	32.701	0.0145	2241.53	19.744	0.00491	2331.13	29.484	0.00701
K95-071	19	NULL	NULL	NULL	NULL	NULL	1927.96	45.21	0.247	2191.72	29.432	0.0125	2242.62	13.935	0.00325	NULL	NULL	NULL
K95-071	22	NULL	NULL	NULL	NULL	NULL	1930.29	45.151	0.243	2185.89	26.962	0.0119	2262.87	16.951	0.0029	2354.68	22.9	0.00415
K95-071	25	NULL	NULL	NULL	1548.03	0.00076	1920.95	42.542	0.014	2215.18	32.877	0.32	NULL	NULL	NULL	2348.96	37.331	0.21
K95-071	28	1472.99	13.337	0.00159	1560.12	0.000576	1924.08	39.698	0.0106	2215.27	32.712	0.33	NULL	NULL	NULL	2350	37.504	0.206
K95-071	31	NULL	NULL	NULL	1556.8	0.000889	1932.56	35.676	0.0113	2215.6	32.698	0.311	NULL	NULL	NULL	2349.79	37.685	0.2
K95-071	34	NULL	NULL	NULL	NULL	NULL	1935.65	43.721	0.0498	2213.97	34.278	0.307	NULL	NULL	NULL	2350.87	39.255	0.183
K95-071	37	NULL	NULL	NULL	NULL	NULL	1937.61	41.847	0.0339	2213.84	34.361	0.309	NULL	NULL	NULL	2351.13	38.574	0.186
K95-071	40	NULL	NULL	NULL	NULL	NULL	1939.45	42.402	0.0348	2213.32	34.083	0.31	NULL	NULL	NULL	2349.68	39.645	0.181
K95-071	43	NULL	NULL	NULL	NULL	NULL	1914.63	39.043	0.107	2212.92	34.755	0.342	NULL	NULL	NULL	2352.44	40.418	0.196

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K95-071	46	NULL	NULL	NULL	NULL	NULL	1910.19	34.608	0.0746	2212.97	34.857	0.345	NULL	NULL	NULL	2345.64	39.396	0.2
K95-071	49	NULL	NULL	NULL	NULL	NULL	1910.54	32.881	0.074	2212.94	34.794	0.363	NULL	NULL	NULL	2349.4	39.615	0.212
K95-071	52	NULL	NULL	NULL	NULL	NULL	1910.58	35.891	0.0692	2213.6	35.175	0.411	NULL	NULL	NULL	2346.92	40.219	0.252
K95-071	55	NULL	NULL	NULL	NULL	NULL	1909.86	33.443	0.0568	2213.41	35.201	0.415	NULL	NULL	NULL	2348.4	39.994	0.257
K95-071	58	NULL	NULL	NULL	NULL	NULL	1910.38	34.038	0.058	2213.16	35.095	0.413	NULL	NULL	NULL	2350.56	39.867	0.258
K95-071	60.9	NULL	NULL	NULL	1545.62	0.000416	1917.71	38.233	0.0392	2212.03	32.985	0.255	NULL	NULL	NULL	2352.74	38.01	0.149
K95-071	64	NULL	NULL	NULL	1558.77	0.000517	1914.14	35.147	0.0292	2212.12	32.942	0.256	NULL	NULL	NULL	2348.24	37.699	0.146
K95-071	67	NULL	NULL	NULL	1558.71	0.00059	1910.2	30.944	0.0323	2212.25	33.26	0.26	NULL	NULL	NULL	2352.3	37.385	0.157
K95-071	70	NULL	NULL	NULL	1540.03	0.00451	1909.56	34.029	0.0225	2213.28	34.906	0.271	NULL	NULL	NULL	2352.45	39.831	0.149
K95-071	73	NULL	NULL	NULL	1537.24	0.00842	1908.04	34.468	0.0144	2211.78	34.427	0.264	NULL	NULL	NULL	2347.42	39.796	0.154
K95-071	76	NULL	NULL	NULL	1540.64	0.00584	1913.99	32.086	0.0143	2212.11	34.702	0.28	NULL	NULL	NULL	2349.25	39.202	0.163
K95-071	79	NULL	NULL	NULL	1544.09	0.000987	1940.63	38.694	0.034	2214.56	32.735	0.177	NULL	NULL	NULL	2347.64	38.011	0.101
K95-071	82	NULL	NULL	NULL	1540.91	0.00104	1938.21	36.328	0.0277	2213.05	32.716	0.178	2240.21	14.985	0.0729	2349.17	38.049	0.104
K95-071	85	1472.7	18.9	0.0053	1537.45	0.0014	1937.53	36.825	0.0273	2213.38	32.623	0.175	NULL	NULL	NULL	2348.19	36.423	0.104
K95-071	88	1472.94	15.582	0.00132	1565.32	0.000885	1919.39	39.209	0.0231	2213.48	33.703	0.213	NULL	NULL	NULL	2350.64	37.573	0.128
K95-071	91	NULL	NULL	NULL	1550.08	0.000699	1920.66	41.136	0.0185	2214.95	33.547	0.216	NULL	NULL	NULL	2353.93	37.816	0.131
K95-071	94	NULL	NULL	NULL	1556.48	0.00109	1916.54	42.845	0.0204	2214.26	33.643	0.231	NULL	NULL	NULL	2349.79	37.934	0.14
K95-071	97	1470.12	16.023	0.0246	NULL	NULL	1913.88	33.149	0.0394	2213.9	33.836	0.228	NULL	NULL	NULL	2346.22	38.933	0.128
K95-071	100	NULL	NULL	NULL	NULL	NULL	1914.83	32.909	0.0316	2213.74	33.807	0.234	NULL	NULL	NULL	2347.7	38.078	0.135
K95-071	130.6	NULL	NULL	NULL	NULL	NULL	1912.96	32.542	0.0369	2213.32	33.732	0.236	NULL	NULL	NULL	2349.05	38.737	0.137
K95-071	133.6	NULL	NULL	NULL	1547.77	0.00331	1926.82	41.15	0.0727	2212.24	33.954	0.257	NULL	NULL	NULL	2348.71	37.961	0.15
K95-071	136.6	NULL	NULL	NULL	1548.06	0.00325	1920.42	39.205	0.0706	2212.27	34.056	0.262	NULL	NULL	NULL	2349.18	38.256	0.153
K95-071	139.6	NULL	NULL	NULL	1537.54	0.00271	1921.46	40.107	0.064	2212.29	34.012	0.27	NULL	NULL	NULL	2349.92	37.775	0.156
K95-071	142.6	NULL	NULL	NULL	1549.41	0.000576	1921.41	37.012	0.0283	2212.26	34.882	0.317	NULL	NULL	NULL	2349.62	38.577	0.194
K95-071	145.6	NULL	NULL	NULL	1561.2	0.00116	1919.55	38.482	0.0269	2211.96	34.87	0.325	NULL	NULL	NULL	2349.48	39.164	0.198
K95-071	150.6	1473.54	13.97	0.00456	1550.71	0.00146	1919.3	39.799	0.0265	2211.27	34.745	0.34	NULL	NULL	NULL	2348.11	38.826	0.208
K95-071	155.6	1489.72	13.32	0.000545	1549.15	0.00171	1942.75	40.697	0.0162	2210.85	33.892	0.273	NULL	NULL	NULL	2348.41	38.265	0.168
K95-071	160.6	NULL	NULL	NULL	1547.53	0.00173	1938.65	41.835	0.0151	2210.45	34.018	0.28	NULL	NULL	NULL	2349.29	38.249	0.167
K95-071	165.7	1470.35	9.201	0.00139	1542.75	0.00142	1940.82	43.83	0.0161	2210.75	33.605	0.272	NULL	NULL	NULL	2348.17	37.921	0.163
K95-071	170.6	NULL	NULL	NULL	1539.78	0.00428	1941.74	37.72	0.123	2208.91	33.126	0.324	NULL	NULL	NULL	2347.59	38.15	0.177
K95-075	7.4	NULL	NULL	NULL	1544.79	0.00419	1941.15	37.07	0.116	2209.04	33.071	0.321	NULL	NULL	NULL	2348.36	38.177	0.18
K95-075	10	NULL	NULL	NULL	1545.29	0.00417	1940.4	37.372	0.106	2209.18	33.397	0.34	NULL	NULL	NULL	2349.26	37.988	0.192
K95-075	20.6	1470.13	12.764	0.00538	NULL	NULL	1940.02	44	0.0339	2208.46	31.326	0.26	NULL	NULL	NULL	2347.93	35.016	0.148
K95-075	23.9	1472.81	13.268	0.00428	1546.45	0.00162	1936.37	44.223	0.0334	2208.17	31.114	0.263	NULL	NULL	NULL	2350.41	35.836	0.149
K95-075	38.2	NULL	NULL	NULL	1542.69	0.0023	1937.27	41.894	0.0323	2208.04	30.946	0.26	NULL	NULL	NULL	2349.56	36.269	0.149
K95-075	41.2	1473.92	19.21	0.00101	NULL	NULL	1934.69	36.592	0.0137	2209.7	32.215	0.197	NULL	NULL	NULL	2349.29	35.534	0.107
K95-075	44.1	1471.2	18.442	0.00135	1545.53	0.00135	1936.52	39.747	0.0121	2209.7	32.067	0.199	NULL	NULL	NULL	2346.24	35.441	0.106

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K95-075	47.2	1476.9	17.034	0.00194	1548.75	0.00128	1949.08	33.448	0.0127	2209.57	31.912	0.199	NULL	NULL	NULL	2350.4	34.966	0.109
K95-075	50.2	NULL	NULL	NULL	1558.33	0.00141	1918.13	36.186	0.00758	2209.38	32.233	0.251	NULL	NULL	NULL	2348.97	35.511	0.142
K95-075	53.6	NULL	NULL	NULL	1545.78	0.00174	1920.1	37.339	0.00976	2209.07	32.185	0.246	NULL	NULL	NULL	2349.58	36.216	0.141
K95-075	56.2	1470.67	12.079	0.000598	1549.15	0.00222	1919.65	36.635	0.00822	2209.15	32.256	0.262	NULL	NULL	NULL	2349.37	35.712	0.149
K95-075	59.2	NULL	NULL	NULL	1551.59	0.00238	1921.41	37.506	0.00933	2209.22	32.576	0.279	NULL	NULL	NULL	2349.45	35.809	0.159
K95-075	61.2	1478.24	12.741	0.00074	1545.81	0.00256	1920.22	37.816	0.00881	2209.34	32.596	0.279	NULL	NULL	NULL	2348.52	36.318	0.156
K95-075	64.2	1470.97	17.775	0.000857	1544.67	0.00272	1920.51	38.782	0.00855	2208.94	32.463	0.281	NULL	NULL	NULL	2348.53	36.316	0.153
K95-075	67.2	1476.44	9.875	0.000428	1548.28	0.00121	1917.08	33.615	0.0124	2209.93	32.496	0.179	NULL	NULL	NULL	2349.18	36.142	0.0975
K95-075	70.2	NULL	NULL	NULL	1559.76	0.00155	1915.38	38.724	0.0113	2209.98	32.549	0.192	NULL	NULL	NULL	2349.93	36.461	0.106
K95-075	73.2	NULL	NULL	NULL	1561.79	0.00136	1919.63	38.785	0.0123	2209.98	32.574	0.18	NULL	NULL	NULL	2347.75	36.373	0.0946
K95-075	76.2	1473.2	11.129	0.000524	1548.84	0.000707	1923.07	34.984	0.021	2214.18	27.761	0.0293	2241.79	19.936	0.0197	2335.46	30.196	0.013
K95-075	79.2	1478.35	13.072	0.000484	1546.86	0.000572	1920.07	40.672	0.0145	2208.05	23.719	0.0237	2251.05	14.256	0.014	NULL	NULL	NULL
K95-100	8.2	NULL	NULL	NULL	1566.58	0.000643	1919.7	37.741	0.0156	2210	31.591	0.028	2257.67	14.915	0.0191	2336.4	34.253	0.0178
K95-100	11.2	1488.43	12.437	0.000647	NULL	NULL	1922.14	34.029	0.00394	2222.29	26.356	0.0207	2250.87	14.251	0.0184	2329.12	23.946	0.0168
K95-100	14.2	1496.84	16.863	0.000302	1560.61	0.00089	NULL	NULL	NULL	2220.61	28.208	0.0223	2244.22	19.659	0.0211	2326.94	31.922	0.0181
K95-100	17.2	1491.87	10.77	0.000428	1567.54	0.000668	1919.76	34.975	0.00656	2219.9	34.574	0.0225	2250.54	12.716	0.0215	2357.23	32.099	0.0198
K95-100	20.2	1499.56	13.218	0.00202	NULL	NULL	1918.9	27.223	0.00229	2221.34	27.148	0.0618	2243.58	15.768	0.06	2323.77	33.05	0.055
K95-100	23.2	1497.85	25.269	0.000866	1567.26	0.00697	NULL	NULL	NULL	2217.12	30.438	0.0665	2244.33	11.525	0.0652	2321.91	41.107	0.0559
K95-100	26.2	1497.05	19.331	0.00116	1567.76	0.00705	1949.18	25.73	0.00326	2228.84	32.756	0.0683	2251.25	16.732	0.0665	2306.92	36.251	0.0643
K95-100	29.1	1475.76	13.024	0.001	NULL	NULL	1908.69	30.624	0.0366	2208.64	27.293	0.0928	NULL	NULL	NULL	2354.3	36.195	0.0484
K95-100	32.3	NULL	NULL	NULL	1550.81	0.000505	1909.36	35.515	0.0622	2208.01	24.194	0.103	NULL	NULL	NULL	2358.03	39.704	0.0424
K95-100	35.3	1470.35	15.765	0.000498	1565.28	0.00054	1911.41	37.001	0.0365	2208	27.361	0.0947	2243.98	16.864	0.0405	2351.92	38.06	0.0447
K95-100	38.4	NULL	NULL	NULL	1567.6	0.000728	NULL	NULL	NULL	2221.39	29.817	0.0412	2246.86	15.849	0.0383	2303.88	37.692	0.0248
K95-100	41.5	1486.47	10.542	0.000585	1562.48	0.000808	1919.37	38.819	0.0255	2225.21	29.346	0.0314	2242.97	16.996	0.0261	2324.83	28.208	0.0202
K95-117	5.4	1490.43	13.468	0.000489	1556.34	0.00098	1919.79	35.235	0.0281	2211.56	34.224	0.0294	NULL	NULL	NULL	2322.04	35.646	0.0143
K95-117	10.4	1488.74	14.089	0.000853	1561.24	0.00068	1922.15	36.988	0.0193	2213.84	34.057	0.0254	NULL	NULL	NULL	2316.14	32.406	0.0163
K95-117	15.4	1485.12	12.469	0.000364	1565.93	0.00104	1924.44	40.66	0.0193	2209.82	27.561	0.0284	2241.64	18.35	0.0281	2302.55	38.314	0.0206
K95-117	20.4	1495.64	14.835	0.000371	1564.2	0.000812	1912.79	37.136	0.0131	2213.96	30.665	0.0176	2242.23	48.157	0.0123	2323.59	30.241	0.0114
K95-117	23.4	1483.9	18.148	0.00066	1555.3	0.00123	1925.04	31.552	0.00423	2213.62	25.171	0.027	2244.95	12.858	0.0256	2338.93	32.848	0.023
K95-117	26.3	1498.91	11.305	0.000937	1564.68	0.00135	1951.18	31.305	0.00466	2216.43	35.543	0.0257	2244.82	16.176	0.0254	2308.3	41.285	0.0193
K95-117	29.4	1492.94	9.185	0.000375	1546.23	0.00103	1920.96	36.381	0.0058	2209.8	25.867	0.0274	2243.89	12.922	0.0263	2330.46	27.871	0.0231
K95-117	32.4	NULL	NULL	NULL	NULL	NULL	1917.13	33.693	0.0327	2218.48	32.134	0.269	NULL	NULL	NULL	2342.8	41.162	0.173
K95-117	35.4	NULL	NULL	NULL	NULL	NULL	1918.45	37.126	0.0323	2217.37	32.129	0.269	NULL	NULL	NULL	2342.19	41.186	0.175
K95-117	38.4	NULL	NULL	NULL	NULL	NULL	1917.29	35.782	0.0313	2217.22	32.411	0.265	NULL	NULL	NULL	2342.52	41.82	0.179
K95-117	41.4	1473.14	12.979	0.000752	1548.13	0.00218	1905.77	36.892	0.0153	2217.69	32.999	0.328	NULL	NULL	NULL	2349.46	38.059	0.212
K95-117	44.4	NULL	NULL	NULL	1552.8	0.00242	1919.46	37.285	0.0159	2217.46	32.926	0.333	NULL	NULL	NULL	2348.9	38.126	0.216
K95-117	47.4	NULL	NULL	NULL	1549.26	0.00188	1911.61	36.835	0.0161	2217.78	33.122	0.327	NULL	NULL	NULL	2351.5	38.663	0.217

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K95-117	50.4	NULL	NULL	NULL	1538.88	0.00603	1942.74	37.395	0.0526	2217.4	33.838	0.259	NULL	NULL	NULL	2344.17	40.031	0.16
K95-117	53.4	1473.32	16.639	0.00745	NULL	NULL	1940.62	38.349	0.0525	2216.7	33.489	0.259	2242.75	18.602	0.147	2343.23	39.359	0.157
K95-117	56.4	1472.18	17.417	0.00758	NULL	NULL	1941.43	36.979	0.052	2217.24	33.345	0.261	NULL	NULL	NULL	2345.57	37.932	0.165
K95-117	59.4	1471.46	16.186	0.0117	NULL	NULL	1940.48	38.824	0.0811	2212.02	29.549	0.0333	2242.44	19.229	0.0158	2356.14	38.766	0.0133
K95-117	62.4	1472.28	16.423	0.012	NULL	NULL	1942.09	37.325	0.0761	2212.89	32.995	0.0322	2240.37	13.011	0.0204	2355.32	33.488	0.0154
K95-117	65.4	NULL	NULL	NULL	NULL	NULL	1942.85	37.579	0.0769	2215.63	29.619	0.037	2241.49	14.755	0.0184	2346.12	37.993	0.0173
K95-117	68.4	NULL	NULL	NULL	1544.93	0.00109	1919.96	43.282	0.0687	2213.34	34.525	0.394	NULL	NULL	NULL	2350.04	37.831	0.253
K95-117	71.4	NULL	NULL	NULL	1552.11	0.00131	1914.87	42.974	0.0661	2213.27	34.7	0.393	NULL	NULL	NULL	2349	38.328	0.244
K95-117	74.4	NULL	NULL	NULL	1564.64	0.000713	1917.79	42.657	0.0613	2213.59	34.697	0.385	NULL	NULL	NULL	2350.07	37.86	0.244
K95-117	77.4	NULL	NULL	NULL	1560.2	0.00649	1948.01	37.252	0.0207	2219.74	30.545	0.0995	2252.22	19.14	0.128	2343.3	37.789	0.178
K95-117	80.4	1470.67	13.208	0.00242	1551.59	0.00847	1949.61	29.596	0.0178	2223.03	30.726	0.101	2253.01	19.236	0.132	2342.2	38.023	0.189
K95-117	83.4	NULL	NULL	NULL	1555.56	0.0113	1951.44	34.443	0.0165	2219.95	30.886	0.117	2252.52	18.371	0.136	2344.25	38.635	0.191
K95-117	86.4	NULL	NULL	NULL	1557.94	0.025	1913.21	32.659	0.0345	2222.6	29.088	0.188	2250.88	18.916	0.257	2338.63	40.584	0.34
K95-117	89.4	NULL	NULL	NULL	1558.01	0.0228	1911.25	26.464	0.0293	2224.57	28.53	0.162	2251.74	18.292	0.245	2335.46	41.141	0.333
K95-117	92.4	NULL	NULL	NULL	1545.45	0.022	1906.9	26.771	0.0303	2221.76	28.762	0.176	2251.34	18.146	0.248	2339.43	40.28	0.339
K95-117	95.4	NULL	NULL	NULL	1553.71	0.00755	1920.41	33.612	0.0156	2223.6	27.982	0.0999	2250.52	19.016	0.16	2340.42	40.462	0.263
K95-117	98.4	NULL	NULL	NULL	1557.6	0.00819	1919.9	35.753	0.0151	2222.92	28.025	0.102	2250.45	19.297	0.156	2339.61	40.042	0.259
K95-117	101.4	1490.15	11.012	0.000349	1556.56	0.0085	1919.64	37.856	0.0135	2222.86	28.243	0.0998	2250.42	19.137	0.157	2343.22	39.724	0.262
K95-117	104.3	NULL	NULL	NULL	1553.79	0.0111	1952.36	25.09	0.0369	2219.37	30.622	0.198	2250.28	19.986	0.18	2344.23	37.964	0.198
K95-117	107.2	NULL	NULL	NULL	1552.23	0.0114	1951.88	24.615	0.0325	2219.96	30.242	0.188	2250.19	19.833	0.173	2344.42	37.884	0.188
K95-117	110.4	NULL	NULL	NULL	1547.19	0.0109	1952.93	24.428	0.0316	2219.49	30.592	0.191	2249.99	19.695	0.176	2344.77	38.303	0.19
K95-117	113.4	NULL	NULL	NULL	1546.1	0.00529	1911.21	36.651	0.096	2209.62	34.164	0.296	NULL	NULL	NULL	2347.91	38.888	0.173
K95-117	116.4	NULL	NULL	NULL	NULL	NULL	1911.91	36.754	0.0978	2209.36	33.968	0.3	NULL	NULL	NULL	2346.52	38.564	0.177
K95-117	119.4	NULL	NULL	NULL	1544.81	0.0061	1911.97	37.841	0.095	2209.68	34.085	0.294	NULL	NULL	NULL	2346.94	38.727	0.173
K95-117	122.5	NULL	NULL	NULL	1545.95	0.0027	1912.27	40.649	0.0686	2208.34	33.276	0.326	NULL	NULL	NULL	2348.68	37.708	0.187
K95-117	125.4	NULL	NULL	NULL	1546.04	0.00319	1913.19	40.13	0.0649	2208.38	33.379	0.338	NULL	NULL	NULL	2349.31	37.748	0.196
K95-117	128.4	NULL	NULL	NULL	1547.03	0.00319	1912.65	39.905	0.0628	2208.6	33.245	0.337	NULL	NULL	NULL	2348.27	37.587	0.197
K95-117	131.4	NULL	NULL	NULL	NULL	NULL	1918.9	40.151	0.041	2207.3	34.109	0.307	NULL	NULL	NULL	2347.06	38.644	0.182
K95-117	134.4	1473.38	14.374	0.0101	NULL	NULL	1919.49	39.811	0.0331	2207.94	33.968	0.268	NULL	NULL	NULL	2345.9	38.699	0.153
K95-117	137.5	NULL	NULL	NULL	1538.48	0.00504	1919.29	40.314	0.0353	2207.38	33.944	0.279	NULL	NULL	NULL	2346.71	38.269	0.163
K95-117	140.4	NULL	NULL	NULL	NULL	NULL	1909.78	33.512	0.183	2206.5	34.256	0.407	NULL	NULL	NULL	2348.11	39.182	0.239
K95-117	143.4	NULL	NULL	NULL	NULL	NULL	1910.22	34.043	0.184	2206.5	34.204	0.404	NULL	NULL	NULL	2347.96	38.998	0.237
K95-117	149.4	NULL	NULL	NULL	NULL	NULL	1909.89	34.189	0.181	2206.21	34.109	0.403	NULL	NULL	NULL	2346.25	39.844	0.239
K95-117	152.1	NULL	NULL	NULL	1561.41	0.00052	1912.44	32.828	0.0703	2208.56	33.404	0.251	NULL	NULL	NULL	2350.03	38.197	0.147
K95-117	155.3	NULL	NULL	NULL	1561.97	0.000734	1911.16	35.152	0.0645	2208.53	33.809	0.248	NULL	NULL	NULL	2350.87	38.125	0.142
K95-117	158.2	NULL	NULL	NULL	1556.25	0.000655	1912.11	34.896	0.0681	2208.7	33.837	0.254	NULL	NULL	NULL	2349.44	37.156	0.152
K95-117	161.3	NULL	NULL	NULL	1562.87	0.00153	1911.44	34.168	0.0323	2207.19	32.496	0.142	2248.17	19.735	0.0715	2345.13	39.14	0.117

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K95-117	164.4	NULL	NULL	NULL	1560.29	0.00147	1912.16	35.289	0.0298	2205.92	32.731	0.137	2248.7	20.125	0.0766	2347.3	40.12	0.119
K95-117	167.4	1470.25	8.612	0.00151	1561.93	0.00128	1917.02	35.375	0.0301	2207.19	31.874	0.159	2248.77	20.047	0.0718	2345.62	39.547	0.118
K95-117	170.3	NULL	NULL	NULL	1556.88	0.00143	1913.33	33.446	0.0297	2205.09	33.078	0.226	2243.72	18.947	0.082	2346.65	37.349	0.155
K95-154	6.1	NULL	NULL	NULL	1565.03	0.00168	1919.59	35.152	0.0275	2207.19	32.657	0.205	2244.34	19.302	0.0826	2349.2	38.036	0.143
K95-154	11.1	NULL	NULL	NULL	1559.77	0.00195	1912.18	37.494	0.0258	2206.38	33.026	0.207	2247.8	20.965	0.0829	2350.89	37.992	0.147
K95-154	16.1	NULL	NULL	NULL	NULL	NULL	1921.04	44.297	0.131	2201.63	31.672	0.0476	NULL	NULL	NULL	2331.87	41.319	0.118
K95-154	21.1	NULL	NULL	NULL	NULL	NULL	1919.6	44.905	0.129	2202.74	31.404	0.0538	NULL	NULL	NULL	2328.42	39.812	0.122
K95-154	26.1	NULL	NULL	NULL	NULL	NULL	1920.78	43.883	0.128	2196.59	32.545	0.0485	NULL	NULL	NULL	2332.85	40.695	0.123
K95-154	31.1	1472.38	14.241	0.00659	1552.84	0.0086	1916.76	37.119	0.0252	2206.22	32.665	0.262	NULL	NULL	NULL	2349.15	36.83	0.176
K95-154	36.1	1473.48	11.644	0.00678	1556.04	0.00879	1918.68	31.293	0.0235	2206.13	32.504	0.269	2242.81	19.811	0.106	2350.8	36.263	0.182
K95-154	41.1	NULL	NULL	NULL	1565.29	0.00831	1919.99	32.27	0.0244	2205.15	32.671	0.26	2241.88	20.636	0.102	2349.82	37.495	0.171
K95-154	46.1	NULL	NULL	NULL	1548.77	0.00326	1911.49	43.517	0.0207	2214.97	33.543	0.264	NULL	NULL	NULL	2348.07	39.094	0.16
K95-154	51.1	NULL	NULL	NULL	1548.44	0.00331	1914.35	44.49	0.0202	2214.18	33.384	0.272	NULL	NULL	NULL	2349.18	39.313	0.159
K95-154	56.1	NULL	NULL	NULL	1545.05	0.0028	1913.7	42.477	0.021	2214.4	33.947	0.266	NULL	NULL	NULL	2349.65	40.35	0.152
K95-154	61.1	1472.68	15.549	0.00112	1549.89	0.00288	1909.88	32.885	0.012	2217.35	32.658	0.242	NULL	NULL	NULL	2351.39	38.901	0.147
K95-154	66.1	1473.17	18.918	0.000928	1546.56	0.00308	1915.51	31.261	0.0114	2215.96	31.765	0.242	NULL	NULL	NULL	2349.04	37.441	0.146
K95-154	71.1	NULL	NULL	NULL	1564.21	0.00286	1916.84	42.041	0.00943	2217.05	32.14	0.234	NULL	NULL	NULL	2344.88	38.597	0.149
K95-154	76.1	1470.25	8.08	0.0009	1547.37	0.00209	1907.83	37.814	0.00735	2216.77	32.803	0.299	NULL	NULL	NULL	2348	38.898	0.183
K95-154	81.1	NULL	NULL	NULL	1554.61	0.00211	1916.14	36.716	0.0087	2216.19	32.923	0.296	NULL	NULL	NULL	2350.47	39.91	0.175
K95-154	86.1	NULL	NULL	NULL	1548.47	0.00205	1908.02	36.517	0.0078	2216.21	33.183	0.296	NULL	NULL	NULL	2348.46	39.729	0.182
K95-154	96.1	NULL	NULL	NULL	1560.23	0.00228	1919.13	37.757	0.00924	2216.11	31.078	0.171	NULL	NULL	NULL	2349.45	35.425	0.0985
K95-154	101.1	1472.96	15.253	0.0012	1546.84	0.00151	1913.45	35.002	0.00591	2216.09	31.575	0.201	NULL	NULL	NULL	2352.11	36.513	0.121
K95-154	106.1	1473.58	17.006	0.000942	1565.76	0.00149	1912.2	42.3	0.00531	2215.57	30.794	0.19	NULL	NULL	NULL	2353.68	35.194	0.112
K95-154	111.1	NULL	NULL	NULL	1539.2	0.00106	1921.21	40.553	0.00972	2216.46	30.797	0.142	2242.54	17.656	0.0621	2343.42	37.748	0.0928
K95-154	116.1	1471.22	17.786	0.0106	1540.84	0.00302	1950.32	28.764	0.00863	2216.68	30.971	0.144	2240.71	15.325	0.0736	2351.37	38.937	0.106
K95-154	121.1	NULL	NULL	NULL	NULL	NULL	1953.03	37.624	0.00702	2216.07	30.69	0.143	NULL	NULL	NULL	2350.37	39.816	0.0932
K95-154	126.1	NULL	NULL	NULL	NULL	NULL	1909.08	31.813	0.103	2215.46	33.835	0.393	NULL	NULL	NULL	2348.05	39.601	0.238
K95-154	131.1	NULL	NULL	NULL	1541.44	0.00433	1908.97	32.103	0.0982	2215.2	33.797	0.392	NULL	NULL	NULL	2349.22	39.2	0.245
K95-154	136.1	NULL	NULL	NULL	1545.78	0.00467	1908.77	32.31	0.0972	2215.5	33.709	0.4	NULL	NULL	NULL	2349.81	39.736	0.245
K95-154	141.1	NULL	NULL	NULL	1547.35	0.00685	1910.35	34.555	0.114	2215.2	34.512	0.402	NULL	NULL	NULL	2349.58	40.426	0.257
K95-154	146.1	NULL	NULL	NULL	1548.47	0.00664	1910.76	34.988	0.109	2215.15	34.538	0.4	NULL	NULL	NULL	2350.77	40.284	0.254
K95-154	156.1	NULL	NULL	NULL	1549.31	0.00668	1910.38	35.061	0.113	2215.21	34.528	0.396	NULL	NULL	NULL	2346.93	40.664	0.244
K95-154	159.1	1473.17	13.39	0.00393	1548.1	0.00171	1922.8	38.783	0.0536	2216.98	32.93	0.314	NULL	NULL	NULL	2346.43	39.819	0.204
K95-154	162.1	NULL	NULL	NULL	1547.6	0.00148	1927.2	39.479	0.0556	2217.55	33.526	0.316	NULL	NULL	NULL	2348.99	39.646	0.204
K95-154	165.1	NULL	NULL	NULL	1549.59	0.00224	1925.04	38.143	0.0436	2215.99	33.705	0.321	NULL	NULL	NULL	2348.99	39.953	0.204
K95-154	168.1	NULL	NULL	NULL	1551.04	0.00151	1909.09	35.316	0.037	2216.71	33.496	0.302	NULL	NULL	NULL	2350.9	41.238	0.185
K95-154	171.1	NULL	NULL	NULL	1539.4	0.00196	1917.38	37.412	0.0372	2217.86	33.278	0.317	NULL	NULL	NULL	2348.9	40.933	0.193

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K95-154	174.1	1473.83	14.588	0.00966	NULL	NULL	1912.5	39.205	0.0356	2216.95	33.382	0.315	NULL	NULL	NULL	2347.57	41.075	0.195
K95-154	177.1	NULL	NULL	NULL	1546.87	0.00127	1920.6	36.792	0.0432	2212.6	34.079	0.271	NULL	NULL	NULL	2348.01	39.156	0.157
K95-154	180.1	NULL	NULL	NULL	NULL	NULL	1920.22	39.916	0.0385	2212.57	34.253	0.288	NULL	NULL	NULL	2349.49	39.121	0.168
K95-154	183.1	NULL	NULL	NULL	NULL	NULL	1919.8	40.332	0.0366	2213.05	34.202	0.271	NULL	NULL	NULL	2350.39	40.052	0.156
K95-154	186.1	1473.91	16.913	0.0157	NULL	NULL	1939.99	37.053	0.0374	2212.8	34.102	0.205	NULL	NULL	NULL	2342.17	39.713	0.115
K97-174	8.6	NULL	NULL	NULL	NULL	NULL	1941.43	36.688	0.0366	2212.58	34.406	0.212	NULL	NULL	NULL	2342.67	39.668	0.122
K97-174	13.6	1473.44	17.174	0.0129	NULL	NULL	1943.79	37.033	0.0377	2213.78	34.858	0.205	NULL	NULL	NULL	2343.74	38.981	0.121
K97-174	18.6	NULL	NULL	NULL	NULL	NULL	1946.31	47.035	0.0241	2213.28	33.804	0.247	NULL	NULL	NULL	2344.21	40.968	0.183
K97-174	23.6	NULL	NULL	NULL	NULL	NULL	1949	41.65	0.0213	2213.75	33.824	0.251	NULL	NULL	NULL	2341.23	40.354	0.173
K97-174	28.6	NULL	NULL	NULL	NULL	NULL	1951.49	42.067	0.0185	2213.36	33.903	0.25	NULL	NULL	NULL	2340.52	41.08	0.174
K97-174	33.6	1472.64	14.735	0.00173	NULL	NULL	1959.55	31.566	0.00869	2211.79	33.304	0.112	2254.54	21.115	0.0621	2353.45	34.53	0.0929
K97-174	38.6	1473.04	11.964	0.00148	1561.29	0.00182	1951.98	25.281	0.0076	2210.52	32.254	0.115	2248.76	20.532	0.0622	2340.13	38.575	0.0831
K97-174	43.6	NULL	NULL	NULL	1562.75	0.000734	1956.59	30.244	0.00628	2211.92	32.846	0.115	2249.44	22.313	0.0631	2346.47	35.991	0.0898
K97-174	48.6	NULL	NULL	NULL	NULL	NULL	1939.4	41.567	0.0827	2210.16	34.599	0.219	NULL	NULL	NULL	2344.45	39.105	0.117
K97-174	53.6	NULL	NULL	NULL	NULL	NULL	1940.51	39.565	0.0725	2210.41	34.713	0.217	NULL	NULL	NULL	2341.06	40.018	0.114
K97-174	38.6	NULL	NULL	NULL	NULL	NULL	1941.74	41.531	0.0734	2209.93	34.754	0.221	NULL	NULL	NULL	2341.8	39.936	0.118
K97-174	63.6	NULL	NULL	NULL	1566.23	0.00181	1942.52	42.506	0.0233	2212.45	33.564	0.0733	2252.07	18.075	0.0469	2347.72	38.307	0.0702
K97-174	68.6	1472.51	13.005	0.00275	NULL	NULL	1942.6	40.842	0.0224	2210.01	32.64	0.0796	2252.62	19.287	0.0543	2348.18	36.046	0.0763
K97-174	73.6	NULL	NULL	NULL	1551.34	0.00117	1949.5	40.846	0.0212	2211.37	33.736	0.0877	2252.24	19.64	0.0575	2352.82	36.124	0.0801
K97-174	76.6	NULL	NULL	NULL	1544.61	0.00153	1915.1	37.717	0.0153	2210.85	34.362	0.255	NULL	NULL	NULL	2345.76	39.391	0.145
K97-174	79.6	NULL	NULL	NULL	NULL	NULL	1913.17	36.052	0.0153	2210.09	34.639	0.26	NULL	NULL	NULL	2349.22	38.395	0.15
K97-174	82.6	NULL	NULL	NULL	NULL	NULL	1918.76	41.085	0.0137	2210.54	33.957	0.255	NULL	NULL	NULL	2346.05	38.65	0.147
K97-174	85.6	1470.32	15.312	0.00413	1565.2	0.000413	1940.03	43.352	0.05	2209.58	33.558	0.226	NULL	NULL	NULL	2346.4	38.237	0.125
K97-174	88.6	NULL	NULL	NULL	1558.15	0.000417	1938.89	44.254	0.0487	2210.08	33.379	0.222	NULL	NULL	NULL	2348.7	38.142	0.122
K97-174	91.6	NULL	NULL	NULL	1539.37	0.000475	1939.43	43.634	0.0488	2210.05	33.622	0.219	NULL	NULL	NULL	2346.12	36.838	0.124
K97-174	94.6	1473.72	16.107	0.00102	1538.45	0.000542	1920.23	36.321	0.012	2210.25	32.938	0.137	NULL	NULL	NULL	2347.82	37.015	0.0694
K97-174	97.6	1472.38	17.698	0.00162	1540.1	0.000445	1919.73	34.712	0.00975	2211.4	33.151	0.151	NULL	NULL	NULL	2349.12	36.621	0.085
K97-174	100.6	1473.22	15.678	0.00125	1563.38	0.000741	1952.01	25.756	0.00968	2210.99	32.788	0.146	NULL	NULL	NULL	2350.69	37.596	0.0768
K97-174	103.6	NULL	NULL	NULL	1539.59	0.00232	1914.6	34.398	0.0419	2212.98	34.028	0.254	NULL	NULL	NULL	2344.9	39.683	0.148
K97-174	106.6	NULL	NULL	NULL	NULL	NULL	1911.8	35.06	0.0389	2213.53	34.204	0.268	NULL	NULL	NULL	2351.23	39.481	0.156
K97-174	109.6	NULL	NULL	NULL	NULL	NULL	1910.31	35.815	0.0381	2212.62	33.992	0.265	NULL	NULL	NULL	2349	39.37	0.153
K97-174	112.6	NULL	NULL	NULL	1541.43	0.000496	1912.49	35.489	0.104	2215.52	33.482	0.313	NULL	NULL	NULL	2353.28	39.385	0.194
K97-174	115.6	NULL	NULL	NULL	1565.91	0.000269	1910.52	35.655	0.0941	2215.45	33.662	0.318	NULL	NULL	NULL	2352.48	39.523	0.202
K97-174	118.6	NULL	NULL	NULL	1537.31	0.000656	1912.67	35.569	0.106	2214.02	33.74	0.315	NULL	NULL	NULL	2351.9	39.847	0.196
K97-174	121.6	1471.8	11.79	0.00114	1564.26	0.000669	1910.01	37.264	0.0296	2218.34	31.952	0.193	NULL	NULL	NULL	2353.04	39.009	0.122
K97-174	124.7	1473.99	17.281	0.000877	1561.02	0.000492	1918.73	33.864	0.0294	2218.28	31.591	0.211	NULL	NULL	NULL	2349.85	38.104	0.145
K97-174	127.6	1470.79	13.905	0.000827	1566.35	0.000273	1912.05	37.734	0.0262	2217.29	31.508	0.198	2242.74	18.956	0.112	2355.52	38.502	0.12

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K97-174	130.6	NULL	NULL	NULL	1548.67	0.00104	1910.47	32.499	0.0839	2215.77	33.974	0.357	NULL	NULL	NULL	2350.47	40.428	0.209
K97-174	133.6	NULL	NULL	NULL	1552.14	0.00137	1910.24	32.65	0.083	2215.96	34.117	0.361	NULL	NULL	NULL	2352.98	40.67	0.216
K97-174	136.6	NULL	NULL	NULL	1552.62	0.00111	1909.95	32.531	0.0824	2215.86	34.102	0.359	NULL	NULL	NULL	2350.56	40.366	0.214
K97-174	139.6	NULL	NULL	NULL	NULL	NULL	1909.65	32.852	0.239	2209.89	33.528	0.341	NULL	NULL	NULL	2349.55	39.705	0.203
K97-174	142.6	NULL	NULL	NULL	NULL	NULL	1909.7	33.131	0.269	2209.37	32.514	0.355	NULL	NULL	NULL	2347.38	39.561	0.21
K97-174	145.6	NULL	NULL	NULL	NULL	NULL	1909.63	33.164	0.263	2209.7	32.664	0.353	NULL	NULL	NULL	2349.31	39.242	0.212
K97-174	148.6	NULL	NULL	NULL	1550.31	0.00113	1914.84	36.314	0.0379	2216.84	34.253	0.387	NULL	NULL	NULL	2346.71	40.242	0.239
K97-174	151.6	1473.38	15.012	0.00577	1551.11	0.00175	1912.16	37.277	0.0386	2216.36	34.144	0.394	NULL	NULL	NULL	2345.38	40.342	0.244
K97-174	154.6	1473.93	14.119	0.00399	1547.9	0.00103	1914.86	37.793	0.0403	2216.37	34.112	0.393	NULL	NULL	NULL	2351.92	40.288	0.245
K97-174	157.6	NULL	NULL	NULL	NULL	NULL	1912.11	34.225	0.118	2212.2	33.153	0.282	NULL	NULL	NULL	2346.17	39.896	0.154
K97-174	160.6	NULL	NULL	NULL	NULL	NULL	1912.04	34.368	0.122	2212.93	33.439	0.294	NULL	NULL	NULL	2347.96	39.679	0.163
K97-174	163.6	NULL	NULL	NULL	NULL	NULL	1911.62	33.226	0.124	2212.09	33.16	0.283	NULL	NULL	NULL	2344.04	40.012	0.154
K97-174	166.6	NULL	NULL	NULL	NULL	NULL	1910.08	32.965	0.181	2208.12	27.392	0.38	NULL	NULL	NULL	2347.92	39.879	0.199
K97-174	169.6	NULL	NULL	NULL	1540.69	0.00603	1910.33	33.098	0.178	2208.23	27.651	0.379	NULL	NULL	NULL	2345.85	39.553	0.197
K97-174	172.6	NULL	NULL	NULL	NULL	NULL	1910.05	32.011	0.18	2208.21	27.325	0.385	NULL	NULL	NULL	2345.79	39.207	0.199
K97-174	175.6	NULL	NULL	NULL	1545.37	0.000482	1912.41	33.862	0.0538	2208.03	26.776	0.169	NULL	NULL	NULL	2346.79	37.066	0.081
K97-174	178.6	NULL	NULL	NULL	1564.52	0.000535	1910.96	33.277	0.0547	2208.12	26.395	0.173	NULL	NULL	NULL	2346.36	36.732	0.0744
K97-174	181.6	1470.52	14.633	0.00813	1558.47	0.000369	1910.25	31.129	0.0551	2208.03	26.699	0.174	NULL	NULL	NULL	2352.4	36.416	0.0753
K97-174	184.6	NULL	NULL	NULL	1560.45	0.000149	1940.08	35.505	0.0169	2212.75	33.419	0.238	NULL	NULL	NULL	2350.19	38.287	0.126
K97-174	187.6	1473.5	15.794	0.00407	1546.14	0.00108	1941.87	35.182	0.0178	2212.73	33.05	0.258	NULL	NULL	NULL	2345.71	37.766	0.148
K97-174	190.6	NULL	NULL	NULL	NULL	NULL	1938.33	33.269	0.0155	2212.13	33.22	0.249	NULL	NULL	NULL	2348.35	38.126	0.14
K97-174	193.6	NULL	NULL	NULL	1539.96	0.00291	1938.31	42.588	0.133	2208.15	28.104	0.228	NULL	NULL	NULL	2346.21	37.014	0.104
K97-174	196.6	NULL	NULL	NULL	1539.44	0.00338	1937.38	45.284	0.132	2207.91	28.546	0.231	NULL	NULL	NULL	2344.15	37.513	0.0991
K97-174	199.6	NULL	NULL	NULL	1538.57	0.00246	1937.67	43.242	0.123	2208.1	28.309	0.231	NULL	NULL	NULL	2347.44	38.993	0.102
K97-174	202.6	1472.36	18.768	0.0015	1545.18	0.00158	1942.02	34.603	0.0448	2210.82	32.049	0.2	NULL	NULL	NULL	2346.91	36.955	0.1
K97-174	205.6	1491.06	13.742	0.00152	NULL	NULL	1940.86	35.168	0.0419	2210.87	32.774	0.186	NULL	NULL	NULL	2344.94	36.858	0.0924
K97-174	208.6	1470.34	15.645	0.00282	1543.95	0.00196	1942.45	34.583	0.0404	2210.16	32.173	0.181	NULL	NULL	NULL	2350.21	36.945	0.0902
K97-174	211.6	NULL	NULL	NULL	1546.14	0.00663	1915.88	34.658	0.0707	2207.57	32.734	0.319	NULL	NULL	NULL	2346.83	38.51	0.176
K97-174	214.6	NULL	NULL	NULL	1544.29	0.0067	1912.1	33.544	0.0686	2207.85	32.545	0.323	NULL	NULL	NULL	2348.73	38.639	0.179
K97-174	217.6	NULL	NULL	NULL	1544.05	0.00663	1912.14	32.831	0.0645	2208.07	32.852	0.323	NULL	NULL	NULL	2347.52	38.44	0.182
K97-174	220.6	1473.54	16.295	0.0149	NULL	NULL	1911.31	33.354	0.119	2207.62	26.718	0.206	NULL	NULL	NULL	2344.59	36.233	0.077
K97-174	223.6	NULL	NULL	NULL	1540.17	0.000747	1911.23	33.107	0.116	2207.87	26.457	0.196	NULL	NULL	NULL	2354.65	38.329	0.0753
K97-174	226.6	NULL	NULL	NULL	1539.21	0.00135	1910.19	32.141	0.121	2207.85	27.641	0.207	NULL	NULL	NULL	2345.05	37.368	0.0827
K97-174	229.6	NULL	NULL	NULL	1552.61	0.00262	1953.26	26.592	0.0189	2207.7	16.476	0.0337	2255.5	20.404	0.11	2349.81	37.008	0.114
K97-174	232.6	1470.3	6.942	0.00133	1542.84	0.00278	1957.83	22.965	0.0181	2207.2	18.636	0.0369	2255.95	19.172	0.112	2346.53	37.19	0.108
K97-174	235.6	1470.33	6.596	0.00152	1542.45	0.00297	1957.64	22.091	0.0179	2207.64	17.124	0.0383	2255.48	19.649	0.11	2353.8	35.811	0.111
K97-174	238.6	1497.73	15.613	0.000546	1559.1	0.000594	1951.18	32.37	0.0092	2204.08	34.716	0.0285	NULL	NULL	NULL	2326.58	32.691	0.0125

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K97-174	241.6	1491.48	14.753	0.000588	1567.87	0.000735	1938.99	25.418	0.0121	2205.8	26.894	0.0323	2242.71	14.833	0.028	2328.08	29.965	0.0181
K97-174	244.6	1480.8	13.279	0.000501	1546.16	0.000771	1940.53	31.292	0.00901	2209.76	30.636	0.0347	2246.45	18.211	0.0273	2327.05	27.078	0.0183
K97-174	247.6	1474.12	11.954	0.000601	1558.34	0.00329	1954.95	31.256	0.0227	2210.44	32.426	0.0978	2256.03	18.382	0.124	2354.51	38.838	0.124
K97-174	250.7	NULL	NULL	NULL	1557.16	0.00399	1956.24	25.945	0.0228	2211.89	32.398	0.102	2254.33	17.765	0.116	2352.44	35.339	0.119
K97-174	253.6	NULL	NULL	NULL	1557.46	0.00406	1956.55	28.458	0.0215	2214.19	32.659	0.0986	2253.24	17.458	0.12	2351.77	38.689	0.12
K97-174	256.6	1470.19	12.294	0.000973	1562.14	0.00529	NULL	NULL	NULL	2209.89	34.491	0.187	2242.77	20.57	0.0886	2346.94	37.409	0.12
K97-174	259.4	1493.73	14.332	0.005	1567.32	0.00847	NULL	NULL	NULL	2209.57	34.589	0.168	2252.31	22.021	0.0915	2355.18	35.626	0.109
K97-174	262.6	1472.74	18.835	0.00431	1566.44	0.00881	1953.63	31.256	0.0124	2209.72	33.9	0.18	2245.89	21.743	0.0908	2345.34	36.672	0.111
K97-174	265.6	NULL	NULL	NULL	1539.31	0.00597	1914.99	50.226	0.0644	2208.09	28.7	0.0529	2255.78	20.354	0.126	2337.07	36.928	0.142
K97-174	268.6	NULL	NULL	NULL	1540.3	0.00635	1917.52	50.484	0.0647	2208.75	29.911	0.054	2255.76	20.48	0.122	2335.62	39.862	0.141
K97-174	271.6	1473.68	14.835	0.0137	NULL	NULL	1912.96	46.051	0.0633	2208.68	29.637	0.0548	2256.74	20.419	0.125	2337.11	39.201	0.142
K97-174	274.6	NULL	NULL	NULL	1549.68	0.00443	1911.97	34.055	0.06	2211.04	34.376	0.305	NULL	NULL	NULL	2345.49	39.036	0.171
K97-174	277.6	NULL	NULL	NULL	1545.06	0.0047	1911.32	31.581	0.0578	2211.49	34.939	0.303	NULL	NULL	NULL	2347.44	39.402	0.175
K97-174	280.6	NULL	NULL	NULL	1548.51	0.00409	1909.86	33.042	0.0566	2212.37	34.512	0.306	NULL	NULL	NULL	2348.62	39.624	0.179
K97-174	283.6	NULL	NULL	NULL	1550.23	0.00278	1921.41	37.165	0.00987	2209.69	34.177	0.241	NULL	NULL	NULL	2353.01	38.551	0.131
K97-174	286.6	NULL	NULL	NULL	1546.5	0.00339	1917.81	36.027	0.00999	2210.13	34.238	0.251	NULL	NULL	NULL	2350.57	38.913	0.142
K97-174	289.6	NULL	NULL	NULL	1546.82	0.00377	1914.3	32.597	0.00795	2211.1	33.574	0.246	NULL	NULL	NULL	2348.64	38.708	0.136
K97-174	292.6	NULL	NULL	NULL	1547.19	0.00619	1912.33	29.372	0.0625	2212.35	33.716	0.199	2246.45	19.234	0.116	2345.47	37.77	0.134
K97-174	295.6	NULL	NULL	NULL	1554.05	0.00594	1909.37	28.162	0.0594	2213.47	33.677	0.209	NULL	NULL	NULL	2345.96	38.596	0.138
K97-174	298.5	NULL	NULL	NULL	1551.59	0.00593	1910.53	27.004	0.0596	2212.87	33.955	0.199	2246.55	19.593	0.123	2347.41	39.772	0.139
K97-174	301.6	NULL	NULL	NULL	1558.96	0.0134	NULL	NULL	NULL	NULL	NULL	NULL	2252.23	17.35	0.209	2340.02	35.996	0.193
K97-174	304.6	NULL	NULL	NULL	1556.22	0.0139	NULL	NULL	NULL	NULL	NULL	NULL	2252.34	17.309	0.212	2338.21	35.548	0.201
K97-174	307.6	NULL	NULL	NULL	1558.45	0.0141	1958.3	26.222	0.0633	NULL	NULL	NULL	2251.89	17.358	0.209	2339.52	35.889	0.195
K97-174	310.6	1471.28	15.955	0.011	1544.65	0.00834	1942.92	36.164	0.0477	2216.98	33.186	0.101	2243.02	20.076	0.0598	2341.79	36.144	0.0793
K97-174	313.6	NULL	NULL	NULL	1539.7	0.0141	1939.37	38.125	0.0486	2215.07	32.948	0.0956	2243.1	20.189	0.0606	2338.73	38.059	0.093
K97-174	316.6	NULL	NULL	NULL	1541.31	0.00983	1943.06	37.831	0.0443	2215.27	32.578	0.109	2248.31	19.439	0.064	2343.24	37.954	0.0914
K97-174	319.6	NULL	NULL	NULL	NULL	NULL	1911.52	34.69	0.111	2212.73	33.714	0.262	NULL	NULL	NULL	2345.3	38.039	0.154
K97-174	322.6	NULL	NULL	NULL	1540.74	0.00292	1910.46	32.502	0.116	2212.56	33.944	0.268	NULL	NULL	NULL	2349.24	37.998	0.159
K97-174	325.6	NULL	NULL	NULL	NULL	NULL	1910.33	33.469	0.106	2212.5	33.925	0.253	NULL	NULL	NULL	2348.14	38.258	0.152
K97-174	328.6	NULL	NULL	NULL	NULL	NULL	1910.01	30.686	0.143	2209.28	29.313	0.248	NULL	NULL	NULL	2347.25	37.661	0.114
K97-174	331.6	NULL	NULL	NULL	1540.12	0.00397	1909.87	29.939	0.145	2209.11	29.171	0.25	NULL	NULL	NULL	2345.41	37.267	0.118
K97-174	334.6	NULL	NULL	NULL	1539.76	0.00353	1909.77	30.536	0.141	2209.24	29.049	0.249	NULL	NULL	NULL	2354.55	36.587	0.117
K97-174	337.6	NULL	NULL	NULL	1554.53	0.00188	1938.06	45.135	0.0372	2207.21	34.034	0.306	NULL	NULL	NULL	2351.04	39.633	0.176
K97-174	340.6	NULL	NULL	NULL	1544.33	0.00353	1939.79	46.215	0.0403	2208.02	34.618	0.315	NULL	NULL	NULL	2351.05	39.577	0.184
K97-174	343.6	NULL	NULL	NULL	1541.86	0.00235	1934.14	45.832	0.0291	2207.13	33.957	0.298	NULL	NULL	NULL	2347.68	39.538	0.168
K97-174	346.6	NULL	NULL	NULL	1546.48	0.031	1953.49	28.871	0.0389	2213.29	33.944	0.27	NULL	NULL	NULL	2342.16	39.137	0.165
K97-174	349.6	NULL	NULL	NULL	1549.96	0.0305	NULL	NULL	NULL	2213.13	34.098	0.274	NULL	NULL	NULL	2343.31	38.821	0.176

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K97-174	352.6	NULL	NULL	NULL	1546.86	0.0295	NULL	NULL	NULL	2212.75	34.049	0.272	NULL	NULL	NULL	2346.96	40.012	0.175
K97-174	355.6	1471.64	13.027	0.00109	1546.82	0.00192	1939.63	39.279	0.036	2207.89	32.115	0.19	NULL	NULL	NULL	2349.56	38.49	0.0981
K97-174	358.6	NULL	NULL	NULL	1543.63	0.00253	1941.09	38.976	0.0356	2208.22	32.414	0.207	NULL	NULL	NULL	2343.89	38.767	0.106
K97-174	361.6	NULL	NULL	NULL	1546.58	0.0021	1940.31	40.223	0.0339	2208.39	32.345	0.203	NULL	NULL	NULL	2350.39	37.852	0.107
K97-174	364.6	NULL	NULL	NULL	1550.63	0.00386	1910.38	35.407	0.0386	2208.91	33.47	0.293	NULL	NULL	NULL	2351.02	39.012	0.164
K97-174	367.6	NULL	NULL	NULL	1546.89	0.00475	1911	34.313	0.0419	2208.81	33.03	0.301	NULL	NULL	NULL	2349.56	39.255	0.17
K97-174	370.6	NULL	NULL	NULL	1546.47	0.00431	1911.85	31.323	0.0418	2208.26	33.287	0.299	NULL	NULL	NULL	2345.76	38.75	0.175
K97-174	373.6	NULL	NULL	NULL	NULL	NULL	1935.08	45.188	0.0751	2209	32.892	0.288	NULL	NULL	NULL	2349.71	39.488	0.15
K97-174	376.6	NULL	NULL	NULL	1540.97	0.00171	1936.58	43.837	0.0759	2208.72	32.403	0.294	NULL	NULL	NULL	2351.42	39.631	0.147
K97-177	8.2	NULL	NULL	NULL	1543.5	0.00181	1935.4	43.931	0.0738	2208.78	32.702	0.29	NULL	NULL	NULL	2349.26	39.159	0.15
K97-177	13.2	NULL	NULL	NULL	1542.37	0.00105	1915.47	44.126	0.0247	2216.03	33.208	0.258	NULL	NULL	NULL	2345.81	39.251	0.144
K97-177	18.2	NULL	NULL	NULL	1564.11	0.000453	1913.55	42.216	0.0251	2216.44	33.014	0.298	NULL	NULL	NULL	2347.19	38.507	0.173
K97-177	23.2	NULL	NULL	NULL	1539.7	0.000912	1910.35	42.774	0.03	2215.8	33.078	0.292	NULL	NULL	NULL	2345.59	39.321	0.167
K97-177	26.5	NULL	NULL	NULL	1546.76	0.000681	1912.08	35.74	0.0259	2215.04	33.271	0.279	NULL	NULL	NULL	2351.11	38.469	0.163
K97-177	29.2	NULL	NULL	NULL	1564.44	0.000605	1911.82	37.023	0.0246	2214.8	33.417	0.285	NULL	NULL	NULL	2350.22	38.882	0.157
K97-177	32.2	NULL	NULL	NULL	1563.54	0.000494	1913.05	34.233	0.0294	2215.7	33.36	0.272	NULL	NULL	NULL	2348.31	38.716	0.158
K97-177	35.3	NULL	NULL	NULL	1547.22	0.000486	1911.13	32.525	0.139	2212.47	33.747	0.278	NULL	NULL	NULL	2345.98	38.444	0.158
K97-177	38.3	NULL	NULL	NULL	1550.09	0.000753	1911.05	33.099	0.133	2213.38	33.532	0.275	NULL	NULL	NULL	2350.96	39.083	0.151
K97-177	41.3	NULL	NULL	NULL	1545.89	0.000712	1910.72	32.607	0.145	2211.55	33.333	0.277	NULL	NULL	NULL	2347.12	39.038	0.153
K97-177	44.3	NULL	NULL	NULL	NULL	NULL	1910.8	32.42	0.0391	2213.72	34.393	0.292	NULL	NULL	NULL	2348.57	39.817	0.168
K97-177	47.3	NULL	NULL	NULL	1544.28	0.000801	1908.95	35.237	0.0351	2213.28	34.129	0.309	NULL	NULL	NULL	2347.95	39.161	0.171
K97-177	52.3	NULL	NULL	NULL	1537.09	0.0023	1909.55	30.771	0.0386	2213.13	34.03	0.299	NULL	NULL	NULL	2349	39.143	0.171
K97-177	50.3	NULL	NULL	NULL	1553.55	0.000763	1910.67	32.904	0.0883	2208.96	31.322	0.263	NULL	NULL	NULL	2347.77	38.906	0.146
K97-177	55.3	NULL	NULL	NULL	1554.25	0.00034	1911.82	33.294	0.0852	2209.04	30.983	0.268	NULL	NULL	NULL	2348.77	38.138	0.148
K97-177	58.3	NULL	NULL	NULL	1539.91	0.00051	1911.7	32.692	0.0935	2208.82	30.186	0.253	NULL	NULL	NULL	2345.66	39.053	0.141
K97-177	62.5	NULL	NULL	NULL	NULL	NULL	1911.32	33.063	0.0579	2210.43	34.622	0.315	NULL	NULL	NULL	2348.27	40.238	0.173
K97-177	65.3	NULL	NULL	NULL	1540.49	0.00519	1911.99	33.57	0.0552	2210.8	34.503	0.32	NULL	NULL	NULL	2345.61	39.306	0.178
K15-203	4.8	NULL	NULL	NULL	NULL	NULL	1911.94	32.899	0.0587	2210.54	34.789	0.332	NULL	NULL	NULL	2346.72	39.467	0.18
K15-203	4.8	NULL	NULL	NULL	1549.81	0.000755	1912.98	35.971	0.0493	2210.52	33.782	0.257	NULL	NULL	NULL	2343.6	39.627	0.142
K15-203	4.8	NULL	NULL	NULL	1547.31	0.00079	1912.45	34.591	0.0457	2210.25	33.699	0.247	NULL	NULL	NULL	2344.56	40.071	0.134
K15-203	9.8	NULL	NULL	NULL	1565.01	0.000689	1914.58	33.553	0.0449	2209.93	33.067	0.23	NULL	NULL	NULL	2346.6	39.408	0.124
K15-203	9.8	NULL	NULL	NULL	1542.34	0.00141	1939.64	36.52	0.0701	2215.07	34.609	0.422	NULL	NULL	NULL	2351.27	39.527	0.25
K15-203	9.8	NULL	NULL	NULL	1544.55	0.0018	1939.69	36.267	0.0637	2215.05	34.43	0.416	NULL	NULL	NULL	2351.47	39.082	0.245
K15-203	14.8	NULL	NULL	NULL	1539.38	0.00192	1940.16	35.773	0.0735	2214.1	34.534	0.415	NULL	NULL	NULL	2349.66	39.452	0.243
K15-203	14.8	NULL	NULL	NULL	1538.36	0.00163	1911.72	36.371	0.0258	2214.28	34.354	0.328	NULL	NULL	NULL	2347.67	39.468	0.185
K15-203	14.8	NULL	NULL	NULL	NULL	NULL	1914.77	38.155	0.0229	2214.34	34.184	0.327	NULL	NULL	NULL	2347.78	40.044	0.182
K15-203	19.8	NULL	NULL	NULL	1538.66	0.00363	1912.61	36.596	0.0245	2213.88	34.286	0.323	NULL	NULL	NULL	2348.15	40.054	0.179

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-203	19.8	NULL	NULL	NULL	1557.03	0.00684	1953.77	38.169	0.0277	NULL	NULL	NULL	2254.55	19.812	0.0988	2347.04	37.422	0.0971
K15-203	24.8	NULL	NULL	NULL	1540.1	0.00592	1952.59	33.644	0.0246	NULL	NULL	NULL	2256	19.962	0.0938	2353.42	39.54	0.0913
K15-203	24.8	NULL	NULL	NULL	1546.88	0.00633	1951.81	39.741	0.0286	NULL	NULL	NULL	2255.62	19.602	0.0922	2345.51	38.213	0.0898
K15-203	24.8	NULL	NULL	NULL	1539.69	0.00216	1911.08	38.033	0.113	2208.37	33.214	0.288	NULL	NULL	NULL	2347	38.465	0.15
K15-203	29.8	NULL	NULL	NULL	1546.45	0.00126	1911.86	36.691	0.12	2208.38	32.447	0.285	NULL	NULL	NULL	2345.89	39.39	0.145
K15-203	29.8	NULL	NULL	NULL	NULL	NULL	1911.1	37.79	0.116	2208.62	32.541	0.26	NULL	NULL	NULL	2351.63	38.203	0.133
K15-203	29.8	NULL	NULL	NULL	1548.88	0.00296	1911.34	29.09	0.0732	2209.97	33.921	0.282	NULL	NULL	NULL	2345.3	38.476	0.168
K15-203	34.8	NULL	NULL	NULL	1553.28	0.00274	1911.47	29.388	0.0672	2209.49	33.094	0.26	NULL	NULL	NULL	2345.46	39.035	0.154
K15-203	34.8	1473.48	11.439	0.0029	1550.03	0.00302	1910.84	27.64	0.0719	2209.1	32.917	0.257	NULL	NULL	NULL	2348.73	39.109	0.156
K15-203	34.8	NULL	NULL	NULL	1545.57	0.000485	1911.66	34.082	0.106	2210.89	34.355	0.382	NULL	NULL	NULL	2348.5	39.321	0.217
K15-203	39.8	NULL	NULL	NULL	1566.57	0.000621	1911.5	33.666	0.103	2210.77	34.504	0.381	NULL	NULL	NULL	2350.62	38.866	0.218
K15-203	39.8	NULL	NULL	NULL	1540.45	0.00098	1911.04	33.286	0.0991	2211	34.434	0.366	NULL	NULL	NULL	2349.38	38.77	0.205
K15-203	39.8	NULL	NULL	NULL	1547.41	0.00215	1958.04	32.998	0.0157	2215.17	33.137	0.0553	2256.43	18.597	0.0879	2349.22	37.282	0.0875
K15-203	44.8	NULL	NULL	NULL	1553.7	0.00183	1950.21	32.177	0.0157	2212.32	32.27	0.0565	2256.55	19.443	0.078	2347.75	34.465	0.0883
K15-203	44.8	NULL	NULL	NULL	1562.43	0.00167	1958.22	35.827	0.0171	2209.64	31.597	0.0539	2255.5	17.643	0.0801	2352.96	35.791	0.0838
K15-203	44.8	NULL	NULL	NULL	1548.04	0.00123	1937.29	43.463	0.0613	2214.77	33.093	0.201	NULL	NULL	NULL	2344.96	38.05	0.113
K15-203	49.8	NULL	NULL	NULL	1546.94	0.000987	1940.11	43.738	0.0589	2214.21	33.697	0.197	NULL	NULL	NULL	2354.67	38.464	0.113
K15-203	49.8	NULL	NULL	NULL	1538.97	0.00149	1936.49	45.104	0.0712	2214.46	33.462	0.218	NULL	NULL	NULL	2347.71	37.91	0.124
K15-203	49.8	NULL	NULL	NULL	NULL	NULL	1910.94	31.852	0.0338	2214.8	33.513	0.272	NULL	NULL	NULL	2346.89	39.002	0.155
K15-203	54.8	NULL	NULL	NULL	NULL	NULL	1911.02	33.314	0.0306	2215.45	33.241	0.271	NULL	NULL	NULL	2346.5	39.414	0.157
K15-203	54.8	NULL	NULL	NULL	NULL	NULL	1910.88	31.521	0.0341	2216.04	33.509	0.27	NULL	NULL	NULL	2349.28	38.691	0.153
K15-203	54.8	NULL	NULL	NULL	1539.35	0.00079	1939.19	43.099	0.0224	2216.59	32.774	0.243	NULL	NULL	NULL	2352.99	39.237	0.14
K15-203	59.8	NULL	NULL	NULL	1555.23	0.00062	1912.49	45.979	0.0236	2216.74	32.735	0.249	2243.42	17.897	0.146	2355.56	39.324	0.146
K15-203	59.8	1470.98	6.695	0.0012	1546.71	0.000693	1912.48	40.027	0.0233	2216.32	32.667	0.243	NULL	NULL	NULL	2344.67	39.415	0.133
K15-203	59.8	NULL	NULL	NULL	1539.56	0.00107	1912.14	36.385	0.0279	2218.25	33.276	0.277	NULL	NULL	NULL	2347.37	40.354	0.17
K15-203	64.8	NULL	NULL	NULL	1562.77	0.00194	1914.6	36.002	0.0259	2218.02	33.449	0.277	NULL	NULL	NULL	2343.86	40.102	0.171
K15-203	64.8	NULL	NULL	NULL	1564.87	0.00176	1910.05	34.05	0.0295	2218.27	33.313	0.276	NULL	NULL	NULL	2346.27	40.704	0.166
K15-203	64.8	NULL	NULL	NULL	NULL	NULL	1912.43	35.513	0.0679	2215.63	33.365	0.268	NULL	NULL	NULL	2344.66	40.231	0.149
K15-203	69.8	NULL	NULL	NULL	NULL	NULL	1913.45	36.046	0.0662	2215.61	33.2	0.274	NULL	NULL	NULL	2345.76	39.184	0.156
K15-203	69.8	NULL	NULL	NULL	NULL	NULL	1913.15	34.648	0.067	2215.41	33.383	0.269	NULL	NULL	NULL	2348.55	39.366	0.153
K15-203	69.8	NULL	NULL	NULL	1549.92	0.00179	1937.09	40.577	0.0262	2211.21	34.639	0.321	NULL	NULL	NULL	2347.79	39.493	0.179
K15-203	72.8	NULL	NULL	NULL	1544.99	0.00304	1940.23	39.977	0.0266	2211.09	34.679	0.318	NULL	NULL	NULL	2350.52	39.609	0.176
K15-203	72.8	NULL	NULL	NULL	1538.05	0.00433	1939.68	40.951	0.0283	2211.23	34.604	0.313	NULL	NULL	NULL	2348.32	39.896	0.167
K15-203	72.8	NULL	NULL	NULL	NULL	NULL	1948.08	47.355	0.0193	2211.93	34.205	0.218	NULL	NULL	NULL	2339.21	39.98	0.143
K15-203	75.8	NULL	NULL	NULL	NULL	NULL	1951.22	46.653	0.0182	2211.14	33.721	0.223	NULL	NULL	NULL	2342.47	39.959	0.143
K15-203	75.8	NULL	NULL	NULL	NULL	NULL	1943.33	48.969	0.0213	2211.61	33.998	0.222	NULL	NULL	NULL	2340.48	40.858	0.14
K15-203	75.8	NULL	NULL	NULL	1554.62	0.00109	1915.47	43.274	0.0164	2209.73	34.052	0.212	NULL	NULL	NULL	2344.75	38.498	0.113

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-203	78.8	NULL	NULL	NULL	1555.1	0.000882	1916.27	41.922	0.0163	2209.18	33.278	0.215	NULL	NULL	NULL	2347.97	38.454	0.113
K15-203	78.8	1472.31	13.021	0.00105	1538.46	0.00119	1918.68	39.499	0.0175	2209.75	33.436	0.203	NULL	NULL	NULL	2352.07	38.377	0.107
K15-203	78.8	NULL	NULL	NULL	1554.39	0.000927	1911.28	33.812	0.027	2208.34	33.824	0.216	NULL	NULL	NULL	2353.61	38.739	0.11
K15-203	81.8	1473.74	14.02	0.00182	1553.56	0.000697	1911.53	35.062	0.0268	2209	33.493	0.218	NULL	NULL	NULL	2343.82	37.903	0.118
K15-203	81.8	NULL	NULL	NULL	1565.34	0.000573	1910.23	32.309	0.0283	2209.26	33.436	0.218	NULL	NULL	NULL	2350.7	37.571	0.116
K15-203	81.8	NULL	NULL	NULL	NULL	NULL	1911.38	35.789	0.0445	2207.78	33.322	0.277	NULL	NULL	NULL	2344.73	38.71	0.151
K15-203	84.8	NULL	NULL	NULL	NULL	NULL	1911.87	37.354	0.0389	2207.41	33.307	0.277	NULL	NULL	NULL	2346.02	39.054	0.146
K15-203	84.8	NULL	NULL	NULL	NULL	NULL	1910.78	35.324	0.0439	2207.61	33.461	0.287	NULL	NULL	NULL	2343.89	39.675	0.155
K15-203	84.8	NULL	NULL	NULL	1545.21	0.000966	1910.59	35.57	0.0712	2206.18	31.484	0.315	NULL	NULL	NULL	2349.34	38.149	0.169
K15-203	87.8	NULL	NULL	NULL	1547.12	0.000956	1910.87	34.933	0.0683	2206	31.662	0.323	NULL	NULL	NULL	2347.58	38.862	0.173
K15-203	87.8	NULL	NULL	NULL	1551.97	0.000948	1909.62	35.051	0.0714	2206.02	31.247	0.301	NULL	NULL	NULL	2344.86	38.544	0.157
K15-203	87.8	NULL	NULL	NULL	NULL	NULL	1911.52	35.349	0.16	2207.31	29.064	0.243	NULL	NULL	NULL	2343.4	39.984	0.0818
K15-203	90.8	NULL	NULL	NULL	NULL	NULL	1911.28	35.2	0.169	2207.1	29.595	0.264	NULL	NULL	NULL	2343.81	39.655	0.0948
K15-203	90.8	NULL	NULL	NULL	NULL	NULL	1911.25	34.825	0.163	2207.22	29.364	0.247	NULL	NULL	NULL	2348.39	41.446	0.0794
K15-203	90.8	NULL	NULL	NULL	NULL	NULL	1937.26	46.495	0.0557	2204.72	30.494	0.312	NULL	NULL	NULL	2345.26	38.607	0.161
K15-203	93.8	NULL	NULL	NULL	NULL	NULL	1937.31	42.767	0.0528	2204.76	30.586	0.3	NULL	NULL	NULL	2346.19	38.398	0.155
K15-203	93.8	NULL	NULL	NULL	NULL	NULL	1937.92	44.377	0.0573	2205.25	30.402	0.309	NULL	NULL	NULL	2346.34	38.216	0.158
K15-203	93.8	NULL	NULL	NULL	1541.86	0.00265	1936.42	44.264	0.0588	2204.03	30.616	0.238	NULL	NULL	NULL	2343.69	38.072	0.115
K15-203	96.8	NULL	NULL	NULL	NULL	NULL	1932.98	46.524	0.055	2204.51	30.208	0.241	NULL	NULL	NULL	2345.9	38.739	0.118
K15-203	96.8	NULL	NULL	NULL	1537.49	0.00393	1938.02	44.34	0.0618	2204.81	30.432	0.24	NULL	NULL	NULL	2345.57	38.35	0.117
K15-203	96.8	NULL	NULL	NULL	1543.68	0.00309	1912.56	39.706	0.0483	2205.8	30.072	0.263	NULL	NULL	NULL	2347.05	37.726	0.132
K15-203	99.8	NULL	NULL	NULL	1538.19	0.00381	1914.47	37.7	0.0519	2205.96	29.962	0.257	NULL	NULL	NULL	2347.17	38.562	0.123
K15-203	99.8	NULL	NULL	NULL	1543.28	0.00271	1911.43	38.278	0.0505	2205.84	30.096	0.269	NULL	NULL	NULL	2345.06	38.468	0.131
K15-203	99.8	NULL	NULL	NULL	1539.74	0.00736	1912.19	34.925	0.0453	2207.21	30.127	0.266	NULL	NULL	NULL	2343.91	39.874	0.12
K15-203	111.8	NULL	NULL	NULL	NULL	NULL	1911.06	34.439	0.0451	2206.93	29.766	0.274	NULL	NULL	NULL	2343.34	40.233	0.124
K15-203	111.8	NULL	NULL	NULL	1539.76	0.00776	1910.42	33.709	0.0506	2206.92	30.539	0.285	NULL	NULL	NULL	2345.17	39.631	0.132
K15-203	111.8	NULL	NULL	NULL	NULL	NULL	1911.99	32.037	0.0662	2205.3	31.12	0.279	NULL	NULL	NULL	2345.83	40.42	0.137
K15-203	114.8	NULL	NULL	NULL	NULL	NULL	1911.67	32.603	0.0662	2205.23	30.726	0.278	NULL	NULL	NULL	2346.27	39.541	0.136
K15-203	114.8	NULL	NULL	NULL	NULL	NULL	1912.3	32.31	0.0708	2205.28	30.825	0.279	NULL	NULL	NULL	2345.59	39.977	0.139
K15-203	114.8	NULL	NULL	NULL	1554.21	0.00219	1910.35	27.841	0.00423	2204.02	32.599	0.321	NULL	NULL	NULL	2346.02	39.488	0.175
K15-203	117.8	NULL	NULL	NULL	1551.17	0.00215	1911.11	34.196	0.00407	2204.75	32.365	0.326	NULL	NULL	NULL	2350.21	39.379	0.172
K15-203	117.8	NULL	NULL	NULL	1550.83	0.00253	1908.25	24.096	0.00432	2204.52	32.333	0.326	NULL	NULL	NULL	2345.96	38.824	0.179
K15-203	117.8	NULL	NULL	NULL	1550.61	0.00304	1909.17	27.113	0.00807	2203.86	31.169	0.27	NULL	NULL	NULL	2344.28	39.955	0.136
K15-203	120.8	1470.55	9.731	0.00112	1548.68	0.00281	1910.88	25.508	0.00752	2203.52	31.686	0.287	NULL	NULL	NULL	2348.14	40.504	0.151
K15-203	120.8	NULL	NULL	NULL	1552.07	0.0033	1907.43	28.143	0.00911	2203.69	31.467	0.284	NULL	NULL	NULL	2346.75	39.334	0.154
K15-203	120.8	NULL	NULL	NULL	1553.08	0.00117	1911.01	30.065	0.0284	2205.59	31.802	0.272	NULL	NULL	NULL	2348.35	38.421	0.144
K15-203	124	NULL	NULL	NULL	1554.05	0.00165	1910.4	31.713	0.0287	2204.95	32.158	0.274	NULL	NULL	NULL	2348.71	39.075	0.142

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-203	124	NULL	NULL	NULL	1556.84	0.00134	1911.44	32.623	0.028	2204.65	32.133	0.269	NULL	NULL	NULL	2347.16	38.309	0.143
K15-203	124	NULL	NULL	NULL	1548.26	0.00287	1910.12	35.092	0.0264	2207.08	33.509	0.297	NULL	NULL	NULL	2347.28	38.839	0.172
K15-203	126.8	NULL	NULL	NULL	1547.96	0.00313	1916	40.587	0.0248	2206.64	33.391	0.297	NULL	NULL	NULL	2347.75	39.129	0.175
K15-203	126.8	NULL	NULL	NULL	1554.7	0.00287	1913.15	42.139	0.0243	2206.88	33.398	0.3	NULL	NULL	NULL	2348.17	39.474	0.174
K15-203	126.8	NULL	NULL	NULL	1565.44	0.000259	1914.18	34.2	0.147	2207.59	26.141	0.125	2255.93	16.737	0.0097	2356.31	31.53	0.0257
K15-203	129.8	NULL	NULL	NULL	1558.01	0.000481	1915.41	35.339	0.0665	2207.91	24.403	0.0808	2249.04	16.195	0.0165	2326.85	35.871	0.0222
K15-203	129.8	NULL	NULL	NULL	1564.09	0.000431	1913.4	37.341	0.0577	2207.72	23.838	0.074	2245.61	15.917	0.0142	2323.79	33.55	0.0185
K15-203	129.8	NULL	NULL	NULL	1548.86	0.0137	1915.61	41.743	0.043	2205.4	33.452	0.293	NULL	NULL	NULL	2352.17	40.312	0.153
K15-203	132.8	NULL	NULL	NULL	1547.47	0.0134	1912.96	36.233	0.0396	2205.86	32.962	0.306	NULL	NULL	NULL	2345.19	40.818	0.163
K15-203	132.8	NULL	NULL	NULL	1548.57	0.0133	1915.13	35.299	0.0359	2205.9	33.041	0.308	NULL	NULL	NULL	2345.15	40.632	0.164
K15-203	132.8	NULL	NULL	NULL	NULL	NULL	1912.91	38.233	0.167	2211.86	35.174	0.091	NULL	NULL	NULL	2321.91	43.767	0.325
K15-203	135.8	NULL	NULL	NULL	NULL	NULL	1912.02	35.988	0.16	2210.85	34.755	0.103	NULL	NULL	NULL	2322.73	43.652	0.289
K15-203	135.8	NULL	NULL	NULL	NULL	NULL	1912.52	36.18	0.156	2211.52	35.505	0.0998	NULL	NULL	NULL	2323.54	43.554	0.299
K15-203	135.8	NULL	NULL	NULL	1539.46	0.00435	1914.23	44.48	0.0773	2205.01	33	0.224	NULL	NULL	NULL	2343.1	40.766	0.105
K15-203	138.8	NULL	NULL	NULL	1548.98	0.00126	1911.91	36.269	0.061	2204.06	32.95	0.194	NULL	NULL	NULL	2335.39	39.825	0.0904
K15-203	138.8	NULL	NULL	NULL	NULL	NULL	1913.02	38.323	0.0661	2204.63	32.898	0.21	NULL	NULL	NULL	2343.42	40.22	0.0969
K15-203	138.8	1496.27	13.349	0.000384	1540.99	0.000445	1958.83	30.122	0.0111	2204.95	26.974	0.052	NULL	NULL	NULL	2330.82	32.969	0.0381
K15-203	141.8	1495.48	17.359	0.000336	NULL	NULL	1949.76	34.052	0.011	2207.43	30.67	0.0532	NULL	NULL	NULL	2322.5	28.841	0.0448
K15-203	141.8	1498.6	13.336	0.000542	1537.27	0.000583	1949.81	27.297	0.0103	2210.45	29.597	0.0461	2244.93	14.676	0.045	2332.77	29.618	0.0344
K15-203	141.8	NULL	NULL	NULL	NULL	NULL	1916.51	37.493	0.0587	2208.55	27.581	0.0303	2244.17	18.169	0.0157	2332.63	41.619	0.0201
K15-203	144.8	NULL	NULL	NULL	1561.62	0.000565	1911.85	38.389	0.0586	2205.56	27.077	0.0352	NULL	NULL	NULL	2331.81	41.352	0.0169
K15-203	144.8	NULL	NULL	NULL	NULL	NULL	1914.51	39.053	0.0547	2208.64	25.559	0.0294	2245.83	19.754	0.0116	2329.72	39.403	0.0154
K15-203	144.8	1485.51	14.261	0.000433	1567.13	0.000655	1954.93	31.048	0.0373	2213.18	32.651	0.0493	2246.73	15.131	0.0404	2324.25	34.856	0.0289
K15-203	147.8	1479.74	16.061	0.000799	1562.85	0.000459	1941.16	35.036	0.0321	2199.97	30.74	0.0462	2241.26	14.042	0.0359	2358.83	33.347	0.0231
K15-203	147.8	1491.68	14.172	0.000465	1542.12	0.000843	1941.14	31.071	0.0326	2198.85	31.427	0.0426	2242.06	14.047	0.0312	2324.44	37.439	0.0201
K15-203	147.8	1483.92	17.848	0.000741	1555.26	0.001	1959.32	29.803	0.00711	2217.32	29.597	0.0409	2243.09	10.558	0.0383	2320.91	33.472	0.0261
K15-203	150.8	1497.66	11.452	0.000656	1558.53	0.00104	1953.96	34.41	0.00733	2213.85	29.9	0.044	2248.4	16.519	0.0427	2322.34	32.463	0.034
K15-203	150.8	1489.62	15.28	0.000784	1558.91	0.00149	1949.91	26.208	0.00927	2223.18	30.728	0.0505	NULL	NULL	NULL	2329.23	32.421	0.0368
K15-203	150.8	NULL	NULL	NULL	1565.15	0.000945	1950.58	32.449	0.0112	2207.43	34.599	0.0608	2243.7	18.971	0.0566	2323.59	22.41	0.0477
K15-203	153.8	1482.3	16.783	0.000339	1556.72	0.000646	1944.65	32.326	0.00939	NULL	NULL	NULL	2248.78	14.047	0.0759	2322.41	30.857	0.0641
K15-203	153.8	1481.51	17.635	0.000801	1566.74	0.000876	1950.99	27.838	0.0108	NULL	NULL	NULL	2241.69	13.744	0.0682	2332.07	37.573	0.0502
K15-203	153.8	NULL	NULL	NULL	NULL	NULL	1941.66	37.325	0.091	2209.66	33.27	0.184	NULL	NULL	NULL	2348.52	36.906	0.0912
K15-203	156.8	NULL	NULL	NULL	NULL	NULL	1942.77	37.663	0.0925	2209.3	32.871	0.198	NULL	NULL	NULL	2349.91	37.121	0.096
K15-203	156.8	NULL	NULL	NULL	NULL	NULL	1941.99	37.257	0.0878	2209.54	33.578	0.184	NULL	NULL	NULL	2346.69	37.856	0.0885
K15-203	156.8	1473.66	12.65	0.0249	1546.61	0.0332	1959.55	32.321	0.0873	NULL	NULL	NULL	2252.34	19.849	0.199	2338.1	32.735	0.233
K15-203	159.8	NULL	NULL	NULL	1548.41	0.0306	NULL	NULL	NULL	NULL	NULL	NULL	2252.59	19.295	0.2	2339.57	33.085	0.215
K15-203	159.8	NULL	NULL	NULL	1553.71	0.0341	1958.62	34.214	0.0824	NULL	NULL	NULL	2252.72	19.721	0.202	2338.36	33.902	0.233

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-203	159.8	NULL	NULL	NULL	1548.31	0.0186	NULL	NULL	NULL	NULL	NULL	NULL	2252.73	19.325	0.184	2341.2	31.697	0.184
K15-203	162.8	1474	10.86	0.011	1558.91	0.0163	NULL	NULL	NULL	NULL	NULL	NULL	2252.34	19.002	0.176	2337.73	33.647	0.174
K15-203	162.8	NULL	NULL	NULL	1561.32	0.0173	1956.83	35.936	0.0648	NULL	NULL	NULL	2252.74	18.919	0.178	2344.14	34.952	0.176
K15-203	162.8	NULL	NULL	NULL	1555.77	0.0337	1953.38	43.525	0.0769	NULL	NULL	NULL	2253.31	19.608	0.19	2338.33	39.6	0.263
K15-203	165.8	NULL	NULL	NULL	1554.76	0.0344	1951.52	42.496	0.0781	NULL	NULL	NULL	2252.75	19.752	0.199	2337.39	39.737	0.271
K15-203	165.8	NULL	NULL	NULL	1556.58	0.0345	1951.48	42.325	0.075	NULL	NULL	NULL	2253.19	19.665	0.192	2336.51	39.516	0.27
K15-203	165.8	NULL	NULL	NULL	1556.21	0.0295	1955.9	29.015	0.0491	NULL	NULL	NULL	2253.17	19.069	0.206	2341.64	37.18	0.289
K15-203	168.8	NULL	NULL	NULL	1556.68	0.0283	1953.23	27.613	0.0501	NULL	NULL	NULL	2253.52	19.545	0.206	2342.87	37.753	0.288
K15-203	168.8	NULL	NULL	NULL	1555.79	0.0286	1952.21	27.35	0.0486	NULL	NULL	NULL	2253.42	19.283	0.206	2344.67	38.275	0.287
K15-203	168.8	NULL	NULL	NULL	1556.36	0.0464	1955.43	27.928	0.0511	NULL	NULL	NULL	2253.05	19.346	0.238	2339.7	39.156	0.329
K15-203	171.8	NULL	NULL	NULL	1557.11	0.0459	1953.28	27.905	0.0493	NULL	NULL	NULL	2253.5	19.121	0.239	2339.96	39.093	0.328
K15-203	171.8	NULL	NULL	NULL	1556.98	0.0461	1954.5	28.138	0.0502	NULL	NULL	NULL	2253.14	19.299	0.243	2340.22	38.762	0.331
K15-203	171.8	NULL	NULL	NULL	1555.39	0.0166	1911.68	29.884	0.0686	NULL	NULL	NULL	2251.75	16.73	0.171	2336.09	36.814	0.243
K15-207	7	NULL	NULL	NULL	1553.64	0.0127	1911.76	32.182	0.0762	NULL	NULL	NULL	2251.05	17.417	0.164	2328.16	39.994	0.243
K15-207	12	NULL	NULL	NULL	1555.49	0.0139	1912.6	32.099	0.0752	NULL	NULL	NULL	2251.57	17.035	0.163	2327.89	39.36	0.241
K15-207	17	NULL	NULL	NULL	1558.14	0.0112	1958.45	33.49	0.0158	2222.56	29.332	0.145	2249.3	18.888	0.189	2337.97	39.812	0.228
K15-207	22	NULL	NULL	NULL	1556.14	0.0117	1951.91	32.556	0.017	2223.16	29.489	0.135	2250	18.872	0.191	2340.4	39.756	0.224
K15-207	27	1471.09	15.683	0.00673	1556.9	0.0125	1952.12	31.054	0.0154	2221.55	29.732	0.142	2249.67	19.233	0.193	2337.25	39.466	0.232
K15-207	32	NULL	NULL	NULL	1556.3	0.0354	1952.81	24.777	0.0375	NULL	NULL	NULL	2253.76	20.368	0.213	2334.76	39.468	0.334
K15-207	35	NULL	NULL	NULL	1556.85	0.0342	1953.33	25.767	0.0353	NULL	NULL	NULL	2253.62	20.144	0.212	2336.71	39.937	0.324
K15-207	37.5	NULL	NULL	NULL	1555.36	0.0361	1951.82	24.963	0.0357	NULL	NULL	NULL	2253.28	20.732	0.213	2334.8	36.982	0.336
K15-207	40	NULL	NULL	NULL	1558.09	0.0269	1957.59	33.562	0.0538	NULL	NULL	NULL	2252.79	19.181	0.196	2334.53	39.913	0.25
K15-207	43	NULL	NULL	NULL	1556.71	0.0257	1957.55	32.362	0.0499	NULL	NULL	NULL	2253.04	18.871	0.193	2333.46	37.157	0.247
K15-207	46	NULL	NULL	NULL	1556.65	0.0272	1954.98	32.418	0.0522	NULL	NULL	NULL	2252.62	19.617	0.194	2337.34	38.645	0.251
K15-207	49	NULL	NULL	NULL	1557.1	0.0495	1911.93	33.627	0.11	NULL	NULL	NULL	2253.21	19.691	0.223	2342.16	39.52	0.296
K15-207	50.8	NULL	NULL	NULL	1557.33	0.0483	1912.42	32.109	0.104	NULL	NULL	NULL	2252.94	18.801	0.222	2337.98	38.581	0.291
K15-207	52	NULL	NULL	NULL	1557.86	0.048	1911.31	30.355	0.107	NULL	NULL	NULL	2252.73	19.409	0.221	2339.34	38.944	0.292
K15-207	55	NULL	NULL	NULL	1556.13	0.0487	1956.34	44.285	0.0929	NULL	NULL	NULL	2252.51	18.704	0.24	2338.18	39.485	0.297
K15-207	57.1	NULL	NULL	NULL	1558.66	0.0535	1911.62	41.336	0.0972	NULL	NULL	NULL	2252.59	18.766	0.25	2337.16	39.421	0.313
K15-207	66.2	NULL	NULL	NULL	1556.63	0.0519	1951.24	42.292	0.0935	NULL	NULL	NULL	2252.6	18.811	0.245	2339.05	37.323	0.306
K15-207	71.8	NULL	NULL	NULL	1555.73	0.0395	1911.78	28.335	0.145	NULL	NULL	NULL	2252.33	18.595	0.207	2334.19	38.603	0.273
K15-207	74	1473.85	15.311	0.0198	1556.18	0.0384	1912.33	27.557	0.14	NULL	NULL	NULL	2252.31	19.027	0.201	2336.95	39.253	0.274
K15-207	77.5	NULL	NULL	NULL	1555.27	0.0384	1912.27	30.144	0.136	NULL	NULL	NULL	2252.53	18.532	0.207	2340.21	38.691	0.277
K15-207	77.5	1472.48	18.837	0.000678	1545.77	0.000812	1949.09	34.252	0.0155	2219.23	29.629	0.105	NULL	NULL	NULL	2341.77	38.513	0.0548
K15-207	77.7	NULL	NULL	NULL	1555.51	0.00055	1950.19	37.124	0.0136	2220.33	30.656	0.0869	2243.79	16.83	0.049	2339.61	38.898	0.0458
K15-207	80.2	1472.63	18.021	0.00149	1564.26	0.00153	1948.77	41.032	0.0153	2221.15	28.663	0.0831	2242.91	16.168	0.0452	2337.64	37.783	0.046
K15-207	85.6	NULL	NULL	NULL	1551.43	0.0017	1913.09	31.185	0.0129	2213.3	34.159	0.351	NULL	NULL	NULL	2347.34	39.98	0.203

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-207	90.6	NULL	NULL	NULL	1553.88	0.00179	1909.52	30.954	0.0135	2212.94	34.386	0.352	NULL	NULL	NULL	2347.46	39.982	0.207
K15-207	95	NULL	NULL	NULL	1552.43	0.0015	1909.96	30.994	0.012	2213.4	34.646	0.348	NULL	NULL	NULL	2347.29	39.272	0.206
K15-207	100	NULL	NULL	NULL	1552.28	0.000669	1926.72	46.027	0.0171	2204.48	32.89	0.218	NULL	NULL	NULL	2347.21	38.957	0.114
K15-207	105	NULL	NULL	NULL	1564.09	0.000757	1945.24	43.715	0.017	2205.49	32.795	0.216	NULL	NULL	NULL	2342.87	38.619	0.115
K15-207	110	NULL	NULL	NULL	1542.44	0.00108	1927.44	44.35	0.0171	2205.96	33.699	0.219	NULL	NULL	NULL	2345.08	38.068	0.131
K15-226	6	NULL	NULL	NULL	1546.89	0.026	1959.79	25.922	0.0168	2212.41	34.432	0.273	NULL	NULL	NULL	2346.68	39.126	0.167
K15-226	6	NULL	NULL	NULL	1548.09	0.0264	1953.87	27.658	0.0143	2211.57	34.132	0.272	NULL	NULL	NULL	2345.1	38.532	0.164
K15-226	6	NULL	NULL	NULL	1546.88	0.027	1956.59	27.937	0.0157	2211.51	34.461	0.273	NULL	NULL	NULL	2348.31	39.188	0.17
K15-226	9	1476.59	15.416	0.0143	1549.99	0.0151	1946.57	35.955	0.046	2206.75	29.225	0.0407	2241.54	16.277	0.0214	2329.95	28.794	0.0126
K15-226	9	1499.96	21.544	0.0151	1548.09	0.0162	1943.41	37.374	0.0419	2203.25	30.466	0.039	NULL	NULL	NULL	2327.83	32.1	0.0118
K15-226	9	1487.95	19.097	0.0178	1557.91	0.0195	1948.09	37.413	0.048	2207.43	33.81	0.0348	NULL	NULL	NULL	2329.42	29.881	0.0105
K15-226	12	NULL	NULL	NULL	1549.41	0.000286	1927.38	42.92	0.0122	2209.83	31.367	0.117	NULL	NULL	NULL	2346.29	38.042	0.0576
K15-226	12	1470.64	12.622	0.00165	1541.77	0.000478	1931.92	43.878	0.0092	2210.12	31.049	0.114	NULL	NULL	NULL	2346.22	37.226	0.0577
K15-226	12	NULL	NULL	NULL	1548.13	0.000376	1951.31	39.489	0.0112	2209.9	31.444	0.113	NULL	NULL	NULL	2345.14	37.43	0.0548
K15-226	15	1478.16	18.462	0.008	1550.2	0.00813	1933.07	41.664	0.0123	2209.67	32.033	0.152	NULL	NULL	NULL	2348.15	34.921	0.0781
K15-226	15	1475.23	16.061	0.00844	NULL	NULL	1943.92	36.37	0.011	2209.02	31.899	0.166	NULL	NULL	NULL	2350.83	34.453	0.0892
K15-226	15	1470.4	14.016	0.00789	1552.64	0.00821	1940.08	29.067	0.0114	2209.47	31.441	0.153	NULL	NULL	NULL	2349.44	33.358	0.0785
K15-226	18	1493.65	16.457	0.0108	1561.3	0.0125	1943.83	33.775	0.0354	2207.76	31.065	0.0774	2242.22	15.105	0.0251	2351.23	33.494	0.0383
K15-226	18	1492.22	13.901	0.0124	1567.03	0.0138	1948.76	32.987	0.0346	2205.98	30.868	0.0747	2243.83	12.9	0.0247	2353.37	32.832	0.0309
K15-226	18	1498.72	16.707	0.0124	1540.07	0.0139	1939.45	39.698	0.0317	2207.89	31.856	0.0767	2242.67	12.657	0.0263	NULL	NULL	NULL
K15-226	24	NULL	NULL	NULL	NULL	NULL	1934.02	46.09	0.258	2208.55	29.288	0.0312	2242.28	12.549	0.00467	2326.71	33.867	0.0108
K15-226	24	NULL	NULL	NULL	NULL	NULL	1932.96	45.922	0.248	2206.72	30.329	0.0312	2243.07	10.649	0.00432	2334.52	34.153	0.0142
K15-226	24	NULL	NULL	NULL	NULL	NULL	1933.6	46.335	0.259	2207.28	29.857	0.0301	2243.77	12.397	0.00307	2337.72	32.501	0.0145
K15-226	27	1495.27	14.95	0.00137	1548.51	0.0032	1917.05	34.403	0.00343	2210.57	32.266	0.226	NULL	NULL	NULL	2349.63	36.166	0.122
K15-226	27	1474.96	17.336	0.00403	1548.66	0.0053	1951.33	30.391	0.00323	2210.71	32.16	0.213	NULL	NULL	NULL	2350.91	35.204	0.115
K15-226	27	1499.83	13.233	0.00168	1558.82	0.00207	1934.83	34.484	0.00256	2210.45	32.166	0.232	NULL	NULL	NULL	2348.51	36.234	0.125
K15-226	30	1472.89	15.099	0.00237	1550.88	0.000673	1925.49	43.798	0.0219	2211.38	33.209	0.227	NULL	NULL	NULL	2349.13	37.741	0.125
K15-226	30	NULL	NULL	NULL	1545.68	0.000969	1930.74	44.764	0.0214	2210.54	33.133	0.231	NULL	NULL	NULL	2345.82	37.456	0.128
K15-226	30	NULL	NULL	NULL	1548.89	0.000931	1929.72	42.821	0.0191	2211.15	33.025	0.229	NULL	NULL	NULL	2346.4	38.004	0.125
K15-226	33	NULL	NULL	NULL	1545.92	0.00284	1921	33.375	0.00662	2212.25	32.925	0.251	NULL	NULL	NULL	2350.08	36.698	0.141
K15-226	33	1472.81	15.533	0.000807	1549.81	0.00317	1917.22	35.896	0.00453	2212.22	32.786	0.248	NULL	NULL	NULL	2350.05	36.542	0.143
K15-226	33	1498.64	12.391	0.000543	1543.18	0.0022	1925.75	43.15	0.00306	2212.22	32.707	0.253	NULL	NULL	NULL	2349.56	36.285	0.142
K15-226	36	NULL	NULL	NULL	1547.14	0.00167	1916.93	31.808	0.0047	2212.27	32.844	0.297	NULL	NULL	NULL	2349	36.73	0.18
K15-226	36	1471.14	12.887	0.000581	1553.15	0.00207	1913.13	31.881	0.00421	2212.41	32.907	0.295	NULL	NULL	NULL	2348.36	37.056	0.173
K15-226	36	1470.09	8.315	0.000931	1554.69	0.00183	1911.34	30.099	0.00394	2212.32	32.988	0.303	NULL	NULL	NULL	2350.21	35.95	0.183
K15-226	39	1472.36	17.577	0.0003	1549.84	0.00168	1912.02	37.169	0.0132	2214.75	32.736	0.373	NULL	NULL	NULL	2352.79	36.454	0.234
K15-226	39	NULL	NULL	NULL	1557.95	0.00132	1913.32	38.94	0.0116	2214.93	32.608	0.373	NULL	NULL	NULL	2349.84	36.081	0.238

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-226	39	NULL	NULL	NULL	1549.31	0.00162	1917.47	35.306	0.011	2214.96	32.648	0.36	NULL	NULL	NULL	2352.89	36.123	0.23
K15-226	42	NULL	NULL	NULL	1551.09	0.00131	1907	31.66	0.00495	2214.56	32.834	0.26	NULL	NULL	NULL	2349.73	38.678	0.151
K15-226	42	NULL	NULL	NULL	1547.82	0.00167	1916.37	31.949	0.00629	2214.48	33.127	0.212	NULL	NULL	NULL	2344.89	40.281	0.117
K15-226	42	NULL	NULL	NULL	1549.97	0.00144	1910.17	29.52	0.00466	2215.05	33.151	0.273	NULL	NULL	NULL	2346.15	39.022	0.158
K15-226	45	NULL	NULL	NULL	1551.75	0.0057	1911.11	23.747	0.0498	2214.48	33.852	0.298	NULL	NULL	NULL	2348.71	39.174	0.205
K15-226	45	NULL	NULL	NULL	1542.37	0.00698	1911.36	23.753	0.0418	2214.66	33.935	0.301	NULL	NULL	NULL	2346.51	39.433	0.211
K15-226	45	NULL	NULL	NULL	1549.71	0.00617	1911.68	24.277	0.0441	2214.77	33.946	0.298	NULL	NULL	NULL	2347	39.036	0.208
K15-226	51.2	NULL	NULL	NULL	1548.17	0.0022	1912.2	36.475	0.0262	2215.08	32.809	0.246	NULL	NULL	NULL	2350.21	38.603	0.158
K15-226	51.2	1473.42	14.41	0.00231	1543.31	0.00236	1911.02	32.631	0.0245	2215.27	32.974	0.249	NULL	NULL	NULL	2347.82	37.995	0.162
K15-226	51.2	NULL	NULL	NULL	1551.73	0.00226	1912.05	38.72	0.023	2215.63	33.254	0.25	NULL	NULL	NULL	2349.93	37.036	0.166
K15-226	54	1485.54	15.066	0.000456	1539.92	0.000537	1944.89	30.586	0.00403	2213.43	34.352	0.0496	2242.36	12.815	0.0476	2331.83	31.313	0.0349
K15-226	54	1497.25	16.85	0.000353	1537.74	0.00122	1952.58	30.834	0.00507	2211.36	31.562	0.0494	2244.82	13.368	0.0453	2332.61	31.757	0.0339
K15-226	54	1480.45	14.619	0.000494	1555.93	0.000463	1949.28	30.876	0.00504	2224.99	33.611	0.0513	2243.71	12.896	0.0472	2322.98	22.439	0.0374
K15-226	57	NULL	NULL	NULL	1540.57	0.00284	1942.9	34.071	0.0613	2212.21	32.812	0.226	NULL	NULL	NULL	2347.65	35.802	0.119
K15-226	57	NULL	NULL	NULL	1541.52	0.00329	1943.05	34.277	0.0586	2212.78	32.686	0.227	NULL	NULL	NULL	2350.17	36.289	0.12
K15-226	57	NULL	NULL	NULL	1538.27	0.00232	1942.54	34.389	0.0599	2211.43	32.72	0.227	NULL	NULL	NULL	2350.23	35.803	0.122
K15-226	60	1473.5	15.132	0.00228	1548.5	0.00353	1917.42	35.154	0.0165	2211.79	33.298	0.215	NULL	NULL	NULL	2352.51	37.424	0.119
K15-226	60	1473.72	11.66	0.00179	1549.87	0.00304	1917.08	36.386	0.0139	2211.93	33.268	0.219	NULL	NULL	NULL	2350.87	38.361	0.118
K15-226	60	NULL	NULL	NULL	1547.72	0.00296	1915.8	34.297	0.014	2211.57	33.463	0.226	NULL	NULL	NULL	2349.71	37.795	0.126
K15-226	63	1491.44	11.797	0.000521	1557.68	0.000693	1939.51	33.8	0.00577	2228.18	28.473	0.0357	2242.98	13.66	0.0333	2320.64	32.321	0.0249
K15-226	63	1482.24	13.577	0.00048	1547.95	0.000703	1940.8	29.379	0.00623	2216.75	28.963	0.0374	NULL	NULL	NULL	2321.91	28.005	0.0284
K15-226	63	1473.23	15.07	0.000312	1548.17	0.000705	1947.57	33.253	0.00774	2215.46	31.116	0.0303	2242.68	21.242	0.0272	2328.96	35.149	0.0188
K15-226	68	1475.69	13.546	0.000454	1545.61	0.000395	1947.21	30.017	0.00639	2226.1	33.961	0.034	2240.09	14.059	0.0333	2322.51	22.659	0.0254
K15-226	68	1489.79	10.549	0.000374	1562.03	0.000544	1946.1	34.995	0.00622	2221.04	32.683	0.0457	2240.48	12.735	0.0446	2330.92	25.787	0.0371
K15-226	68	1499.9	8.006	0.000472	1567.31	0.000253	1943.87	33.414	0.00571	2206.01	29.792	0.0357	2248.83	14.337	0.0336	2326.66	25.356	0.0274
K15-226	73	1485.15	16.229	0.000829	1550.99	0.000661	1944.53	36.906	0.00495	2226.71	30.775	0.0267	NULL	NULL	NULL	2319.76	29.648	0.0213
K15-226	73	1489.79	11.913	0.000818	1556.32	0.000842	1951.27	29.305	0.00517	2222.33	30.168	0.0231	2258.8	17.95	0.0227	2328.22	32.204	0.0147
K15-226	73	1490.94	15.282	0.00066	1558.52	0.000709	1949.05	39.576	0.0054	2221.42	31.667	0.0284	2245.51	15.469	0.0282	2320.29	30.058	0.0264
K15-226	78	NULL	NULL	NULL	NULL	NULL	1911.16	31.713	0.137	2213.16	33.23	0.26	NULL	NULL	NULL	2350.45	37.517	0.146
K15-226	78	NULL	NULL	NULL	1542.04	0.00186	1910.83	31.872	0.137	2213.45	33.307	0.279	NULL	NULL	NULL	2349.75	37.647	0.16
K15-226	78	NULL	NULL	NULL	1540.65	0.00171	1910.77	31.544	0.132	2213.17	33.352	0.293	NULL	NULL	NULL	2349.71	38.191	0.171
K15-226	83	NULL	NULL	NULL	1564.02	0.00137	1951.79	31.042	0.00511	2217.6	29.912	0.0774	NULL	NULL	NULL	2336.27	37.938	0.0466
K15-226	83	1472.88	16.707	0.00144	1548.25	0.000657	1950.28	31.975	0.007	2217.09	28.631	0.0834	NULL	NULL	NULL	2324.55	35.959	0.0503
K15-226	83	1472.49	29.085	0.000222	1551.26	0.000969	1941.92	28.726	0.00694	2216.96	30.268	0.0775	NULL	NULL	NULL	2331.91	35.988	0.0467
K15-226	93	NULL	NULL	NULL	1544.6	0.000527	1947.17	46.227	0.0089	2214.89	32.227	0.173	NULL	NULL	NULL	2345.66	37.74	0.0946
K15-226	93	NULL	NULL	NULL	1550.27	0.000762	1953.13	44.248	0.00771	2214.78	32.239	0.172	NULL	NULL	NULL	2351.35	38.282	0.0986
K15-226	93	NULL	NULL	NULL	1550.74	0.000864	1937.49	38.942	0.00727	2214.82	32.152	0.175	NULL	NULL	NULL	2345.52	38.103	0.1

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-226	98	NULL	NULL	NULL	1548.7	0.00157	1923.09	34.899	0.00945	2217	32.977	0.227	NULL	NULL	NULL	2355.63	36.768	0.143
K15-226	98	NULL	NULL	NULL	1546.94	0.00136	1936.21	34.561	0.00853	2215.58	32.749	0.217	NULL	NULL	NULL	2349.89	36.255	0.135
K15-226	98	1471.71	12.658	0.00154	1548.95	0.00167	1926.45	27.716	0.00812	2215.52	32.471	0.225	NULL	NULL	NULL	2353.73	36.603	0.142
K15-226	103	1487.43	15.549	0.000283	1560.13	0.000519	1952.23	32.731	0.00449	2213.74	34.347	0.046	2246.96	18.856	0.0458	2325.22	30	0.0356
K15-226	103	1492.42	18.25	0.00029	1551.9	0.000645	1953.42	31.02	0.00306	2219.02	31.089	0.0425	2240.08	18.608	0.0392	2322.62	29.855	0.0288
K15-226	103	NULL	NULL	NULL	1543.93	0.000749	1955.06	26.91	0.00435	2227.69	30.599	0.049	2255.2	18.02	0.0472	2329.36	30.419	0.0387
K15-226	108	1480.67	16.216	0.00111	NULL	NULL	1954.33	33.011	0.00446	NULL	NULL	NULL	2241.86	15.915	0.0279	2328.94	32.846	0.0209
K15-226	108	1484.76	12.926	0.000578	1566.23	0.000853	1951.08	24.59	0.00481	2227.41	33.022	0.028	2248.61	13.269	0.0276	2329.09	28.221	0.021
K15-226	108	1484.78	23.069	0.000344	1555.89	0.00143	1953.06	25.335	0.00397	2213.83	32.279	0.0298	2241.46	14.724	0.0286	2328.18	32.666	0.0199
K15-226	113	NULL	NULL	NULL	1557.36	0.000465	1915.58	37.528	0.00831	2214.06	34.425	0.298	NULL	NULL	NULL	2350.51	38.08	0.177
K15-226	113	1471.68	11.544	0.000653	1544.58	0.000469	1920.54	43.821	0.00779	2214.04	34.258	0.295	NULL	NULL	NULL	2354.93	38.744	0.173
K15-226	113	NULL	NULL	NULL	1539.04	0.000373	1908.74	40.583	0.00771	2213.64	34.258	0.296	NULL	NULL	NULL	2350.1	38.641	0.174
K15-226	118	1473.97	15.318	0.00393	1549.78	0.00122	1910.71	32.763	0.0507	2219.14	32.194	0.333	NULL	NULL	NULL	2346.05	40.739	0.204
K15-226	118	NULL	NULL	NULL	1552.4	0.00184	1910.12	32.36	0.0519	2219.09	32.241	0.336	NULL	NULL	NULL	2346.87	39.889	0.212
K15-226	118	NULL	NULL	NULL	1548.48	0.0023	1910.52	31.331	0.0483	2219.27	32.184	0.335	NULL	NULL	NULL	2350.17	40.124	0.216
K15-226	123	1472.99	12.269	0.000864	1553.87	0.00105	1941.35	37.546	0.0185	2220.72	29.919	0.238	NULL	NULL	NULL	2345.97	39.732	0.149
K15-226	123	NULL	NULL	NULL	1544.32	0.000993	1938.38	38.292	0.0178	2220.53	29.42	0.232	NULL	NULL	NULL	2348.22	39.05	0.14
K15-226	123	1472.48	15.496	0.00129	1562.24	0.000882	1941.65	39.529	0.0197	2220.58	29.324	0.267	NULL	NULL	NULL	2347.91	38.787	0.166
K15-226	129.3	NULL	NULL	NULL	NULL	NULL	1936.5	46.761	0.167	2221.05	26.027	0.055	2243.27	16.696	0.0277	2335.79	33.732	0.106
K15-226	129.3	NULL	NULL	NULL	NULL	NULL	1930.47	46.735	0.162	2221.26	25.305	0.0555	NULL	NULL	NULL	2339.19	32.862	0.109
K15-226	129.3	NULL	NULL	NULL	NULL	NULL	1931.32	45.935	0.178	2219.88	24.606	0.0428	2240.42	11.058	0.0211	2338.44	34.672	0.0822
K15-226	132	1471.95	16.15	0.00117	1551.31	0.000626	1929.86	46.5	0.0211	2221.48	28.804	0.25	NULL	NULL	NULL	2348.06	38.48	0.154
K15-226	132	1472.2	12.528	0.00177	1541.74	0.000677	1924.97	40.371	0.0216	2220.77	28.769	0.255	NULL	NULL	NULL	2350.17	39.013	0.161
K15-226	132	1473.98	13.228	0.00113	1552.43	0.000805	1927.69	40.75	0.0218	2221.64	28.927	0.248	NULL	NULL	NULL	2347.99	38.769	0.154
K15-226	135	NULL	NULL	NULL	NULL	NULL	1925.24	42.524	0.0506	2200.51	29.249	0.104	NULL	NULL	NULL	2346.16	37.535	0.0452
K15-226	135	NULL	NULL	NULL	NULL	NULL	1924.29	43.868	0.0506	2200.16	28.98	0.0967	NULL	NULL	NULL	2345.54	37.682	0.0427
K15-226	135	NULL	NULL	NULL	NULL	NULL	1929.73	45.024	0.0493	2200.54	28.883	0.101	NULL	NULL	NULL	2344.48	37.791	0.0444
K15-226	138	NULL	NULL	NULL	1537.24	0.00401	1939.05	41.005	0.0798	2208.5	33.588	0.281	NULL	NULL	NULL	2349.03	38.026	0.16
K15-226	138	1472.49	16.658	0.00849	1544.73	0.00456	1941.61	38.344	0.0955	2206.51	33.52	0.254	NULL	NULL	NULL	2347.92	38.257	0.145
K15-226	138	NULL	NULL	NULL	1546.63	0.000511	1940.32	38.079	0.0151	2208.51	34.035	0.337	NULL	NULL	NULL	2345.92	38.506	0.205
K15-226	141	NULL	NULL	NULL	NULL	NULL	1940.64	43.399	0.123	2208.58	34.041	0.282	NULL	NULL	NULL	2347.29	37.254	0.166
K15-226	141	1470.04	11.543	0.00244	1545.15	0.00133	1937.81	40.195	0.015	2208.42	33.269	0.31	NULL	NULL	NULL	2348.97	37.297	0.188
K15-226	141	NULL	NULL	NULL	1550.92	0.00321	1938.38	37.331	0.00926	2209.9	34.584	0.344	NULL	NULL	NULL	2346.17	39.119	0.214
K15-226	144	NULL	NULL	NULL	NULL	NULL	1930.96	44.601	0.0547	2211.31	34.149	0.265	NULL	NULL	NULL	2351.24	39.69	0.155
K15-226	144	NULL	NULL	NULL	1545.82	0.0123	1934.1	43.815	0.134	2211.01	34.455	0.385	NULL	NULL	NULL	2348.34	38.129	0.239
K15-226	144	1471.1	17.149	0.0149	NULL	NULL	1942.97	37.333	0.0543	2210	31.56	0.163	NULL	NULL	NULL	2347.18	35.253	0.0878
K15-226	147	NULL	NULL	NULL	1546.43	0.00411	1941.81	38.041	0.0207	2211.41	32.346	0.173	NULL	NULL	NULL	2353.05	36.141	0.107

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-226	147	1498.46	15.279	0.0114	1560.75	0.0131	1940.14	35.714	0.0258	2212.88	31.286	0.0789	2240.21	12.118	0.0297	2348.24	33.565	0.0363
K15-226	147	NULL	NULL	NULL	1548.09	0.00111	1931.73	40.085	0.036	2210.7	33.026	0.0426	2251.23	9.411	0.0221	2333.79	39.784	0.0369
K15-226	150	1498.9	16.87	0.0103	1550.09	0.0115	1948.11	38.532	0.0234	2207.94	31.726	0.0989	2242.51	14.881	0.0286	2355.91	33.696	0.0479
K15-226	150	1497.62	20.635	0.0257	1566.3	0.0325	1938.86	33.594	0.0547	2209.67	34.358	0.0871	NULL	NULL	NULL	NULL	NULL	NULL
K15-226	150	1479.13	12.845	0.000612	1567.15	0.000973	1955.41	32.383	0.00391	2203.9	30.989	0.0364	2241.43	15.915	0.0308	2332.82	27.723	0.0238
K15-226	153	1492.2	14.847	0.00034	1567.29	0.000574	1940.17	38.426	0.0114	2221.12	29.777	0.0227	NULL	NULL	NULL	2315.76	39.656	0.0168
K15-226	153	1471.81	17.045	0.00146	NULL	NULL	1958.58	28.772	0.0118	2219.21	24.064	0.056	2253.4	19.536	0.0532	2322.02	33.662	0.0451
K15-226	153	NULL	NULL	NULL	NULL	NULL	1922.01	39.321	0.0897	2215.35	34.911	0.325	NULL	NULL	NULL	2345.12	40.579	0.2
K15-226	159.1	NULL	NULL	NULL	NULL	NULL	1937.86	40.977	0.0274	2209.25	33.499	0.169	2240.16	14.154	0.0744	2342.97	40.019	0.0964
K15-226	159.1	1473.24	12.336	0.00245	1548.06	0.00199	1908.1	33.861	0.023	2210.85	35.126	0.421	NULL	NULL	NULL	2349.05	39.852	0.26
K15-226	159.1	1472.04	12.719	0.000947	1546.37	0.00088	NULL	NULL	NULL	2212.9	32.039	0.0924	NULL	NULL	NULL	2342.74	37.316	0.055
K15-226	162	NULL	NULL	NULL	1557.12	0.000412	1915.74	24.208	0.0144	2210.64	33.332	0.185	NULL	NULL	NULL	2337.19	41.981	0.105
K15-226	162	NULL	NULL	NULL	NULL	NULL	1947.42	38.025	0.0478	2208.76	31.177	0.0691	2255.35	19.681	0.108	2332.81	37.399	0.14
K15-226	162	NULL	NULL	NULL	1546.11	0.00241	1914.3	37.972	0.0396	2216.15	33.425	0.359	NULL	NULL	NULL	2349.1	39.597	0.22
K15-226	165	NULL	NULL	NULL	1542.59	0.00081	1913.85	37.808	0.0467	2218.2	33.289	0.398	NULL	NULL	NULL	2348.16	40.148	0.261
K15-226	165	NULL	NULL	NULL	NULL	NULL	1910.67	33.089	0.0822	2218.74	32.303	0.264	NULL	NULL	NULL	2344.4	39.284	0.174
K15-226	165	NULL	NULL	NULL	NULL	NULL	1909.92	32.087	0.235	2209.37	31.055	0.362	NULL	NULL	NULL	2351.46	38.498	0.194
K15-226	175.6	NULL	NULL	NULL	1566.83	0.0015	1940.68	40.325	0.0206	2212.28	31.901	0.0345	NULL	NULL	NULL	2340.53	35.024	0.0427
K15-226	175.6	NULL	NULL	NULL	NULL	NULL	1932.99	46.39	0.154	2195.09	32.686	0.0126	2242.49	9.806	0.00293	2327.26	36.212	0.00662
K15-226	175.6	NULL	NULL	NULL	1544.14	0.00252	1910.27	33.926	0.0578	2221.48	31.026	0.41	NULL	NULL	NULL	2348.05	40.086	0.284
K15-226	179.6	NULL	NULL	NULL	1540.52	0.00396	1921.68	40.233	0.0926	2220.04	29.692	0.246	NULL	NULL	NULL	2348.38	37.359	0.155
K15-226	179.6	NULL	NULL	NULL	1538.75	0.00207	1919.27	41.134	0.0573	2221.96	28.744	0.139	NULL	NULL	NULL	2345.81	39.197	0.0864
K15-226	179.6	1472.26	16.184	0.00442	1545.31	0.000647	1918.23	40.348	0.0562	2221.7	28.698	0.16	NULL	NULL	NULL	2346.5	39.02	0.103
K15-226	182.6	1472.23	17.273	0.00453	1559.3	0.00108	1918	40.448	0.0548	2221.89	28.308	0.158	NULL	NULL	NULL	2342.94	38.972	0.0969
K15-226	182.6	1472.32	9.718	0.00105	1558.54	0.00036	1915.25	38.228	0.0241	2220.75	30.752	0.377	NULL	NULL	NULL	2347.16	40.166	0.24
K15-226	182.6	NULL	NULL	NULL	1557.73	0.000602	1913.87	38.455	0.023	2221.04	30.865	0.377	NULL	NULL	NULL	2347.77	40.223	0.237
K15-226	185.6	NULL	NULL	NULL	1560.54	0.000476	1918.11	43.678	0.024	2221.34	30.807	0.368	NULL	NULL	NULL	2348.26	39.886	0.235
K15-226	185.6	1473.04	11.115	0.00164	1563.25	0.000463	1917.48	39.285	0.0221	2220.96	30.466	0.35	NULL	NULL	NULL	2348.45	39.397	0.222
K15-226	185.6	1471.19	10.563	0.000904	1567.07	0.000297	1918.87	41.042	0.0237	2220.46	30.609	0.34	NULL	NULL	NULL	2350.23	39.85	0.205
K15-226	188.6	1470.39	10.705	0.00122	1556.66	0.000729	1912.56	43.868	0.0197	2220.71	30.559	0.348	NULL	NULL	NULL	2347.21	39.929	0.208
K15-226	188.6	NULL	NULL	NULL	1538.57	0.000581	1940.53	36.79	0.0465	2220.12	30.536	0.295	NULL	NULL	NULL	2349.22	39.232	0.18
K15-226	188.6	1473.81	15.766	0.000633	1545.37	0.00061	1940.51	37.276	0.0426	2220.44	30.315	0.314	NULL	NULL	NULL	2348.71	39.882	0.189
K15-226	191.6	1473.1	17.332	0.000421	1560.31	0.000513	1940.98	37.069	0.038	2220.61	30.376	0.312	NULL	NULL	NULL	2350.76	39.354	0.19
K15-226	191.6	NULL	NULL	NULL	1540.73	0.00191	1908.31	31.452	0.206	2220.69	30.767	0.307	NULL	NULL	NULL	2350.13	39.313	0.193
K15-226	191.6	NULL	NULL	NULL	NULL	NULL	1909.03	32.206	0.181	2221.14	30.705	0.277	NULL	NULL	NULL	2349.34	39.394	0.174
K15-226	194.6	NULL	NULL	NULL	1542.02	0.00127	1908.48	32.066	0.186	2221.09	30.816	0.275	NULL	NULL	NULL	2351.34	39.868	0.167
K15-226	194.6	NULL	NULL	NULL	1547.23	0.00065	1918.79	35.224	0.012	2221.91	26.593	0.107	2242.62	20.876	0.0713	2356.64	37.282	0.0787

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-226	194.6	1496.4	14.482	0.000489	1561.09	0.000295	1927.37	40.239	0.0102	2222.76	26.993	0.115	2242.49	20.399	0.0771	2349.07	38.399	0.0851
K15-226	197.6	1493.3	19.117	0.000693	1560.32	0.000861	1922.88	35.558	0.00995	2221.55	26.812	0.112	2240.31	20.182	0.0776	2342.41	38.543	0.0803
K15-226	197.6	NULL	NULL	NULL	1557.46	0.000416	1907.75	33.181	0.123	2218.01	30.696	0.216	NULL	NULL	NULL	2348.82	36.181	0.115
K15-226	197.6	NULL	NULL	NULL	1549.12	0.000207	1908.69	33.072	0.141	2217.4	31.193	0.227	NULL	NULL	NULL	2346.87	36.419	0.121
K15-226	200.6	NULL	NULL	NULL	NULL	NULL	1907.98	33.586	0.134	2217.65	30.833	0.225	NULL	NULL	NULL	2348.28	36.952	0.121
K15-226	200.6	NULL	NULL	NULL	1540.4	0.000757	1910.58	40.664	0.125	2216.28	32.346	0.305	NULL	NULL	NULL	2348.99	36.909	0.177
K15-226	200.6	NULL	NULL	NULL	1544.89	0.000829	1939.32	42.55	0.119	2212.4	32.243	0.257	NULL	NULL	NULL	2349.24	37.614	0.133
K15-226	203.8	NULL	NULL	NULL	1558.61	0.000253	1938.21	46.56	0.117	2211.35	31.615	0.235	NULL	NULL	NULL	2348.88	37.452	0.117
K15-226	203.8	NULL	NULL	NULL	1538.74	0.00551	1941.86	37.074	0.207	2215.17	32.283	0.243	NULL	NULL	NULL	2349.21	36.949	0.12
K15-226	203.8	NULL	NULL	NULL	1538.73	0.00294	1941.73	36.659	0.153	2215.64	32.245	0.276	NULL	NULL	NULL	2350.29	36.989	0.152
K15-226	206.6	NULL	NULL	NULL	NULL	NULL	1941.78	36.937	0.164	2215.2	32.225	0.227	NULL	NULL	NULL	2350.19	37.004	0.115
K15-226	206.6	1481.54	15.043	0.00102	1541.47	0.000925	1948.21	39.962	0.0235	2216.75	31.046	0.0837	NULL	NULL	NULL	2350.4	34.822	0.0482
K15-226	206.6	1496.07	12.965	0.000406	1562.71	0.000454	1940.47	38.386	0.0253	2216.83	31.225	0.0836	NULL	NULL	NULL	2349.16	36.739	0.0424
K15-226	209.6	1479.83	17.999	0.000382	1552.63	0.0009	1940.05	33.283	0.0222	2217.4	30.288	0.0828	NULL	NULL	NULL	2350.89	37.992	0.0429
K15-226	209.6	NULL	NULL	NULL	1538.29	0.0033	1941.85	36.883	0.128	2216.18	32.105	0.192	NULL	NULL	NULL	2346.42	37.061	0.101
K15-226	209.6	NULL	NULL	NULL	1539.34	0.00343	1941.42	36.931	0.143	2216.66	31.911	0.198	NULL	NULL	NULL	2352.71	38.242	0.102
K15-226	212.6	NULL	NULL	NULL	1539.57	0.00225	1941.42	36.916	0.141	2216.92	31.868	0.204	NULL	NULL	NULL	2350.37	38.016	0.104
K15-226	212.6	NULL	NULL	NULL	NULL	NULL	1911.68	35.4	0.167	2212.5	34.268	0.334	NULL	NULL	NULL	2347.99	38.423	0.196
K15-226	212.6	NULL	NULL	NULL	NULL	NULL	1911.63	35.375	0.162	2212.8	34.073	0.319	NULL	NULL	NULL	2347.18	38.866	0.186
K15-226	215.6	NULL	NULL	NULL	NULL	NULL	1912.16	35.823	0.16	2212.64	34.088	0.286	NULL	NULL	NULL	2344.26	39.299	0.164
K15-226	215.6	NULL	NULL	NULL	NULL	NULL	1940.32	38.433	0.203	2214.3	32.847	0.165	NULL	NULL	NULL	2346.56	36.501	0.0722
K15-226	215.6	NULL	NULL	NULL	NULL	NULL	1939.41	38.693	0.241	2214.06	33.13	0.204	NULL	NULL	NULL	2346.72	36.178	0.09
K15-226	218.6	NULL	NULL	NULL	1542.92	0.000995	1940.08	39.051	0.168	2214.51	32.323	0.149	NULL	NULL	NULL	2343.15	35.279	0.0604
K15-226	218.6	NULL	NULL	NULL	1538.53	0.00261	1909.99	33.226	0.133	2206.65	30.25	0.286	NULL	NULL	NULL	2347.19	38.801	0.116
K15-226	218.6	NULL	NULL	NULL	1538.94	0.000603	1909.85	33.058	0.16	2206.9	30.197	0.304	NULL	NULL	NULL	2347.45	39.138	0.116
K15-226	221.6	NULL	NULL	NULL	1539.17	0.000826	1909.61	33.008	0.143	2206.73	30.218	0.287	NULL	NULL	NULL	2348.05	38.833	0.113
K15-226	221.6	NULL	NULL	NULL	NULL	NULL	1940.55	41.272	0.12	2213.22	33.379	0.309	NULL	NULL	NULL	2349.11	37.09	0.177
K15-226	221.6	NULL	NULL	NULL	1542.22	0.00262	1940.32	41.53	0.117	2212.97	33.444	0.307	NULL	NULL	NULL	2348.47	37.192	0.177
K15-226	224.6	NULL	NULL	NULL	NULL	NULL	1940.24	41.376	0.113	2212.73	33.678	0.303	NULL	NULL	NULL	2349.9	37.201	0.173
K15-226	224.6	NULL	NULL	NULL	NULL	NULL	1929.69	46.438	0.397	2211.17	31.956	0.21	NULL	NULL	NULL	2351.07	35.653	0.103
K15-226	224.6	NULL	NULL	NULL	NULL	NULL	1935.04	47.036	0.338	2211.02	32.145	0.205	NULL	NULL	NULL	2348.77	36.348	0.1
K15-226	227.6	NULL	NULL	NULL	NULL	NULL	1934.56	47.101	0.337	2210.74	31.894	0.22	2243.73	17.374	0.0825	2351.05	36.034	0.101
K15-226	227.6	NULL	NULL	NULL	1543.4	0.000571	1910.85	34.249	0.0769	2212.36	33.573	0.281	NULL	NULL	NULL	2350.72	36.941	0.159
K15-226	227.6	NULL	NULL	NULL	1557.55	0.000493	1909.25	31.591	0.0793	2212.33	33.712	0.329	NULL	NULL	NULL	2349.56	37.653	0.192
K15-250	6.6	1473.1	13.536	0.00373	1559.43	0.00145	1909.58	31.665	0.0726	2211.89	33.364	0.303	NULL	NULL	NULL	2349.51	37.435	0.171
K15-250	6.6	NULL	NULL	NULL	NULL	NULL	1911.42	37.233	0.166	2210.18	33.64	0.354	NULL	NULL	NULL	2349.24	36.816	0.202
K15-250	6.6	NULL	NULL	NULL	NULL	NULL	1912.49	40.268	0.153	2210.18	33.754	0.367	NULL	NULL	NULL	2348.2	36.802	0.209

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-250	11.6	NULL	NULL	NULL	NULL	NULL	1912.32	39.242	0.161	2209.8	33.688	0.356	NULL	NULL	NULL	2349.03	36.845	0.203
K15-250	11.6	NULL	NULL	NULL	NULL	NULL	1939.59	40.199	0.11	2209.82	34.009	0.307	NULL	NULL	NULL	2347.85	37.605	0.169
K15-250	11.6	NULL	NULL	NULL	NULL	NULL	1940.53	40.007	0.116	2210.07	33.967	0.299	NULL	NULL	NULL	2348.14	37.819	0.165
K15-250	16.6	NULL	NULL	NULL	1540.53	0.00366	1940.49	40.138	0.115	2210.35	34.037	0.304	NULL	NULL	NULL	2348.81	37.837	0.166
K15-250	16.6	NULL	NULL	NULL	NULL	NULL	1913.31	32.656	0.0344	2207.11	33.591	0.44	NULL	NULL	NULL	2349.43	38.99	0.256
K15-250	16.6	NULL	NULL	NULL	NULL	NULL	1913.47	31.654	0.0354	2206.55	33.628	0.44	NULL	NULL	NULL	2347.98	38.983	0.257
K15-250	21.6	NULL	NULL	NULL	NULL	NULL	1913.71	31.737	0.0368	2206.64	33.643	0.438	NULL	NULL	NULL	2347.41	39.068	0.253
K15-250	21.6	NULL	NULL	NULL	1554.69	0.00155	1917.1	44.804	0.0331	2206.07	32.665	0.35	NULL	NULL	NULL	2348.75	37.992	0.196
K15-250	21.6	NULL	NULL	NULL	1554.25	0.0015	1909.79	42.773	0.0252	2205.83	32.397	0.34	NULL	NULL	NULL	2347.36	37.507	0.192
K15-250	26.7	1473.17	15.058	0.00177	1554.92	0.00119	1913.57	41.846	0.029	2205.88	32.462	0.342	NULL	NULL	NULL	2347.96	37.478	0.193
K15-250	26.7	NULL	NULL	NULL	1557.62	0.000947	1917.88	40.811	0.0205	2209.42	33.494	0.227	NULL	NULL	NULL	2350.31	37.701	0.128
K15-250	26.7	NULL	NULL	NULL	1544.93	0.000872	1938.85	39.745	0.0209	2209.35	33.707	0.243	NULL	NULL	NULL	2348.78	37.536	0.139
K15-250	31.1	1473.65	10.844	0.000977	1554.91	0.000945	1917.57	42.696	0.0204	2209.98	33.598	0.239	NULL	NULL	NULL	2348.28	37.944	0.135
K15-250	31.1	NULL	NULL	NULL	NULL	NULL	1931.99	45.676	0.161	2210.12	28.962	0.0414	2244.03	14.074	0.0261	2355.76	28.95	0.0216
K15-250	31.1	NULL	NULL	NULL	NULL	NULL	1934.76	46.132	0.157	2207.85	29.472	0.0415	2242.99	15.857	0.0229	2356.86	32.25	0.0184
K15-250	36.6	NULL	NULL	NULL	NULL	NULL	1930.27	45.987	0.164	2207.73	28.782	0.0415	2242.89	15.023	0.0242	2358.84	29.593	0.0235
K15-250	36.6	NULL	NULL	NULL	1565.32	0.000817	1941	36.238	0.0359	2208.18	32.577	0.193	NULL	NULL	NULL	2349.06	36.251	0.104
K15-250	36.6	NULL	NULL	NULL	1556.88	0.000786	1939.77	37.205	0.0359	2207	32.694	0.198	NULL	NULL	NULL	2347.63	36.766	0.106
K15-250	41.6	1472.33	15.35	0.000913	1558.86	0.000739	1943.59	37.639	0.0347	2207.74	32.463	0.196	NULL	NULL	NULL	2346.16	36.703	0.101
K15-250	41.6	1473.5	13.448	0.00264	1539.38	0.000646	1913.1	36.692	0.0273	2209.23	33.866	0.217	NULL	NULL	NULL	2347.31	37.66	0.122
K15-250	41.6	NULL	NULL	NULL	1558.15	0.000601	1914.99	33.383	0.0286	2209	33.852	0.218	NULL	NULL	NULL	2351.24	37.988	0.119
K15-250	46.6	1470.58	10.321	0.00208	NULL	NULL	1909.54	32.9	0.0277	2208.75	33.681	0.202	NULL	NULL	NULL	2347.76	38.604	0.105
K15-250	46.6	NULL	NULL	NULL	1567.45	0.000611	1914.94	32.835	0.0201	2213.11	33.825	0.264	NULL	NULL	NULL	2351.9	38.052	0.163
K15-250	46.6	1470.79	9.813	0.00163	1560.8	0.0009	1908.95	37.578	0.021	2213.15	33.758	0.266	NULL	NULL	NULL	2352.36	38.556	0.159
K15-250	56.6	NULL	NULL	NULL	1553.69	0.000919	1913.64	34.571	0.0192	2213.43	33.417	0.266	NULL	NULL	NULL	2346.13	38.932	0.154
K15-250	56.6	NULL	NULL	NULL	1537.8	0.000251	1911.6	38.03	0.0144	2219.38	31.521	0.33	NULL	NULL	NULL	2352.23	38.68	0.205
K15-250	56.6	1471.52	18.063	0.0004	1560.06	0.000505	1907.03	36.312	0.0129	2219.19	31.376	0.334	NULL	NULL	NULL	2352.57	38.477	0.21
K15-250	61.6	1473.1	9.633	0.000503	1552.41	0.000419	1905.17	38.426	0.0129	2219.4	31.363	0.334	NULL	NULL	NULL	2351.01	38.459	0.21
K15-250	61.6	NULL	NULL	NULL	1557.01	0.000568	1918.57	39.234	0.00578	2213.5	33.186	0.332	NULL	NULL	NULL	2349.83	37.847	0.199
K15-250	61.6	1483.78	15.595	0.000178	1558.8	0.00052	1919.21	34.049	0.00383	2213.86	33.286	0.343	NULL	NULL	NULL	2352.44	37.766	0.199
K15-250	66.6	1483.44	12.583	0.000252	1559.92	0.000737	1914.65	32.265	0.00294	2214	33.342	0.346	NULL	NULL	NULL	2349.83	37.376	0.201
K15-250	66.6	1479.85	10.495	0.000267	1551.71	0.000666	1957.08	32.104	0.00322	2220.87	28.163	0.049	2244.06	16.488	0.0447	2324.15	23	0.034
K15-250	66.6	1478.64	13.052	0.00044	1558.32	0.000685	1949.52	31.256	0.00631	2210.08	35.525	0.0516	2244.03	18.516	0.0486	2324.07	41.098	0.0367
K15-250	71.6	1491.82	19.12	0.000498	1544.37	0.000775	1954.61	23.8	0.00595	2208.41	36.158	0.0557	2245.22	15.186	0.0529	2324.46	31.95	0.0381
K15-250	71.6	NULL	NULL	NULL	1553.62	0.000622	1917.66	35.903	0.0152	2211.51	33.509	0.19	NULL	NULL	NULL	2348.02	37.321	0.107
K15-250	71.6	1493.81	12.366	0.000179	1548.3	0.000798	1911.81	35.274	0.0135	2211.33	33.342	0.197	NULL	NULL	NULL	2346.74	38.109	0.106
K15-250	76.7	1497.19	11.77	0.000395	1557.15	0.000705	1919.43	35.633	0.0136	2211.69	33.388	0.179	NULL	NULL	NULL	2345.93	38.281	0.0999

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-250	76.7	NULL	NULL	NULL	NULL	NULL	1928.97	46.676	0.0865	2217.13	27.837	0.0255	NULL	NULL	NULL	2336.28	33.199	0.11
K15-250	76.7	1470.32	16.565	0.0328	NULL	NULL	1923	44.318	0.0847	2218.96	29.867	0.0319	NULL	NULL	NULL	2336.38	32.819	0.128
K15-250	81.6	NULL	NULL	NULL	NULL	NULL	1922.91	43.723	0.0855	2217.9	27.884	0.0226	NULL	NULL	NULL	2333.93	33.782	0.104
K15-250	81.6	NULL	NULL	NULL	1556.36	0.0136	1958.14	26.367	0.0351	2218.22	32.324	0.15	2251.13	19.182	0.166	2341.65	36.305	0.167
K15-250	81.6	NULL	NULL	NULL	1559.59	0.0122	NULL	NULL	NULL	2218.44	32.18	0.151	2251.14	18.94	0.166	2341.39	38.075	0.165
K15-250	86.6	1470.7	12.915	0.00601	1557.78	0.0137	NULL	NULL	NULL	2220.31	32.583	0.153	2250.92	18.487	0.17	2343.04	35.657	0.175
K15-250	86.6	NULL	NULL	NULL	1552.5	0.0207	NULL	NULL	NULL	NULL	NULL	NULL	2252.93	20.389	0.187	2341.27	35.837	0.237
K15-250	86.6	1472.68	12.443	0.00857	1557.02	0.018	1959.98	25.195	0.046	NULL	NULL	NULL	2253.59	19.947	0.187	2338.79	36.588	0.23
K15-250	91.6	NULL	NULL	NULL	1557.3	0.0187	1958.26	26.016	0.046	NULL	NULL	NULL	2252.82	20.005	0.189	2337.08	35.188	0.239
K15-250	91.6	NULL	NULL	NULL	1553.43	0.0467	1913.84	41.696	0.145	NULL	NULL	NULL	2251.05	18.148	0.245	2338.34	33.895	0.231
K15-250	91.6	NULL	NULL	NULL	1555.92	0.0521	1959.91	46.671	0.154	NULL	NULL	NULL	2250.28	18.198	0.26	2339.52	33.704	0.242
K15-250	96.6	NULL	NULL	NULL	1555.32	0.0512	NULL	NULL	NULL	NULL	NULL	NULL	2250.52	18.819	0.256	2331.37	35.599	0.235
K15-250	96.6	NULL	NULL	NULL	1555.37	0.0131	1907.53	28.683	0.117	NULL	NULL	NULL	2253.81	20.221	0.124	2324.16	42.264	0.258
K15-250	96.6	NULL	NULL	NULL	1557.95	0.0118	1909.19	30.13	0.112	NULL	NULL	NULL	2252.58	20.003	0.121	2323.76	40.948	0.242
K15-250	119.5	1471.3	11.71	0.00211	1552.95	0.0119	1909.45	30.094	0.111	NULL	NULL	NULL	2253.02	19.986	0.125	2324.61	40.517	0.246
K15-250	119.5	NULL	NULL	NULL	1550.86	0.027	1907.88	30.835	0.258	NULL	NULL	NULL	2253.61	19.457	0.153	2337.08	38.388	0.306
K15-250	119.5	NULL	NULL	NULL	1550.59	0.0321	1909.34	31.955	0.257	NULL	NULL	NULL	2253.74	19.264	0.165	2337.74	38.209	0.315
K15-250	124.5	NULL	NULL	NULL	1552.17	0.0296	1909.8	32.129	0.258	NULL	NULL	NULL	2253.87	19.279	0.15	2335.48	37.367	0.3
K15-250	124.5	NULL	NULL	NULL	1556.08	0.029	1907.14	23.493	0.0603	NULL	NULL	NULL	2252.68	20.418	0.203	2329.28	40.542	0.314
K15-250	124.5	NULL	NULL	NULL	1556.71	0.0377	1910.67	25.95	0.0656	NULL	NULL	NULL	2253.42	20.242	0.225	2332.11	39.277	0.342
K15-250	129.5	NULL	NULL	NULL	1558.14	0.0268	1911.07	26.004	0.0574	NULL	NULL	NULL	2253.23	20.006	0.188	2323.85	40.927	0.29
K15-250	129.5	1473.9	15.033	0.00687	1559.12	0.018	1909.53	22.867	0.0698	NULL	NULL	NULL	2252.32	17.746	0.163	2336.18	38.39	0.201
K15-250	129.5	NULL	NULL	NULL	1552.95	0.0208	1910.72	24.893	0.0737	NULL	NULL	NULL	2252.47	17.34	0.177	2341.03	36.975	0.219
K15-250	134.5	NULL	NULL	NULL	1553.43	0.0233	1908.86	24.679	0.0752	NULL	NULL	NULL	2251.9	17.995	0.174	2337.83	36.954	0.22
K15-250	134.5	NULL	NULL	NULL	1550.51	0.0265	1910.71	28.306	0.107	NULL	NULL	NULL	2253.64	20.099	0.181	2336.9	38.399	0.315
K15-250	134.5	NULL	NULL	NULL	1550.77	0.0271	1910.09	27.754	0.103	NULL	NULL	NULL	2253.82	19.811	0.178	2336.41	38.913	0.315
K15-250	139.5	NULL	NULL	NULL	1551.01	0.0254	1909.54	28.389	0.102	NULL	NULL	NULL	2254.23	19.935	0.184	2334.59	39.276	0.309
K15-250	139.5	NULL	NULL	NULL	1554.22	0.0332	1910.73	30.471	0.199	NULL	NULL	NULL	2253.04	18.88	0.19	2337.71	38.005	0.307
K15-250	139.5	NULL	NULL	NULL	1553.48	0.0312	1910.44	30.1	0.196	NULL	NULL	NULL	2253.02	18.657	0.186	2338.35	38.234	0.293
K15-250	144.5	NULL	NULL	NULL	1552.86	0.0379	1910.31	29.883	0.202	NULL	NULL	NULL	2253.23	18.999	0.205	2340.87	37.967	0.339
K15-250	144.5	NULL	NULL	NULL	1552.54	0.0318	1909.8	27.11	0.211	NULL	NULL	NULL	2252.83	19.291	0.242	2333.43	38.213	0.341
K15-250	144.5	NULL	NULL	NULL	1551.47	0.034	1909.69	26.583	0.197	NULL	NULL	NULL	2252.69	19.179	0.249	2338.57	37.349	0.348
K15-250	149.5	NULL	NULL	NULL	1552.28	0.0334	1908.67	26.143	0.2	NULL	NULL	NULL	2253	19.381	0.245	2334.05	38.151	0.345
K15-250	149.5	NULL	NULL	NULL	1554.58	0.0148	1956.69	37.706	0.0672	NULL	NULL	NULL	2253.23	20.364	0.169	2337.45	32.357	0.204
K15-250	149.5	NULL	NULL	NULL	1542.22	0.0163	NULL	NULL	NULL	NULL	NULL	NULL	2254.06	20.603	0.169	2340.15	32.019	0.209
K15-250	154.5	NULL	NULL	NULL	1556.7	0.0153	1958.5	38.95	0.0636	NULL	NULL	NULL	2252.77	20.055	0.169	2339.55	32.656	0.201
K15-250	154.5	NULL	NULL	NULL	1563.57	0.019	1909.5	30.636	0.0747	NULL	NULL	NULL	2252.68	19.328	0.202	2340.33	36.292	0.204

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-250	154.5	NULL	NULL	NULL	1550.79	0.0184	1909.84	35.637	0.0698	NULL	NULL	NULL	2253.13	19.618	0.191	2342.16	35.226	0.198
K15-250	157.6	1471.96	10.611	0.0152	1550.72	0.0199	1910.11	31.07	0.0719	NULL	NULL	NULL	2252.82	18.848	0.202	2344.57	35.683	0.202
K15-250	157.6	1499.01	14.183	0.000637	1556.56	0.00171	1947.74	25.099	0.0036	2212.01	30.597	0.0543	2243.68	16.963	0.0517	2323.55	29.169	0.0392
K15-250	157.6	NULL	NULL	NULL	1564.86	0.00129	1940.84	32.565	0.00399	2227.19	33.111	0.049	2245.29	16.754	0.047	2332.46	28.076	0.0403
K15-250	160.5	1498.45	11.744	0.000344	1566.76	0.000642	1954.55	32.969	0.00506	2228.05	35.128	0.0533	2251.27	18.957	0.052	2325.68	37.366	0.0402
K15-250	160.5	1488.92	13.172	0.000632	1560.49	0.000492	1946.31	34.165	0.00619	2214.28	33.046	0.0273	2241.85	11.084	0.0265	2326.88	24.31	0.0256
K15-250	160.5	1476.11	14.712	0.0006	1545.06	0.000496	1956.8	35.249	0.00783	2224.69	28.018	0.0291	2242.86	16.599	0.0281	2329.55	27.33	0.0242
K15-250	163.5	1494.57	10.35	0.00058	1563.9	0.000543	1949.39	34.252	0.00881	2211.58	39.214	0.0191	2242.56	16.024	0.0183	2328.11	32.35	0.0166
K15-250	163.5	NULL	NULL	NULL	1559.96	0.00212	1953.12	28.19	0.00314	2210.56	29.287	0.0338	2243.61	14.976	0.0315	2326.57	34.739	0.0212
K15-250	163.5	1481.35	14.639	0.000363	1543.09	0.000691	1959.64	25.826	0.00788	2228.37	25.384	0.0307	2241.86	19.496	0.0297	2330.48	25.878	0.0254
K15-250	169.5	1477.04	10.926	0.000595	1566.8	0.000788	1950.67	35.204	0.00944	2219.61	29.263	0.0324	2253.31	17.249	0.0322	2324.18	30.217	0.0238
K15-250	169.5	1491.57	15.701	0.000495	1564.92	0.00191	1949.87	24.499	0.0049	2222.86	32.187	0.0686	2241.65	19.517	0.0638	2321.24	34.556	0.048
K15-250	169.5	1479.4	12.757	0.000766	1549.27	0.000784	1957.39	28.387	0.00663	2221.19	28.2	0.0622	2242.43	14.954	0.0599	2324.7	34.687	0.0443
K15-250	171.5	1499.35	14.607	0.000353	NULL	NULL	1959.77	26.607	0.00883	2218.58	37.256	0.0635	2243.39	19.666	0.06	2318.96	34.515	0.0485
K15-250	171.5	1474.73	17.802	0.000394	1546.44	0.000729	1945.6	24.231	0.00273	2217.95	26.2	0.0307	NULL	NULL	NULL	2329.39	30.665	0.0222
K15-250	171.5	1479.73	15.743	0.000361	1565.38	0.000836	1949.87	26.204	0.00627	2225.51	31.146	0.0299	2245.83	11.893	0.0285	2344.82	33.635	0.0237
K15-250	179.5	1476.88	15.93	0.000276	1553.81	0.000659	NULL	NULL	NULL	2211.91	29.51	0.0243	2253.59	14.476	0.0215	NULL	NULL	NULL
K15-250	179.5	1480.56	10.941	0.000661	1555.5	0.000682	1936.53	33.07	0.0105	2228.58	32.021	0.0318	2241.55	18.243	0.03	2326	33.645	0.0222
K15-250	179.5	1486.12	12.098	0.000548	1551.67	0.000863	1954.64	41.556	0.0138	2221.47	29.25	0.0305	2242.43	10.402	0.0272	2329.33	35.336	0.0158
K15-250	182.5	1480.35	12.82	0.000615	NULL	NULL	1949.42	35.599	0.0135	NULL	NULL	NULL	2254.99	13.438	0.0272	2338.48	27.272	0.0189
K15-250	182.5	1492.45	18.62	0.000528	NULL	NULL	NULL	NULL	NULL	2227.08	34.337	0.0353	2250.88	15.737	0.0389	2324.49	25.613	0.0372
K15-250	182.5	1480.31	18.031	0.000448	1565.36	0.000371	1928.47	33.576	0.00417	2213.1	31.275	0.0349	2248.27	16.475	0.0365	2325.43	29.949	0.0371
K15-250	185.5	1474.32	13.592	0.000506	1550.52	0.000437	1953.57	35.923	0.00852	2228.68	25.063	0.0294	2247.13	12.892	0.0263	2328.84	34.292	0.0282
K15-250	185.5	NULL	NULL	NULL	1549.83	0.000687	1909.68	32.061	0.0876	2211.56	34.208	0.244	NULL	NULL	NULL	2348.03	38.629	0.141
K15-250	185.5	NULL	NULL	NULL	1555.09	0.000587	1909.57	31.926	0.0981	2211.45	33.957	0.236	NULL	NULL	NULL	2347.93	38.105	0.143
K15-250	188.5	NULL	NULL	NULL	1542.77	0.000728	1909.78	31.302	0.0977	2211.57	33.818	0.219	NULL	NULL	NULL	2348.43	38.008	0.129
K15-250	188.5	1472.65	15.497	0.00174	1558.56	0.0004	1913.13	32.118	0.0186	2204.7	31.819	0.207	NULL	NULL	NULL	2343.47	38.744	0.1
K15-250	188.5	1470.08	12.028	0.00355	1544.09	0.000531	1911.23	30.095	0.0218	2203.53	31.071	0.212	NULL	NULL	NULL	2346.71	37.608	0.114
K15-250	191.5	NULL	NULL	NULL	1550.9	0.000559	1910.78	28.204	0.0264	2204.99	31.595	0.195	NULL	NULL	NULL	2350.95	37.858	0.0954
K15-250	191.5	NULL	NULL	NULL	1560.2	0.00248	1912.37	32.163	0.0597	2206.16	34.003	0.0968	2250.08	19.732	0.0666	2340.73	38.925	0.0735
K15-250	191.5	NULL	NULL	NULL	1549.3	0.00355	1912.95	32.609	0.0524	2205.55	32.53	0.0952	2249.06	19.853	0.0604	2347.16	37.811	0.073
K15-250	194.5	NULL	NULL	NULL	1542.03	0.00254	1913.47	29.492	0.0412	2205.8	32.277	0.0847	2250.32	19.43	0.0535	2342.48	37.3	0.0656
K15-250	194.5	NULL	NULL	NULL	1541.27	0.000398	1943.36	25.953	0.00642	2226.9	36.449	0.0337	NULL	NULL	NULL	2330.32	32.733	0.0268
K15-250	194.5	1479.8	11.908	0.000518	1568.74	0.000869	1943.38	35.984	0.00836	2216.9	28.556	0.0316	2245.36	13.254	0.0328	2334.94	26.333	0.026
K15-250	197.5	1472.47	25.414	0.00022	1556.65	0.00055	1942.28	32.504	0.00553	2218.35	33.44	0.0318	2246.18	14.93	0.0345	2319.36	35.02	0.0236
K15-250	197.5	NULL	NULL	NULL	1548.44	0.00056	1907.7	36.445	0.0232	2209.4	33.159	0.212	NULL	NULL	NULL	2349.37	37.347	0.114
K15-250	197.5	NULL	NULL	NULL	1547.07	0.000616	1916.93	38.23	0.0254	2210.14	33.267	0.212	NULL	NULL	NULL	2349.54	36.808	0.119

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-250	200.5	1470.59	9.976	0.00127	1553.66	0.000654	1914.89	35.445	0.0253	2209.98	33.184	0.207	NULL	NULL	NULL	2349.41	36.76	0.116
K15-250	200.5	NULL	NULL	NULL	1546.21	0.00383	1905.91	29.499	0.0175	2207.59	33.018	0.31	NULL	NULL	NULL	2348.05	38.396	0.17
K15-250	200.5	NULL	NULL	NULL	1549.03	0.00391	1910.26	29.52	0.0231	2207.17	32.832	0.311	NULL	NULL	NULL	2347.91	37.809	0.178
K15-250	203.5	NULL	NULL	NULL	1542.6	0.00383	1909.13	31.059	0.0213	2206.24	32.793	0.306	NULL	NULL	NULL	2348.84	37.685	0.175
K15-250	203.5	NULL	NULL	NULL	1555.03	0.00139	1912.44	30.559	0.0301	2208.66	33.31	0.219	NULL	NULL	NULL	2345.22	38.236	0.114
K15-250	203.5	1473.67	14.397	0.00263	1550.73	0.000599	1908.48	32.555	0.0274	2207.37	33.224	0.228	NULL	NULL	NULL	2346.55	37.591	0.122
K15-250	208.5	NULL	NULL	NULL	1557	0.000939	1911.28	30.611	0.0246	2207.56	33.107	0.232	NULL	NULL	NULL	2346.74	37.39	0.126
K15-250	208.5	1471.23	10.733	0.000675	1559.75	0.00135	1938.28	40.538	0.0148	2207.36	33.389	0.229	NULL	NULL	NULL	2345.81	38.265	0.127
K15-250	208.5	1472.24	14.14	0.000545	1553.01	0.00138	1948.6	40.031	0.0165	2207.59	32.754	0.216	NULL	NULL	NULL	2351.06	38.216	0.129
K15-250	213.5	NULL	NULL	NULL	1540.99	0.00103	1944.15	38.533	0.0192	2206.82	32.991	0.227	2243.5	16.876	0.0861	2345.68	37.447	0.126
K15-250	213.5	NULL	NULL	NULL	1556.34	0.00156	1916.9	45.325	0.0351	2207.61	33.787	0.233	NULL	NULL	NULL	2346.4	37.792	0.135
K15-250	213.5	1473.04	13.137	0.0022	1549.5	0.00149	1920.16	46.453	0.0367	2207.57	33.674	0.241	NULL	NULL	NULL	2344.08	38.182	0.139
K15-250	218.5	NULL	NULL	NULL	1545.99	0.00169	1937.93	43.923	0.032	2207.95	33.766	0.295	NULL	NULL	NULL	2349.43	38.843	0.172
K15-250	218.5	NULL	NULL	NULL	1552.92	0.000871	1937.49	38.88	0.0213	2205.61	32.526	0.195	NULL	NULL	NULL	2346.29	37.295	0.109
K15-250	218.5	NULL	NULL	NULL	1541.56	0.00129	1944.56	38.38	0.0248	2205.48	32.336	0.194	2243.8	15.806	0.0623	2346.07	38.073	0.106
K15-250	223.5	NULL	NULL	NULL	1541.58	0.000811	1945.7	41.099	0.0254	2205.47	32.65	0.193	NULL	NULL	NULL	2348.43	37.379	0.106
K15-250	223.5	1473.46	15.144	0.000765	1544.52	0.000855	1913.1	35.277	0.0174	2205.49	32.481	0.159	NULL	NULL	NULL	2344.92	39.004	0.0822
K15-250	223.5	NULL	NULL	NULL	1544.31	0.00105	1914.24	31.741	0.0208	2206.44	32.555	0.161	2243.51	15.995	0.0568	2343.2	39.699	0.0903
K15-250	228.5	1472.75	15.532	0.00161	1550.95	0.000762	1910.92	30.691	0.0201	2206.13	32.472	0.153	NULL	NULL	NULL	2350.87	38.961	0.0821
K15-250	228.5	1472	22.147	0.000212	1547.34	0.00144	1910.04	32.998	0.0207	2205.09	32.599	0.252	NULL	NULL	NULL	2348.15	38.41	0.14
K15-250	228.5	NULL	NULL	NULL	1546.59	0.00102	1912.01	32.386	0.0219	2204.6	32.107	0.253	NULL	NULL	NULL	2346.71	37.95	0.146
K15-250	233.5	NULL	NULL	NULL	NULL	NULL	1909.97	29.527	0.0223	2203.8	32.298	0.263	NULL	NULL	NULL	2344.6	39.011	0.146
K15-250	233.5	1473.34	13.286	0.00292	1558.81	0.000851	1908.02	31.603	0.0711	2203.44	31.336	0.254	NULL	NULL	NULL	2344.58	37.676	0.132
K15-250	233.5	NULL	NULL	NULL	1552.83	0.000881	1909.83	32.817	0.0577	2204.17	30.935	0.242	NULL	NULL	NULL	2344.48	38.222	0.129
K15-250	238.5	NULL	NULL	NULL	1553.85	0.000502	1910.13	31.675	0.0569	2204	31.467	0.242	NULL	NULL	NULL	2348.15	37.962	0.135
K15-250	238.5	NULL	NULL	NULL	1545.9	0.000632	1913.26	34.315	0.0294	2205.81	32.965	0.154	NULL	NULL	NULL	2346.57	39.137	0.0913
K15-250	238.5	NULL	NULL	NULL	1555.54	0.000433	1912.54	35.222	0.0322	2206.13	33.174	0.152	NULL	NULL	NULL	2342.91	39.243	0.0929
K15-250	243.5	NULL	NULL	NULL	1554.74	0.0012	1914.64	32.181	0.0324	2205.89	33.327	0.149	NULL	NULL	NULL	2345.94	39.017	0.093
K15-250	243.5	NULL	NULL	NULL	NULL	NULL	1910.06	32.927	0.0955	2205.72	32.26	0.283	NULL	NULL	NULL	2345.25	40.104	0.149
K15-250	243.5	NULL	NULL	NULL	NULL	NULL	1909.66	32.197	0.111	2204.79	31.661	0.26	NULL	NULL	NULL	2343.39	39.267	0.142
K15-250	248.5	NULL	NULL	NULL	NULL	NULL	1910	32.135	0.0971	2204.54	32.212	0.28	NULL	NULL	NULL	2344.76	38.819	0.152
K15-250	248.5	NULL	NULL	NULL	1539.08	0.0013	1918.19	38.348	0.0153	2206.77	32.857	0.314	NULL	NULL	NULL	2346.35	38.265	0.179
K15-250	248.5	NULL	NULL	NULL	1543.5	0.00115	1917.13	36.859	0.0179	2206.32	32.87	0.312	NULL	NULL	NULL	2346.53	38.529	0.178
K15-265	24.7	NULL	NULL	NULL	1544.93	0.00106	1924.15	35.595	0.019	2207.12	32.745	0.313	NULL	NULL	NULL	2347.5	37.673	0.18
K15-265	24.7	NULL	NULL	NULL	NULL	NULL	1911.3	34.263	0.0749	2206.97	32.946	0.283	NULL	NULL	NULL	2346.2	38.998	0.152
K15-265	24.7	NULL	NULL	NULL	NULL	NULL	1910.23	33.341	0.0789	2206.41	33.108	0.285	NULL	NULL	NULL	2345.57	39.127	0.159
K15-265	29.7	NULL	NULL	NULL	1543.59	0.00331	1910.21	32.688	0.0607	2207.84	33.082	0.294	NULL	NULL	NULL	2350.58	38.683	0.162

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-265	29.7	NULL	NULL	NULL	1539.86	0.00431	1940.94	40.526	0.027	2208.74	33.775	0.274	NULL	NULL	NULL	2349.82	39.271	0.151
K15-265	29.7	NULL	NULL	NULL	1543.06	0.00464	1940.6	39.956	0.0311	2208.89	33.68	0.278	NULL	NULL	NULL	2345.34	39.078	0.154
K15-265	34.7	NULL	NULL	NULL	1540.36	0.00505	1940.16	40.646	0.0309	2209.15	34.011	0.276	NULL	NULL	NULL	2348.68	39.289	0.153
K15-265	34.7	NULL	NULL	NULL	1549.96	0.00141	1940.85	37.212	0.0599	2208.01	33.545	0.269	NULL	NULL	NULL	2346.61	37.959	0.152
K15-265	34.7	NULL	NULL	NULL	1543.58	0.00156	1941.22	37.615	0.0651	2207.7	33.536	0.277	NULL	NULL	NULL	2347.84	37.767	0.159
K15-265	39.7	NULL	NULL	NULL	1539.08	0.00179	1942.91	37.283	0.0653	2207.99	33.538	0.275	NULL	NULL	NULL	2348.28	37.803	0.154
K15-265	39.7	1473.64	13.917	0.000691	NULL	NULL	1901.89	40.452	0.00102	NULL	NULL	NULL	2241.88	17.366	0.000802	NULL	NULL	NULL
K15-265	39.7	1472.05	16.671	0.00231	1554.28	0.000604	1941.87	37.53	0.0361	2210.34	32.388	0.124	2243.65	15.748	0.0458	2349.72	35.923	0.0588
K15-265	44.7	NULL	NULL	NULL	1538.56	0.00186	1911.91	34.233	0.109	2211.33	32.025	0.121	NULL	NULL	NULL	2347.29	38.299	0.0774
K15-265	44.7	1473.71	15.159	0.00612	1557.17	0.00963	1911.28	33.892	0.0611	2218.16	31.326	0.145	2248.94	20.362	0.114	2341.97	39.868	0.19
K15-265	44.7	1499.79	13.418	0.00473	1560.97	0.0189	1909.89	27.949	0.0414	2221.69	29.921	0.108	2251.8	17.77	0.143	2333.65	40.274	0.204
K15-265	49.7	NULL	NULL	NULL	1558.37	0.0235	1953.96	37.362	0.0406	NULL	NULL	NULL	2252.85	18.092	0.158	2342.63	39.647	0.229
K15-265	49.7	NULL	NULL	NULL	1558.05	0.0582	1956.2	28.589	0.0646	NULL	NULL	NULL	2254.05	20.057	0.244	2341.12	40.636	0.345
K15-265	49.7	NULL	NULL	NULL	1557.23	0.0386	1956.61	24.633	0.0397	NULL	NULL	NULL	2252.87	19.343	0.203	2340.74	41.902	0.282
K15-265	54.7	NULL	NULL	NULL	1556.6	0.0262	1959.61	31.788	0.0422	NULL	NULL	NULL	2253.55	19.958	0.172	2340.34	37.65	0.25
K15-265	54.7	1473.7	14.233	0.0107	1557.4	0.0361	1959.58	21.262	0.0535	NULL	NULL	NULL	2252.79	18.466	0.23	2344.79	38.938	0.272
K15-265	54.7	1473.92	17.581	0.000467	1544.55	0.000937	1914.82	36.696	0.0181	2222.93	29.411	0.0935	2248.25	19.17	0.114	2333.21	39.587	0.147
K15-265	59.8	NULL	NULL	NULL	1560.43	0.000804	1914.21	37.173	0.0226	2218.97	31.216	0.238	NULL	NULL	NULL	2349.22	38.679	0.147
K15-265	59.8	1470.46	8.802	0.00149	1555.6	0.000333	1910.54	35.162	0.0347	2217.59	32.631	0.29	NULL	NULL	NULL	2349.41	39.335	0.185
K15-265	59.8	1472.3	12.519	0.000563	1566.89	0.000479	1912.52	37.071	0.021	2216.5	32.703	0.267	NULL	NULL	NULL	2345.73	39.37	0.161
K15-265	64.7	NULL	NULL	NULL	1555.19	0.000519	1909.6	31.245	0.111	2197.77	32.3	0.382	NULL	NULL	NULL	2343.44	40.507	0.188
K15-265	64.7	1473.14	14.225	0.000765	NULL	NULL	1927.13	25.326	0.00119	NULL	NULL	NULL	2243.4	24.307	0.000382	2348.2	33.327	0.00736
K15-265	64.7	1472.79	13.931	0.00146	1546.02	0.000617	1918.38	34.795	0.00909	2222.85	26.688	0.1	2246.51	19.305	0.0914	2337.75	41.801	0.127
K15-265	69.7	1471.32	9.786	0.00127	1554.64	0.00126	1915.21	43.386	0.0208	2212.67	32.845	0.181	NULL	NULL	NULL	2350.08	37.112	0.128
K15-265	69.7	NULL	NULL	NULL	1552.63	0.0119	1910.8	25.49	0.0388	2223.51	29.264	0.16	2250.19	19.459	0.192	2341.6	39.886	0.247
K15-265	69.7	NULL	NULL	NULL	1547.46	0.00833	1951.75	39.118	0.0279	NULL	NULL	NULL	2250.67	17.212	0.149	2329.03	38.359	0.18
K15-265	74.7	NULL	NULL	NULL	1554.35	0.0202	NULL	NULL	NULL	NULL	NULL	NULL	2252.29	19.201	0.206	2342.95	35.357	0.222
K15-265	74.7	NULL	NULL	NULL	1546.52	0.0231	1958.14	24.513	0.0291	2214.05	34.036	0.236	2247.5	20.497	0.15	2343.33	39.238	0.17
K15-265	74.7	NULL	NULL	NULL	1553.37	0.0113	1956.27	22.575	0.0301	NULL	NULL	NULL	2256	20.232	0.228	2347.45	34.527	0.226
K15-265	79.7	NULL	NULL	NULL	1548.52	0.0181	1954.17	22.971	0.0108	2210.44	34.59	0.262	2248.02	20.858	0.137	2347.47	36.933	0.181
K15-265	79.7	1472.91	17.868	0.000787	1545.16	0.0026	1920.3	34.079	0.00517	2208.09	32.054	0.271	NULL	NULL	NULL	2348.31	35.805	0.154
K15-265	79.7	NULL	NULL	NULL	1545.91	0.00377	1948.72	34.03	0.0143	2209.05	31.638	0.0762	2250.67	18.981	0.0443	2341.89	33.893	0.0548
K15-265	84.7	NULL	NULL	NULL	1546.27	0.00251	1948.53	31.112	0.00911	2208.06	29.184	0.0867	2250.11	16.555	0.0324	2348.71	35.627	0.0508
K15-265	84.7	NULL	NULL	NULL	1547.01	0.0276	1956.33	23.598	0.0355	2209.61	34.577	0.182	2250.24	18.639	0.148	2342.21	36.569	0.163
K15-265	84.7	NULL	NULL	NULL	1548.28	0.0217	NULL	NULL	NULL	NULL	NULL	NULL	2253.98	19.213	0.217	2340.12	34.25	0.198
K15-265	89.8	NULL	NULL	NULL	1547.59	0.0128	1956.57	22.451	0.0119	NULL	NULL	NULL	2252.92	19.13	0.142	2344.26	31.763	0.136
K15-265	89.8	NULL	NULL	NULL	1546.83	0.0125	1957.07	20.028	0.0197	2209.29	34.676	0.261	2250.03	20.995	0.145	2349.16	36.495	0.194

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-265	89.8	NULL	NULL	NULL	1537.1	0.00751	NULL	NULL	NULL	2210.51	34.312	0.167	2252.77	19.208	0.108	2337.89	39.325	0.141
K15-265	94.8	1472.27	17.596	0.000717	1548.88	0.00036	1906.15	28.881	0.000916	NULL	NULL	NULL	2253.92	15.916	0.000852	2357.14	36.703	0.00752
K15-265	94.8	NULL	NULL	NULL	1547.66	0.00318	1912.02	34.063	0.0492	2210.87	34.624	0.32	NULL	NULL	NULL	2348.45	40.402	0.181
K15-265	94.8	NULL	NULL	NULL	1550.37	0.0288	NULL	NULL	NULL	2212.79	33.943	0.264	2246.07	18.903	0.174	2345.55	38.641	0.196
K15-265	99.7	NULL	NULL	NULL	1549.11	0.0266	NULL	NULL	NULL	2213.03	34.55	0.277	2242.81	18.413	0.161	2344.46	40.204	0.18
K15-265	99.7	NULL	NULL	NULL	1546.63	0.00396	1909.89	29.797	0.0869	2212.45	33.961	0.25	NULL	NULL	NULL	2345.09	39.938	0.137
K15-265	99.7	1473.21	17.582	0.00589	1540.09	0.00145	1927.76	47.095	0.0303	2212.49	34.732	0.233	NULL	NULL	NULL	2347.37	40.108	0.133
K15-265	104.7	NULL	NULL	NULL	1555.37	0.0417	1959.83	20.645	0.0567	2216.49	33.784	0.231	2248.41	19.978	0.212	2340.05	37.791	0.202
K15-265	104.7	NULL	NULL	NULL	1555.98	0.0213	1959.66	22.69	0.0465	NULL	NULL	NULL	2251.82	17.029	0.167	2337.49	31.883	0.154
K15-265	104.7	NULL	NULL	NULL	1549.81	0.0256	NULL	NULL	NULL	2213.05	34.593	0.266	NULL	NULL	NULL	2345.69	40.227	0.173
K15-265	109.7	NULL	NULL	NULL	1550.73	0.0405	1956.48	26.041	0.0566	2213.75	34.639	0.262	2246.88	19.447	0.183	2346.74	39.382	0.188
K15-265	109.7	NULL	NULL	NULL	1549.55	0.0482	NULL	NULL	NULL	NULL	NULL	NULL	2251.75	17.559	0.274	2339.53	33.071	0.232
K15-265	109.7	1472.75	11.079	0.00133	1561.04	0.00676	1959.77	22.294	0.0245	NULL	NULL	NULL	2254.22	18.162	0.163	2350.79	37.027	0.159
K15-265	114.6	NULL	NULL	NULL	1565.17	0.00294	1954.82	24.184	0.0199	2227.89	30.441	0.0612	2254.75	17.867	0.114	2346.84	39.869	0.11
K15-265	114.6	NULL	NULL	NULL	1548.99	0.00279	1913.92	35.769	0.0199	2218.56	31.486	0.191	NULL	NULL	NULL	2343.59	38.647	0.138
K15-265	114.6	1472.47	15.813	0.00109	1565.26	0.00452	1958.01	29.829	0.021	2219.22	31.524	0.141	2248.51	20.794	0.114	2344.08	38.011	0.114
K15-265	119.7	1476.88	11.668	0.000798	1556.64	0.00128	1957.57	31.388	0.0158	2218.08	30.682	0.0738	2249.25	20.009	0.0715	2340.78	39.515	0.0751
K15-265	119.7	NULL	NULL	NULL	1540.33	0.00339	1911.75	34.526	0.0473	2218.06	32.735	0.274	NULL	NULL	NULL	2347.71	40.985	0.163
K15-265	119.7	1475.94	16.339	0.000373	1565.54	0.000822	1919.33	34.803	0.0137	2218.77	33.022	0.222	NULL	NULL	NULL	2353.44	39.195	0.14
K15-265	124.7	1483.26	13.016	0.000579	1567.24	0.000988	1940.01	36.721	0.0093	2218.75	30.809	0.201	NULL	NULL	NULL	2355.4	37.609	0.126
K15-265	124.7	1479.12	15.329	0.000357	1564.89	0.000469	1941.24	37.367	0.0107	2219.53	28.595	0.109	NULL	NULL	NULL	2353.76	37.016	0.0689
K15-265	124.7	1475.73	16.764	0.00101	1547.33	0.00175	1914.61	39.919	0.0199	2219.88	31.806	0.206	2243.41	19.588	0.132	2344.04	40.029	0.127
K15-265	129.7	NULL	NULL	NULL	1565.38	0.000336	1940.62	42.142	0.0465	2219.92	30.647	0.316	NULL	NULL	NULL	2351.63	38.739	0.2
K15-265	129.7	1475.99	12.449	0.000868	1553.43	0.000821	1919.55	35.197	0.0321	2221.98	28.023	0.161	2245.37	21.373	0.112	2342.87	40.96	0.13
K15-265	129.7	1481.54	18.339	0.000615	1563.24	0.000506	1910.55	34.931	0.0174	2221.67	30.941	0.259	NULL	NULL	NULL	2356.61	40.438	0.156
K15-265	134.7	NULL	NULL	NULL	1547.33	0.00124	1916.26	37.466	0.0414	2220.58	31.804	0.139	2242.21	21.071	0.0987	2343.51	41.271	0.105
K15-265	134.7	1472.22	13.409	0.000749	1542.93	0.000322	1919.04	27.462	0.00133	NULL	NULL	NULL	2240.1	11.192	0.000536	2358.92	34.467	0.00679
K15-265	134.7	1473.53	NULL	NULL	1562.83	0.000637	1928.31	43.614	0.0111	2221.98	26.871	0.141	2248.53	19.514	0.0968	2349.63	38.368	0.114
K15-265	137.7	1473.79	11.813	0.000862	1554.39	0.000616	1911.16	34.223	0.0166	2219.47	31.99	0.332	NULL	NULL	NULL	2347.86	39.678	0.214
K15-265	137.7	NULL	NULL	NULL	1567.46	0.00114	1919.2	34.891	0.0142	2218.63	31.203	0.184	NULL	NULL	NULL	2356.38	38.029	0.121
K15-265	137.7	NULL	NULL	NULL	1564.93	0.00229	1916.29	35.996	0.0131	2218.18	31.406	0.135	2251.24	21.429	0.0924	2352.92	38.329	0.108
K15-265	140.7	NULL	NULL	NULL	1564.42	0.00104	1934.72	36.052	0.00774	2217.71	31.536	0.124	2252.2	21.27	0.0886	2350.52	38.897	0.104
K15-265	140.7	NULL	NULL	NULL	1549.99	0.00145	1919.23	30.029	0.0137	2216.15	33.183	0.146	2246.84	20.951	0.0909	2349.08	38.773	0.113
K15-265	140.7	1472.17	15.169	0.00101	1543.34	0.00107	1909.85	38.276	0.0118	2212.41	33.974	0.187	NULL	NULL	NULL	2351.83	37.534	0.126
K15-265	143.7	1470.3	13.752	0.0011	1552.18	0.00102	1955.82	42.506	0.0121	2207.61	33.404	0.122	2252.12	18.92	0.0706	2347.45	37.639	0.102
K15-265	143.7	1472.95	16.423	0.00042	1538.04	0.00095	1912.03	32.127	0.0128	2203.75	29.889	0.0766	2254.98	17.143	0.0512	2354.02	36.735	0.0707
K15-265	143.7	NULL	NULL	NULL	1563.18	0.000789	1916.63	41.107	0.0211	2202.67	31.031	0.222	NULL	NULL	NULL	2342.56	38.984	0.124

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-265	146.7	1476.26	13.537	0.00342	1563.91	0.00438	1949.58	45.441	0.0119	2201.73	30.758	0.117	2254.91	18.754	0.0638	2344.47	37.483	0.0898
K15-265	146.7	NULL	NULL	NULL	1550.04	0.0108	1949.07	43.266	0.0326	2208.09	20.368	0.0271	2258.52	20.162	0.128	2354.03	35.95	0.133
K15-265	146.7	1472.01	13.838	0.001	1561.48	0.000892	1937.29	44.354	0.0157	2202.19	29.35	0.0995	2254.46	16.441	0.0655	2350.91	36.644	0.0858
K15-265	149.7	NULL	NULL	NULL	1540.92	0.000313	1925.78	44.263	0.014	2204.26	31.608	0.186	NULL	NULL	NULL	2350.27	38.688	0.107
K15-265	149.7	NULL	NULL	NULL	1567.33	0.00062	1933.87	45.119	0.0176	2204.38	33.392	0.242	NULL	NULL	NULL	2347.87	38.645	0.142
K15-265	149.7	1471.76	14.651	0.000413	1557.13	0.000446	1929.42	39.664	0.0169	2211.54	34.648	0.24	NULL	NULL	NULL	2351.75	38.434	0.143
K15-265	152.7	NULL	NULL	NULL	1546.94	0.00082	1929.35	40.828	0.0104	2213.54	33.614	0.16	NULL	NULL	NULL	2350.84	37.717	0.0954
K15-265	152.7	1471.8	12.696	0.000829	1543.06	0.000368	1958.3	31.926	0.000693	NULL	NULL	NULL	2242.5	13.688	0.000868	2345.14	35.483	0.00644
K15-265	152.7	NULL	NULL	NULL	1543.14	0.00081	1916.62	26.726	0.00958	2214.93	33.558	0.173	NULL	NULL	NULL	2353.96	36.756	0.108
K15-265	155.7	1475.72	14.222	0.000229	1565.57	0.000475	1910.17	32.181	0.00939	2212.42	34.195	0.238	NULL	NULL	NULL	2352.52	39.021	0.139
K15-265	155.7	1473.65	13.679	0.000654	1568.99	0.000477	1914.17	37.218	0.0303	2210.7	35.831	0.325	NULL	NULL	NULL	2344.47	41.054	0.188
K15-265	155.7	1473.56	18.008	0.00108	1558.59	0.000831	1920.61	33.933	0.0199	2205.92	30.12	0.116	2252.14	20.884	0.0534	2349.34	39.541	0.0775
K15-265	158.7	1473.21	20.874	0.0058	1560.71	0.00568	1921.31	30.285	0.0169	2202.8	30.984	0.197	2243.01	20.144	0.0746	2347.04	38.583	0.115
K15-265	158.7	1472.3	10.584	0.00167	1560.15	0.00069	1919.61	34.368	0.0226	2200.32	32.451	0.25	NULL	NULL	NULL	2341.11	40.842	0.123
K15-265	158.7	NULL	NULL	NULL	1546.96	0.0164	1910.54	28.319	0.114	2199.08	32.383	0.227	NULL	NULL	NULL	2343.61	39.245	0.121
K15-265	161.7	NULL	NULL	NULL	1556.96	0.0234	1910.77	25.164	0.102	2198.59	29.903	0.14	2253.36	17.539	0.105	2343	40.346	0.0994
K15-265	161.7	NULL	NULL	NULL	NULL	NULL	1909.67	29.521	0.17	2198.55	34.021	0.355	NULL	NULL	NULL	2343.9	41.158	0.182
K15-265	161.7	NULL	NULL	NULL	NULL	NULL	1909.61	32.482	0.0231	2205.13	32.102	0.356	NULL	NULL	NULL	2347.35	40.464	0.188
K15-265	164.7	NULL	NULL	NULL	1538.19	0.00247	1909.26	31.065	0.0272	2205.9	35.082	0.333	NULL	NULL	NULL	2348.24	40.98	0.185
K15-265	164.7	NULL	NULL	NULL	1537.22	0.000427	1914.49	32.935	0.0005	NULL	NULL	NULL	2245.95	16.593	0.000628	2354.56	35.299	0.00582
K15-265	164.7	1479.1	12.956	0.000252	1568.78	0.000481	1910.49	35.745	0.0131	2222.34	27.048	0.177	NULL	NULL	NULL	2353.79	38.406	0.106
K15-265	167.7	1496.44	54.14	3.80E-05	1568.5	0.000361	1912.79	37.457	0.0114	2220.19	29.838	0.231	NULL	NULL	NULL	2348.32	39.578	0.14
K15-265	167.7	1498.57	18.771	0.00773	1568.72	0.0142	1915.85	22.271	0.0414	2220.02	30.825	0.0691	2244.55	17.964	0.0566	NULL	NULL	NULL
K15-265	167.7	NULL	NULL	NULL	1545.71	0.000686	1923.09	44.151	0.055	2216.9	32.796	0.348	NULL	NULL	NULL	2350.73	38.704	0.22
K15-265	170	NULL	NULL	NULL	1554.66	0.0283	NULL	NULL	NULL	2221.43	30.749	0.232	2249.7	20.024	0.237	2340.6	38.786	0.258
K15-265	170	1480.94	16.008	0.000339	1559.95	0.00907	1910.67	30.849	0.0547	2221.53	28.965	0.155	2249.19	19.277	0.172	2337.33	41.393	0.252
K15-265	170	NULL	NULL	NULL	1558.14	0.0198	1911.46	30.472	0.0766	NULL	NULL	NULL	2252.59	18.512	0.163	2325.54	37.115	0.264
K15-265	173.7	NULL	NULL	NULL	1559.51	0.0421	NULL	NULL	NULL	NULL	NULL	NULL	2253.54	19.83	0.214	2333.3	42.093	0.336
K15-265	173.7	NULL	NULL	NULL	1558.74	0.0339	NULL	NULL	NULL	NULL	NULL	NULL	2252.45	17.649	0.185	2341.12	39.695	0.234
K15-265	173.7	NULL	NULL	NULL	1558.07	0.031	1908.82	21.782	0.0551	2223.45	30.224	0.135	2251.4	17.093	0.189	2323.38	36.821	0.269
K15-265	176.7	NULL	NULL	NULL	1557.94	0.0485	NULL	NULL	NULL	NULL	NULL	NULL	2253.05	18.913	0.234	2343.47	39.144	0.313
K15-265	176.7	NULL	NULL	NULL	1549.05	0.00173	1909.87	30.287	0.02	2219.12	32.818	0.338	NULL	NULL	NULL	2342.74	40.951	0.207
K15-265	176.7	NULL	NULL	NULL	1549.01	0.000732	1911.11	34.955	0.0284	2218.81	31.467	0.335	NULL	NULL	NULL	2352.37	39.181	0.207
K15-265	179.7	NULL	NULL	NULL	1567.32	0.000657	1911.07	34.01	0.0388	2217	32.826	0.309	NULL	NULL	NULL	2352.89	38.784	0.199
K15-265	179.7	1472.31	16.022	0.00178	1549.37	0.000538	1913.6	34.359	0.0343	2217.49	33.041	0.32	NULL	NULL	NULL	2351.43	39.605	0.204
K15-265	179.7	NULL	NULL	NULL	1565.71	0.00103	1914.34	33.535	0.022	2216.61	32.217	0.225	NULL	NULL	NULL	2351.22	39.197	0.129
K15-265	183	NULL	NULL	NULL	1549.24	0.000629	1909.55	31.075	0.0913	2202.1	31.893	0.418	NULL	NULL	NULL	2344.45	39.759	0.234

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-265	183	1478.05	15.843	0.00204	1546.75	0.00132	1908.55	35.583	0.00721	2222.79	27.281	0.13	2245.67	19.848	0.115	2334.54	42.214	0.144
K15-265	183	1473.18	15.702	0.00637	1547.19	0.00686	1907.18	31.203	0.0146	2219.01	32.236	0.342	NULL	NULL	NULL	2345.59	39.788	0.218
K15-265	185.7	NULL	NULL	NULL	1554.34	0.0197	1951.75	25.972	0.0319	NULL	NULL	NULL	2251.69	17.177	0.206	2339.86	37.86	0.288
K15-265	185.7	NULL	NULL	NULL	1547.14	0.0191	NULL	NULL	NULL	NULL	NULL	NULL	2252.89	19.579	0.18	2338.67	33.465	0.208
K15-265	185.7	NULL	NULL	NULL	1556.35	0.0169	NULL	NULL	NULL	2216.84	33.79	0.19	2250.15	19.344	0.163	2347.56	35.815	0.166
K15-265	188.7	NULL	NULL	NULL	1557.89	0.00527	1955.61	41.985	0.0166	2208.84	32.453	0.208	2242.35	20.19	0.0829	2348.72	37.985	0.135
K15-265	188.7	1490.82	12.526	0.000282	1555.84	0.00167	1911.55	26.66	0.0119	2210.12	32.759	0.243	NULL	NULL	NULL	2348.54	36.859	0.132
K15-265	188.7	NULL	NULL	NULL	1554.82	0.00495	1912.84	23.958	0.0213	2209.96	32.379	0.259	NULL	NULL	NULL	2350.66	36.981	0.152
K15-265	191.6	NULL	NULL	NULL	1542.94	0.00537	1918	39.558	0.0111	2210.67	33.842	0.234	NULL	NULL	NULL	2350.3	37.135	0.144
K15-265	191.6	NULL	NULL	NULL	1556.02	0.0242	1956.07	42.7	0.0799	2207.66	22.29	0.251	2251.3	17.681	0.178	2343.06	37.529	0.175
K15-265	191.6	NULL	NULL	NULL	1552.91	0.00628	1905.83	26.14	0.0127	2211.43	34.216	0.317	NULL	NULL	NULL	2351.06	38.633	0.189
K15-265	194.7	NULL	NULL	NULL	NULL	NULL	1908.81	31.214	0.201	2208.28	31.684	0.332	NULL	NULL	NULL	2345.72	39.779	0.174
K15-265	194.7	NULL	NULL	NULL	1554.17	0.00743	1909.35	24.676	0.0563	2211.13	34.645	0.309	NULL	NULL	NULL	2348.85	38.53	0.188
K15-265	194.7	NULL	NULL	NULL	1550.01	0.00104	1913.36	36.707	0.0494	2211.64	33.416	0.247	NULL	NULL	NULL	2346.58	37.15	0.155
K15-265	197.7	NULL	NULL	NULL	NULL	NULL	1909.3	29.204	0.0977	2211.37	34.523	0.279	NULL	NULL	NULL	2346.94	40.357	0.156
K15-265	197.7	NULL	NULL	NULL	NULL	NULL	1909.5	31.394	0.0961	2211.84	35.289	0.341	NULL	NULL	NULL	2344.76	41.022	0.193
K15-265	197.7	NULL	NULL	NULL	1546.78	0.00626	1909.63	29.069	0.038	2212.34	34.76	0.343	NULL	NULL	NULL	2351.61	40.065	0.2
K15-265	210.7	1473.86	14.166	0.000661	1540.2	0.000357	NULL	NULL	NULL	NULL	NULL	NULL	2254.48	14.935	0.000699	2357.66	40.318	0.00596
K15-265	210.7	1496.23	24.985	0.00317	1568.21	0.012	1908.51	28.101	0.0221	2212.85	34.543	0.344	NULL	NULL	NULL	2354.77	39.083	0.201
K15-265	210.7	NULL	NULL	NULL	NULL	NULL	1909.09	31.32	0.0468	2213.91	34.279	0.246	NULL	NULL	NULL	2356.2	42.028	0.141
K15-265	213.7	1497.09	35.324	0.000226	1562.98	0.00221	1906.3	32.573	0.0199	2213.88	33.303	0.219	NULL	NULL	NULL	2354.93	37.73	0.133
K15-265	213.7	1482.48	20.754	0.000726	1566.3	0.00383	1912.77	33.082	0.0175	2214.74	33.788	0.177	2246.22	20.005	0.116	2356.78	38.218	0.126
K15-265	213.7	1480.44	15.194	0.0044	1567.44	0.00618	1908.52	31.727	0.031	2214.18	34.779	0.283	NULL	NULL	NULL	2353.87	40.082	0.162
K15-265	216.7	1497.7	13.974	0.000842	1566.96	0.00647	1903.85	25.063	0.00928	2216.33	32.786	0.186	2248.47	20.929	0.111	2355.11	37.339	0.13
K15-265	216.7	NULL	NULL	NULL	1557.69	0.0356	NULL	NULL	NULL	NULL	NULL	NULL	2250.15	18.637	0.205	2337.26	36.235	0.175
K15-265	216.7	1473.9	14.429	0.0205	1558.07	0.0373	NULL	NULL	NULL	NULL	NULL	NULL	2252.13	18.256	0.25	2336.32	36.542	0.214
K15-265	219.7	NULL	NULL	NULL	1556.98	0.0259	1902.96	24.789	0.0166	2214.04	34.985	0.248	2242.04	20.327	0.162	2354.27	40.724	0.151
K15-265	219.7	NULL	NULL	NULL	1564.86	0.0159	1956.89	27.223	0.0118	2217.44	32.81	0.146	2252.29	19.486	0.163	2341.5	40.613	0.138
K15-265	219.7	NULL	NULL	NULL	1564.16	0.0145	1906.84	28.445	0.0303	2217.97	32.784	0.227	2242.45	21.447	0.155	2353.27	39.646	0.154
K15-265	224.7	1474.71	14.78	0.000622	1566.79	0.00343	1905.93	32.164	0.0105	2218.62	31.567	0.157	NULL	NULL	NULL	2354.97	40.003	0.0938
K15-265	224.7	1471.17	10.843	0.00601	1565.17	0.00973	1902.86	27.379	0.00981	2218.79	31.777	0.133	2248.76	20.235	0.127	2333.64	40.073	0.118
K15-265	224.7	1472.59	17.447	0.0113	1550.85	0.0149	NULL	NULL	NULL	2219.78	33.076	0.168	2250	18.754	0.161	2341.99	41.915	0.151
K15-265	229.7	1497.8	15.515	0.0079	1561.28	0.013	1903.66	30.214	0.0118	2218.67	31.974	0.169	NULL	NULL	NULL	2357.38	39.923	0.115
K15-265	229.7	1497	15.726	0.00472	1563.86	0.00804	NULL	NULL	NULL	2218.02	33.664	0.217	NULL	NULL	NULL	2335.39	39.728	0.122
K15-265	229.7	NULL	NULL	NULL	1550.16	0.000648	1909.45	35.548	0.0405	2218.5	32.432	0.431	NULL	NULL	NULL	2354.17	38.926	0.282
K15-265	234.7	1498.44	22.121	0.00763	1566.7	0.0105	1906.68	35.21	0.0114	2219.24	31.074	0.211	2243.62	19.614	0.147	2341.56	41.011	0.139
K15-265	234.7	1494.87	15.126	0.00607	1562.82	0.0102	1905.97	29.391	0.0161	2219.86	32.188	0.229	NULL	NULL	NULL	2351.3	40.879	0.139

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-265	234.7	1496.93	20.628	0.004	1565.82	0.00776	NULL	NULL	NULL	2217.86	31.585	0.188	2241.96	18.463	0.124	2357.19	37.452	0.112
K15-265	239.3	1473.58	15.041	0.000488	1565.11	0.0021	1907.57	31.817	0.0293	2218.28	32.832	0.358	NULL	NULL	NULL	2354.08	40.518	0.219
K15-265	239.3	1473.9	15.117	0.00392	1551.07	0.00156	1910.72	32.451	0.082	2220.07	31.617	0.333	NULL	NULL	NULL	2354.96	39.784	0.209
K15-265	239.3	1472.5	15.378	0.00364	NULL	NULL	1914.36	36.792	0.0254	2222.37	27.724	0.199	2249.58	20.928	0.157	2352.05	40.572	0.163
K15-265	244.7	1496.11	37.314	0.00559	1564.77	0.00818	1905.88	31.383	0.0177	2219.24	32.386	0.311	NULL	NULL	NULL	2350.31	40.276	0.175
K15-265	244.7	NULL	NULL	NULL	1544.08	0.00098	1908.28	32.009	0.207	2217.86	34.101	0.445	NULL	NULL	NULL	2350.11	40.836	0.271
K15-265	244.7	NULL	NULL	NULL	1547.98	0.000286	1909.29	32.033	0.206	2215.19	36.184	0.468	NULL	NULL	NULL	2351.01	41.207	0.288
K15-265	249.7	1470.02	15.942	0.0091	1567.37	0.00836	1909.7	32.628	0.0143	NULL	NULL	NULL	2251.47	17.713	0.0944	2331.56	34.162	0.142
K15-265	249.7	1484.82	16.274	0.0071	1566.72	0.0105	1901.3	29.659	0.013	2219.92	31.979	0.258	2242.4	19.656	0.177	2353.67	40.448	0.147
K15-265	249.7	NULL	NULL	NULL	1547.74	0.00119	1911.39	34.908	0.071	2217.56	33.974	0.38	NULL	NULL	NULL	2353.4	40.996	0.223
K15-265	254.7	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2242.9	18.37	0.000443	NULL	NULL	NULL
K15-265	254.7	1473.18	32.205	0.000273	1549.29	0.0014	1908.54	30.87	0.0159	2218.43	33.531	0.344	NULL	NULL	NULL	2353.15	39.777	0.224
K15-265	254.7	1478.54	18.589	0.00455	1560.03	0.00547	1910.93	32.738	0.0238	2218	32.885	0.21	NULL	NULL	NULL	2352.72	39.407	0.149
K15-265	259.7	1472.85	12.966	0.00113	1563.04	0.00198	1914.42	30.878	0.0148	2215.36	32.595	0.169	2250.41	20.931	0.126	2346.97	38.114	0.152
K15-265	259.7	NULL	NULL	NULL	1560.13	0.00757	1907.66	33.106	0.0107	2213.64	35.068	0.3	NULL	NULL	NULL	2350.07	40.673	0.204
K15-265	259.7	NULL	NULL	NULL	1548.64	0.00135	1910.28	30.606	0.0727	2212.44	35.803	0.341	NULL	NULL	NULL	2347.72	40.677	0.222
K15-265	264.7	NULL	NULL	NULL	1560.09	0.000913	1929.26	38.301	0.00823	2207.77	33.714	0.204	NULL	NULL	NULL	2352.4	37.809	0.127
K15-265	264.7	1471.48	16.76	0.00491	1562.36	0.0071	1953.24	40.048	0.0111	2201.25	29.638	0.141	2255.68	19.017	0.0793	2348.04	37.424	0.112
K15-265	264.7	1474.98	14.59	0.00577	1565.43	0.01	1906.13	23.661	0.026	2199.47	29.362	0.153	2257.6	17.043	0.0897	2352.12	37.538	0.103
K15-265	269.7	1472.47	16.543	0.00711	1564.36	0.0111	1958.57	31.991	0.0258	2200.98	30.372	0.107	2258.59	19.322	0.121	2351.77	34.837	0.128
K15-265	269.7	1472	13.829	0.00379	1558.89	0.00394	1922.72	32.132	0.0143	2206.1	32.572	0.115	2255.19	18.132	0.0788	2355.25	37.893	0.103
K15-265	269.7	1474.14	18.059	0.000338	1539.75	0.000502	1912.97	38.179	0.0183	2207.62	33.797	0.223	NULL	NULL	NULL	2351.62	37.317	0.125
K15-265	274.7	1472.6	21.073	0.00143	1557.53	0.000786	1913.3	29.586	0.0231	2210.41	34.468	0.245	NULL	NULL	NULL	2345.92	38.593	0.142
K15-265	274.7	1474.92	13.731	0.000446	1548.88	0.000884	1905.78	30.276	0.0162	2212.62	33.16	0.163	NULL	NULL	NULL	2349.65	36.377	0.0936
K15-265	274.7	1476.21	17.009	0.000346	1548.05	0.000685	1912.91	28.655	0.00841	2211.79	35.034	0.211	NULL	NULL	NULL	2349.27	37.869	0.142
K15-265	279.7	NULL	NULL	NULL	1561.02	0.00079	1916.37	36.64	0.0149	2210.65	35.478	0.353	NULL	NULL	NULL	2348.17	40.369	0.221
K15-265	279.7	1471.66	13.746	0.00272	NULL	NULL	1907.02	36.85	0.0173	2211.13	35.11	0.243	NULL	NULL	NULL	2347.94	38.237	0.164
K15-265	279.7	1471.84	14.969	0.000717	1537.73	0.000474	1924.22	29.184	0.00103	NULL	NULL	NULL	2241.75	14.347	0.000505	2346.86	37.076	0.00665
K15-265	284.7	1470.65	14.005	0.00181	1549.87	0.000614	1914.28	31.118	0.0198	2209.47	35.62	0.301	NULL	NULL	NULL	2347.42	39.513	0.191
K15-265	284.7	1472.26	13.982	0.0017	1559.27	0.000952	1919.99	37.194	0.0188	2208.16	35.008	0.291	NULL	NULL	NULL	2348.04	39.83	0.172
K15-265	284.7	NULL	NULL	NULL	1555.32	0.000705	1919.46	28.66	0.0114	2204.53	33.259	0.326	NULL	NULL	NULL	2350.85	38.765	0.194
K15-272	8.8	1472.48	12.479	0.000923	1548.5	0.000701	1918.28	30.74	0.0135	2201.53	32.243	0.302	NULL	NULL	NULL	2348.79	40.547	0.16
K15-272	8.8	1471.92	17.07	0.000397	1545.67	0.00136	1915.7	31.69	0.0209	2202.43	33.251	0.345	NULL	NULL	NULL	2344.49	39.594	0.192
K15-272	8.8	1489.89	13.755	0.000995	1541.64	0.00199	1917.62	36.987	0.0111	2201.4	31.454	0.225	2243.86	17.445	0.0726	2342.75	39.509	0.125
K15-272	13.8	NULL	NULL	NULL	1541.68	0.00859	1909.53	29.77	0.156	2200.4	33.937	0.351	NULL	NULL	NULL	2344.37	39.999	0.207
K15-272	13.8	NULL	NULL	NULL	1541.35	0.0133	1910.89	30.658	0.12	2199.3	33.419	0.291	NULL	NULL	NULL	2342.73	40.274	0.155
K15-272	13.8	NULL	NULL	NULL	1539.25	0.0378	1909.5	30.501	0.274	2199.91	32.91	0.226	2253.07	20.002	0.118	2343.31	39.743	0.147

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-272	18.8	NULL	NULL	NULL	1545.58	0.00968	1911.8	29.77	0.102	2198.54	32.572	0.296	NULL	NULL	NULL	2342.52	39.665	0.167
K15-272	18.8	1473.25	14.543	0.00869	1543	0.00339	1912.86	30.293	0.0218	2201.76	33.092	0.364	NULL	NULL	NULL	2345.07	40.996	0.192
K15-272	18.8	NULL	NULL	NULL	1544.58	0.00104	1914.36	31.253	0.0332	2207.21	33.87	0.308	NULL	NULL	NULL	2350.37	39.89	0.189
K15-272	23.8	NULL	NULL	NULL	1544.03	0.00285	1940.8	38.254	0.0715	2205.94	33.348	0.435	NULL	NULL	NULL	2350.26	39.317	0.255
K15-272	23.8	NULL	NULL	NULL	1542.43	0.000677	1941.28	40.648	0.06	2204.95	32.153	0.293	NULL	NULL	NULL	2347.52	38.21	0.159
K15-272	23.8	NULL	NULL	NULL	1545.98	0.00162	1915.26	37.483	0.00799	2211.04	33.927	0.281	NULL	NULL	NULL	2350.3	38.499	0.163
K15-272	26.8	1471.91	15.663	0.00139	NULL	NULL	1914.38	25.511	0.00578	2211.08	32.836	0.257	NULL	NULL	NULL	2350.38	36.572	0.15
K15-272	26.8	NULL	NULL	NULL	1539.27	0.00746	1942.14	35.512	0.0861	2212.12	31.361	0.104	NULL	NULL	NULL	2352.41	33.105	0.046
K15-272	26.8	NULL	NULL	NULL	NULL	NULL	1940.34	42.695	0.302	2209.59	32.376	0.292	NULL	NULL	NULL	2350.38	35.171	0.141
K15-272	29.8	1470.54	6.731	0.000453	1558.12	0.000529	1917.84	41.668	0.00799	2208.07	33.515	0.346	NULL	NULL	NULL	2348.69	37.737	0.205
K15-272	29.8	1475.29	12.576	0.00139	1547.69	0.000502	1937.92	47.555	0.0226	2206.56	32.912	0.28	NULL	NULL	NULL	2348.75	37.751	0.155
K15-272	29.8	NULL	NULL	NULL	1540.3	0.00483	1941.46	41.014	0.139	2207.06	33.883	0.323	NULL	NULL	NULL	2346.9	38.904	0.186
K15-272	33	NULL	NULL	NULL	NULL	NULL	1940.98	39.066	0.204	2206.85	30.169	0.258	NULL	NULL	NULL	2347.74	37.4	0.1
K15-272	33	NULL	NULL	NULL	1566.12	0.000636	1940.86	34.736	0.0285	2217.38	31.633	0.225	NULL	NULL	NULL	2347.73	38.177	0.136
K15-272	33	1479.69	20.294	0.00153	NULL	NULL	1936.37	39.996	0.0179	2209.33	32.91	0.189	NULL	NULL	NULL	2341.97	37.509	0.124
K15-272	35.8	NULL	NULL	NULL	1566.71	0.000376	1938.13	43.899	0.0105	2213.27	33.801	0.151	NULL	NULL	NULL	2347.59	38.218	0.0901
K15-272	35.8	NULL	NULL	NULL	1538.76	0.000356	1925.35	43.614	0.0509	2212.86	34.117	0.332	NULL	NULL	NULL	2351.34	38.222	0.195
K15-272	35.8	1497.31	21.181	0.00098	NULL	NULL	1944.12	29.203	0.004	2216.84	30.971	0.0369	NULL	NULL	NULL	2307.92	35.156	0.0248
K15-272	38.8	1497.11	65.092	8.40E-05	NULL	NULL	1940.2	23.98	0.00409	2208.24	34.098	0.0296	2242.36	19.868	0.0255	2324.51	34.821	0.0219
K15-272	38.8	1491.82	11.895	0.000579	NULL	NULL	1944.67	30.198	0.00837	2228.16	31.985	0.0333	2244.1	14.304	0.0316	2322.53	32.459	0.0282
K15-272	38.8	NULL	NULL	NULL	NULL	NULL	1911.16	33.984	0.265	2208.97	23.97	0.295	NULL	NULL	NULL	2352.02	37.087	0.155
K15-272	41.8	NULL	NULL	NULL	1549.38	0.014	1955.27	50.66	0.0671	NULL	NULL	NULL	2252.09	17.902	0.171	2336.86	36.997	0.191
K15-272	41.8	NULL	NULL	NULL	1557.65	0.0148	1957.42	25.825	0.0406	NULL	NULL	NULL	2252.52	18.232	0.193	2340.43	36.119	0.208
K15-272	41.8	NULL	NULL	NULL	NULL	NULL	1910.56	33.346	0.0877	2210.13	33.391	0.255	NULL	NULL	NULL	2346.33	37.454	0.142
K15-272	44.8	NULL	NULL	NULL	1550.26	0.0179	1957.73	24.956	0.0387	2223.17	30.223	0.154	2250.43	19.085	0.196	2339.68	38.645	0.204
K15-272	44.8	NULL	NULL	NULL	1557.36	0.0315	1910.54	44.912	0.0567	NULL	NULL	NULL	2253.26	19.88	0.198	2334.16	39.324	0.293
K15-272	44.8	NULL	NULL	NULL	1548.22	0.0144	1959.9	21.888	0.04	NULL	NULL	NULL	2254.24	19.697	0.195	2343.92	36.75	0.247
K15-272	47.8	NULL	NULL	NULL	1542.6	0.00042	1910.18	33.372	0.0977	2219.23	31.909	0.164	NULL	NULL	NULL	2347.37	37.918	0.11
K15-272	47.8	NULL	NULL	NULL	NULL	NULL	1929.18	44.74	0.21	2198.14	27.809	0.00522	2250.41	14.149	0.00293	2327.63	29.823	0.00807
K15-272	47.8	NULL	NULL	NULL	1550.79	0.00245	1916.79	38.933	0.0321	2210.06	35.582	0.338	NULL	NULL	NULL	2343.87	40.053	0.207
K15-272	50.8	NULL	NULL	NULL	1543.94	0.00546	1921.62	35.767	0.0471	2213.3	35.074	0.417	NULL	NULL	NULL	2346.76	39.537	0.26
K15-272	50.8	NULL	NULL	NULL	1541.77	0.000626	1920.53	35.078	0.023	2215.04	31.235	0.112	NULL	NULL	NULL	2347.55	35.1	0.0613
K15-272	50.8	NULL	NULL	NULL	1544.19	0.000446	1911.26	31.072	0.0802	2211.53	33.077	0.139	2240.43	15.803	0.0622	2350.27	36.196	0.0736
K15-272	53.8	NULL	NULL	NULL	1552.37	0.00165	1937.76	40.479	0.0649	2207.41	34.348	0.417	NULL	NULL	NULL	2347.76	38.829	0.252
K15-272	53.8	NULL	NULL	NULL	1540.98	0.00119	1940.95	38.833	0.0562	2204.49	31.208	0.285	NULL	NULL	NULL	2349.89	36.597	0.156
K15-272	53.8	NULL	NULL	NULL	NULL	NULL	1942.1	38.739	0.0677	2200.91	35.691	0.0469	2242.49	15.789	0.0137	2355.14	38.643	0.0134
K15-272	57	NULL	NULL	NULL	1539.72	0.00112	1941.2	36.509	0.111	2207.07	30.299	0.0481	2242.42	15.43	0.0194	2341.14	37.742	0.0077

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-272	57	NULL	NULL	NULL	1553.5	0.000768	1911.5	42.029	0.0463	2208.29	33.591	0.233	NULL	NULL	NULL	2344.7	38.024	0.128
K15-272	57	NULL	NULL	NULL	1558.91	0.000515	1938.15	39.698	0.0304	2216.23	32.874	0.266	NULL	NULL	NULL	2348.45	37.821	0.162
K15-272	60	NULL	NULL	NULL	1549.3	0.0152	1908.84	26.871	0.0643	NULL	NULL	NULL	2250.91	18.379	0.191	2335.47	38.87	0.276
K15-272	60	1471.29	11.188	0.000427	1539.51	0.000565	1911.65	26.446	0.0117	2213.94	32.651	0.171	NULL	NULL	NULL	2350.92	36.941	0.0997
K15-272	60	NULL	NULL	NULL	1541.14	0.000998	1928.33	39.178	0.0133	2208.81	31.131	0.121	NULL	NULL	NULL	2353.19	32.003	0.0743
K15-272	62.8	NULL	NULL	NULL	1539.69	0.00338	1914.73	43.128	0.102	2206.12	32.913	0.258	NULL	NULL	NULL	2347.29	38.688	0.164
K15-272	62.8	NULL	NULL	NULL	1545.56	0.0128	1942.68	37.315	0.105	NULL	NULL	NULL	2252.79	17.681	0.118	2338.66	36.189	0.116
K15-272	62.8	NULL	NULL	NULL	1540.01	0.00745	1941.59	36.486	0.136	2204.01	31.887	0.286	NULL	NULL	NULL	2348.56	38.496	0.152
K15-272	67.8	NULL	NULL	NULL	NULL	NULL	1910.89	35.658	0.0992	2202.39	31.491	0.3	NULL	NULL	NULL	2344.74	39.208	0.177
K15-272	67.8	NULL	NULL	NULL	1541.87	0.00573	1940.87	36.739	0.0739	2203.15	31.506	0.167	NULL	NULL	NULL	2343.69	39.721	0.0856
K15-272	67.8	NULL	NULL	NULL	1538.07	0.0062	1941.55	37.221	0.113	2202.48	30.618	0.186	NULL	NULL	NULL	2345.69	38.047	0.107
K15-272	72.8	NULL	NULL	NULL	NULL	NULL	1910.67	33.571	0.146	2202.27	32.472	0.263	NULL	NULL	NULL	2345.56	39.425	0.137
K15-272	72.8	NULL	NULL	NULL	1545.38	0.00372	1911.91	29.011	0.0217	2204.1	32.515	0.259	NULL	NULL	NULL	2347.99	38.725	0.153
K15-272	72.8	NULL	NULL	NULL	1544.05	0.00408	1912.04	41.655	0.0466	2204.56	32.239	0.313	NULL	NULL	NULL	2345.39	38.495	0.178
K15-272	77.8	1473.32	16.97	0.000669	1539.01	0.000356	1958.63	32.373	0.00116	NULL	NULL	NULL	2242.93	20.125	0.00085	NULL	NULL	NULL
K15-272	77.8	NULL	NULL	NULL	1547.75	0.00254	1910.92	36.978	0.0297	2219.13	31.305	0.291	NULL	NULL	NULL	2349.06	39.33	0.174
K15-272	77.8	NULL	NULL	NULL	1550.13	0.0267	NULL	NULL	NULL	NULL	NULL	NULL	2252.3	18.692	0.241	2337.71	32.471	0.236
K15-272	80.8	NULL	NULL	NULL	1549.33	0.0164	1957.71	19.243	0.0391	NULL	NULL	NULL	2252.22	19.322	0.183	2327.91	43.37	0.221
K15-272	80.8	NULL	NULL	NULL	1556.89	0.0207	NULL	NULL	NULL	NULL	NULL	NULL	2251.52	18.694	0.18	2328.78	39.61	0.23
K15-272	80.8	NULL	NULL	NULL	1556.79	0.011	1957.77	20.897	0.0411	NULL	NULL	NULL	2251.91	18.999	0.183	2325.25	42.308	0.205
K15-272	83.8	1472.36	12.043	0.00301	1563.9	0.00884	1957.81	23.68	0.0399	NULL	NULL	NULL	2253.54	19.645	0.2	2339.44	35.633	0.208
K15-272	83.8	NULL	NULL	NULL	1540.36	0.000877	1912.55	36.292	0.0597	2209.99	33.455	0.261	NULL	NULL	NULL	2349.96	37.511	0.149
K15-272	83.8	1475.6	14.196	0.000249	1551.06	0.00172	1913.15	38.582	0.00467	2209.57	33.078	0.312	NULL	NULL	NULL	2350.21	36.933	0.186
K15-272	86.8	NULL	NULL	NULL	1548.59	0.00158	1909.69	39.419	0.0286	2209.85	33.78	0.315	NULL	NULL	NULL	2349.71	38.743	0.185
K15-272	86.8	NULL	NULL	NULL	1545.44	0.000829	1926.79	37.578	0.0141	2212.77	33.393	0.27	NULL	NULL	NULL	2350.56	37.159	0.157
K15-272	86.8	NULL	NULL	NULL	1548.3	0.000671	1937.17	38.452	0.0191	2212.15	33.074	0.28	NULL	NULL	NULL	2349.77	37.38	0.165
K15-272	89.8	1473.48	11.472	0.000418	1548.54	0.00179	1917.64	36.84	0.0141	2212.78	34.006	0.322	NULL	NULL	NULL	2349.75	38.545	0.194
K15-272	89.8	NULL	NULL	NULL	1547.55	0.00258	1910.44	36.581	0.00921	2213.73	34.166	0.368	NULL	NULL	NULL	2348.93	39.511	0.219
K15-272	89.8	NULL	NULL	NULL	1547.78	0.00115	1914.34	36.597	0.0131	2215.49	34.235	0.395	NULL	NULL	NULL	2348.6	40.257	0.238
K15-272	95.8	NULL	NULL	NULL	1550.17	0.0012	1912.26	35.417	0.0518	2213.74	34.805	0.346	NULL	NULL	NULL	2351.1	40.242	0.203
K15-272	95.8	NULL	NULL	NULL	1566.52	0.000251	1917.34	38.333	0.0802	2203.7	32.157	0.216	NULL	NULL	NULL	2347.34	37.677	0.111
K15-272	95.8	1473.64	11.944	0.000743	1539.25	0.000554	1916.26	39.784	0.016	2206.2	31.64	0.289	NULL	NULL	NULL	2349.42	38.796	0.154
K15-272	99	NULL	NULL	NULL	1539.75	0.00136	1931.67	43.351	0.00851	2215.95	32.384	0.289	NULL	NULL	NULL	2348.5	38.537	0.172
K15-272	99	NULL	NULL	NULL	1548.26	0.000984	1932.09	45.142	0.0269	2211.46	33.475	0.319	NULL	NULL	NULL	2348.17	38.399	0.179
K15-272	99	NULL	NULL	NULL	1547	0.000301	1915.17	38.318	0.0916	2205.37	33.102	0.366	NULL	NULL	NULL	2346.14	39.869	0.204
K15-272	101.8	1497.17	13.652	0.00273	1546.26	0.00281	1951.76	33.729	0.00233	NULL	NULL	NULL	NULL	NULL	NULL	2350.43	35.139	0.00626
K15-272	101.8	NULL	NULL	NULL	1539.92	0.000303	1906.05	26.927	0.0013	NULL	NULL	NULL	NULL	NULL	NULL	2354.51	33.333	0.00765

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-272	101.8	NULL	NULL	NULL	1540.66	0.000502	1914.87	36.886	0.0417	2208.12	33.349	0.288	NULL	NULL	NULL	2344.2	38.672	0.163
K15-272	106.8	NULL	NULL	NULL	1550.27	0.000758	1918.22	34.615	0.0142	2214.97	33.687	0.355	NULL	NULL	NULL	2349.91	39.774	0.213
K15-272	106.8	1473.14	16.762	0.00486	1563.27	0.00109	1913.84	36.496	0.0395	2212.13	33.271	0.264	NULL	NULL	NULL	2347.81	38.241	0.147
K15-272	106.8	NULL	NULL	NULL	1548.85	0.00371	1923.97	44.377	0.0241	2214.9	31.689	0.199	NULL	NULL	NULL	2343.51	37.879	0.117
K15-272	111.8	1473.94	14.201	0.00335	1548.06	0.000766	1927.27	42.111	0.0436	2215.56	33.67	0.358	NULL	NULL	NULL	2351.56	39.859	0.213
K15-272	111.8	NULL	NULL	NULL	1557.93	0.000463	1924.29	41.872	0.0321	2216.9	32.677	0.342	NULL	NULL	NULL	2348.38	39.21	0.21
K15-272	111.8	NULL	NULL	NULL	1547.09	0.00117	1914.59	35.344	0.0623	2210.4	34.436	0.376	NULL	NULL	NULL	2348.26	39.332	0.216
K15-272	119.8	NULL	NULL	NULL	1546.86	0.000619	1934.88	41.706	0.0251	2218.25	31.698	0.357	NULL	NULL	NULL	2351.53	40.192	0.211
K15-272	119.8	1473.15	13.793	0.00597	1564.63	0.0004	1915.92	37.129	0.0766	2216.42	32.27	0.279	NULL	NULL	NULL	2346.66	38.794	0.164
K15-272	119.8	NULL	NULL	NULL	1559.43	0.000797	1938.88	40.124	0.038	2218.14	32.242	0.375	NULL	NULL	NULL	2348.38	40.722	0.226
K15-272	124.8	NULL	NULL	NULL	1550.36	0.00113	1915.69	37.503	0.0654	2217.34	33.466	0.389	NULL	NULL	NULL	2350	40.603	0.236
K15-272	124.8	NULL	NULL	NULL	1553.91	0.000432	1914.35	37.202	0.0916	2217.95	32.144	0.335	NULL	NULL	NULL	2347.53	38.822	0.203
K15-272	124.8	NULL	NULL	NULL	1545.35	0.000463	1916.37	36.61	0.0373	2217.45	31.626	0.316	NULL	NULL	NULL	2352.04	39.022	0.184
K15-301	23	NULL	NULL	NULL	1551.42	0.000827	1913.16	37.188	0.0661	2215.33	33.868	0.291	NULL	NULL	NULL	2344.47	40.934	0.161
K15-301	28	NULL	NULL	NULL	1552.84	0.00039	1926.37	37.425	0.0218	2217.1	32.042	0.274	NULL	NULL	NULL	2351.86	39.493	0.155
K15-301	33	NULL	NULL	NULL	1542.23	0.00196	1920.69	46.97	0.0985	2218.94	30.434	0.119	NULL	NULL	NULL	2338.9	37.171	0.0624
K15-301	38	NULL	NULL	NULL	1552.23	0.000446	1929.71	46.68	0.0511	2220.18	28.707	0.171	NULL	NULL	NULL	2340.98	38.158	0.101
K15-301	43	1472.06	20.841	0.000368	1545.9	0.000586	1940.06	42.332	0.0137	2222.17	26.586	0.173	NULL	NULL	NULL	2351.65	36.944	0.106
K15-301	48	NULL	NULL	NULL	1550.04	0.000651	1913.44	39.658	0.0244	2218.54	30.88	0.24	NULL	NULL	NULL	2345.98	39.139	0.145
K15-301	53	1497.56	127.91	2.40E-05	1550.11	0.000621	1922.58	31.264	0.0157	2219.91	29.808	0.179	NULL	NULL	NULL	2351.31	37.806	0.119
K15-301	58	NULL	NULL	NULL	1553.22	0.000523	1918.1	37.946	0.0177	2219.33	30.896	0.363	NULL	NULL	NULL	2347.28	39.902	0.222
K15-301	61	1471.71	13.225	0.000768	1548.57	0.000332	1915.29	34.33	0.016	2219.4	31.242	0.323	NULL	NULL	NULL	2352.6	38.416	0.195
K15-301	64	NULL	NULL	NULL	1558.09	0.00055	1918.37	38.405	0.0268	2215.72	34.133	0.372	NULL	NULL	NULL	2350.2	39.158	0.228
K15-301	66.7	NULL	NULL	NULL	1546.53	0.000279	1913.77	36.357	0.0365	2214.41	34.137	0.314	NULL	NULL	NULL	2352.92	40.073	0.176
K15-301	70	NULL	NULL	NULL	1549.12	0.000833	1922.89	42.013	0.0502	2215.9	33.362	0.365	NULL	NULL	NULL	2349.59	39.186	0.221
K15-301	73	1471.99	10.187	0.00103	1565.77	0.000455	1917.41	37.798	0.0172	2218.16	31.383	0.365	NULL	NULL	NULL	2351.56	38.885	0.223
K15-301	76	NULL	NULL	NULL	NULL	NULL	1945.68	36.13	0.0069	NULL	NULL	NULL	2264.02	13.378	0.0014	2344.56	26.971	0.0109
K15-301	79	NULL	NULL	NULL	1541.49	0.000334	1924.27	32.649	0.00108	NULL	NULL	NULL	2246.43	16.293	0.000375	2355.74	32.986	0.00622
K15-301	85	1493.63	15.005	0.000218	1568.55	0.000477	1920.38	33.567	0.013	2219.37	28.805	0.141	2246.29	19.958	0.0905	2346.84	39.41	0.112
K15-301	88	NULL	NULL	NULL	1551.15	0.000471	1916.41	38.004	0.0479	2217.49	31.958	0.37	NULL	NULL	NULL	2348.99	38.396	0.226
K15-301	91	NULL	NULL	NULL	1550.25	0.00015	1914.05	36.781	0.116	2213.92	33.444	0.182	NULL	NULL	NULL	2341.73	39.364	0.124
K15-301	94	NULL	NULL	NULL	1565.97	4.20E-05	1915.43	39.063	0.0487	2216.91	32.466	0.325	NULL	NULL	NULL	2351	38.522	0.195
K15-301	97	NULL	NULL	NULL	1552.08	0.000946	1915.03	37.128	0.0268	2215.93	32.423	0.297	NULL	NULL	NULL	2349.2	38.603	0.187
K15-301	100	NULL	NULL	NULL	1554.2	0.000329	1921.29	39.953	0.0442	2215.73	32.829	0.3	NULL	NULL	NULL	2346.23	38.44	0.177
K15-301	103	NULL	NULL	NULL	1546.33	0.00405	1949.62	47.619	0.0599	2228.06	33.495	0.038	2255.27	19.601	0.108	2351.57	37.198	0.105
K15-301	106	NULL	NULL	NULL	NULL	NULL	1917.05	39.046	0.0736	2213.97	33.985	0.253	NULL	NULL	NULL	2346.11	40.478	0.139
K15-301	109	NULL	NULL	NULL	1566.71	0.000352	1915.93	37.82	0.056	2214.18	33.789	0.321	NULL	NULL	NULL	2350.22	39.416	0.191

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-301	112	NULL	NULL	NULL	NULL	NULL	1946.77	46.967	0.0694	2215.63	32.666	0.068	2255.74	19.914	0.102	2336.64	37.779	0.158
K15-301	115	NULL	NULL	NULL	1548.24	0.000376	1912.4	34.867	0.0522	2214.7	33.554	0.334	NULL	NULL	NULL	2350.16	38.775	0.199
K15-301	118	NULL	NULL	NULL	1559.48	0.000513	1913.36	37.575	0.0625	2214.35	33.24	0.399	NULL	NULL	NULL	2350.87	38.015	0.244
K15-301	123	NULL	NULL	NULL	NULL	NULL	1930.13	44.934	0.0787	2212.94	34.649	0.275	NULL	NULL	NULL	2344.82	39.965	0.159
K15-301	128	NULL	NULL	NULL	1555.46	0.00316	1944.59	43.906	0.0334	2212.6	33.669	0.0559	2254.75	17.773	0.0957	2350.14	36.894	0.097
K15-301	133	NULL	NULL	NULL	1548.51	0.000381	1920.85	39.294	0.0401	2214.01	33.812	0.338	NULL	NULL	NULL	2348.91	38.748	0.195
K15-301	138	NULL	NULL	NULL	1552.39	0.000702	1922.99	39.133	0.0232	2213.59	33.174	0.274	NULL	NULL	NULL	2350.49	38.334	0.159
K15-307	7.5	NULL	NULL	NULL	1540.27	0.00342	1931.52	46.125	0.0847	2213.98	33.911	0.299	NULL	NULL	NULL	2348.57	38.579	0.173
K15-307	7.5	NULL	NULL	NULL	1547.33	0.00233	1946.68	31.217	0.0153	2213.6	32.487	0.0638	2253.61	18.074	0.0781	2352.22	36.837	0.0812
K15-307	7.5	1475.36	14.615	0.000586	1555.2	0.000593	1923.02	36.692	0.0128	2215.74	32.1	0.14	NULL	NULL	NULL	2356.13	39.072	0.0847
K15-307	12.5	NULL	NULL	NULL	NULL	NULL	1921.18	44.256	0.0768	2215.12	33.516	0.239	NULL	NULL	NULL	2351.07	39.49	0.134
K15-307	12.5	NULL	NULL	NULL	NULL	NULL	1936.76	40.692	0.00704	NULL	NULL	NULL	NULL	NULL	NULL	2307.54	23.473	0.0217
K15-307	12.5	NULL	NULL	NULL	NULL	NULL	1904.56	30.228	0.00103	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
K15-307	17.7	NULL	NULL	NULL	NULL	NULL	1933.32	44.912	0.12	2214.75	32.372	0.348	NULL	NULL	NULL	2350.67	36.332	0.209
K15-307	17.7	NULL	NULL	NULL	NULL	NULL	1931.12	46.929	0.281	2212.58	34.335	0.225	NULL	NULL	NULL	2340.99	38.836	0.151
K15-307	17.7	1473.73	12.903	0.00574	1552.79	0.00325	1947.98	45.954	0.0496	2217.94	31.648	0.0334	2255.32	19.11	0.0788	2346.1	36.996	0.0785
K15-307	22.5	NULL	NULL	NULL	NULL	NULL	1934.45	46.564	0.141	2211.52	33.768	0.0732	2255.6	16.835	0.0839	2347.89	36.212	0.097
K15-307	22.5	NULL	NULL	NULL	NULL	NULL	1929.92	46.03	0.198	2210.33	34.434	0.346	NULL	NULL	NULL	2348.4	38.412	0.212
K15-307	22.5	NULL	NULL	NULL	NULL	NULL	1935.29	45.885	0.203	2210.2	34.264	0.285	NULL	NULL	NULL	2344.98	39.099	0.155
K15-307	27.5	NULL	NULL	NULL	NULL	NULL	1930.4	44.8	0.182	2210.18	34.363	0.386	NULL	NULL	NULL	2347.66	38.368	0.229
K15-307	27.5	NULL	NULL	NULL	NULL	NULL	1931.19	44.66	0.187	2211.76	34.83	0.4	NULL	NULL	NULL	2347.36	39.009	0.231
K15-307	27.5	NULL	NULL	NULL	NULL	NULL	1932.1	44.995	0.167	2211.91	34.285	0.344	NULL	NULL	NULL	2348.84	37.872	0.207
K15-307	32.5	NULL	NULL	NULL	NULL	NULL	1924.37	45.341	0.0731	2213.2	34.398	0.237	NULL	NULL	NULL	2344.26	39.029	0.129
K15-307	32.5	NULL	NULL	NULL	NULL	NULL	1923.37	46.652	0.104	2215.72	32.285	0.164	2242.34	19.225	0.0971	2341.91	39.408	0.114
K15-307	32.5	NULL	NULL	NULL	NULL	NULL	1931.04	44.823	0.0458	2219.39	29.642	0.173	NULL	NULL	NULL	2346.02	39.44	0.0971
K15-307	37.5	NULL	NULL	NULL	NULL	NULL	1919.5	42.304	0.15	2219.69	31.191	0.277	NULL	NULL	NULL	2349.88	39.513	0.166
K15-307	37.5	NULL	NULL	NULL	1559.85	0.000235	1922.14	42.995	0.106	2221.4	29.969	0.241	NULL	NULL	NULL	2346.23	39.544	0.147
K15-307	37.5	NULL	NULL	NULL	NULL	NULL	1927.04	44.187	0.156	2217.08	33.487	0.343	NULL	NULL	NULL	2350.83	39.637	0.207
K15-307	42.5	NULL	NULL	NULL	NULL	NULL	1925.96	43.677	0.04	2219.76	30.07	0.193	NULL	NULL	NULL	2347.81	37.974	0.111
K15-307	42.5	NULL	NULL	NULL	1542.95	0.000365	1920.78	37.985	0.0372	2218.65	31.768	0.298	NULL	NULL	NULL	2348.52	39.54	0.176
K15-307	42.5	NULL	NULL	NULL	1545.63	0.000497	1925.7	39.509	0.064	2218.84	30.844	0.34	NULL	NULL	NULL	2349.56	37.755	0.207
K15-307	47.5	NULL	NULL	NULL	1538.94	0.00144	1923.28	43.164	0.0437	2217.17	32.39	0.187	NULL	NULL	NULL	2348.44	39.009	0.119
K15-307	47.5	NULL	NULL	NULL	1561.46	0.00106	1919.58	39.464	0.0546	2216.69	32.89	0.268	NULL	NULL	NULL	2351.2	39.35	0.151
K15-307	47.5	1473.45	10.498	0.002	1543.95	0.000786	1945.82	48.878	0.0354	2215.37	32.97	0.25	2242.21	20.969	0.138	2346.52	38.227	0.176
K15-307	52.5	NULL	NULL	NULL	1537.06	0.0017	1925.51	44.838	0.146	2215.56	33.344	0.269	NULL	NULL	NULL	2347.2	39.124	0.156
K15-307	52.5	NULL	NULL	NULL	NULL	NULL	1927.42	44.631	0.225	2215.75	33.526	0.343	NULL	NULL	NULL	2348.07	38.938	0.212
K15-307	52.5	NULL	NULL	NULL	1538.13	0.000569	1919.79	43.403	0.0569	2216.95	31.785	0.24	NULL	NULL	NULL	2348.55	38.326	0.141

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-307	57.5	NULL	NULL	NULL	1541.9	0.00554	1934.8	47.175	0.0857	2215.84	33.229	0.233	NULL	NULL	NULL	2350.35	37.909	0.151
K15-307	57.5	NULL	NULL	NULL	NULL	NULL	1933.41	45.453	0.126	2216.13	32.555	0.233	NULL	NULL	NULL	2350.13	38	0.138
K15-307	57.5	NULL	NULL	NULL	NULL	NULL	1931.36	44.839	0.111	2216.4	32.855	0.297	NULL	NULL	NULL	2348.04	38.451	0.183
K15-307	62	NULL	NULL	NULL	1544.99	0.000191	1924.92	42.327	0.0754	2216.56	33.172	0.394	NULL	NULL	NULL	2348.94	38.691	0.253
K15-307	62	NULL	NULL	NULL	1539.33	0.00162	1928.1	45.923	0.0621	2216.83	32.548	0.28	NULL	NULL	NULL	2348.9	38.11	0.179
K15-307	62	NULL	NULL	NULL	1540.73	0.00451	1932.6	45.435	0.0903	2216.99	32.965	0.263	NULL	NULL	NULL	2348.77	38.748	0.16
K15-307	67.5	NULL	NULL	NULL	NULL	NULL	1928.11	43.829	0.105	2217	32.629	0.342	NULL	NULL	NULL	2347.98	38.969	0.21
K15-307	67.5	NULL	NULL	NULL	NULL	NULL	1927.94	43.41	0.0914	2217.43	32.363	0.336	NULL	NULL	NULL	2350.6	38.944	0.206
K15-307	67.5	NULL	NULL	NULL	NULL	NULL	1931.91	44.165	0.132	2218.68	31.734	0.311	NULL	NULL	NULL	2349.64	39.227	0.192
K15-307	72.5	NULL	NULL	NULL	NULL	NULL	1928.37	44.507	0.165	2218.54	32.206	0.274	NULL	NULL	NULL	2348.8	39.295	0.16
K15-307	72.5	NULL	NULL	NULL	NULL	NULL	1928.76	44.932	0.118	2218.53	32.04	0.227	NULL	NULL	NULL	2349.57	38.845	0.138
K15-307	72.5	NULL	NULL	NULL	NULL	NULL	1911.54	37.084	0.212	2217.97	33.568	0.417	NULL	NULL	NULL	2346.23	40.327	0.269
K15-307	77.5	NULL	NULL	NULL	NULL	NULL	1928.04	44.008	0.144	2216.37	34.148	0.335	NULL	NULL	NULL	2347.12	40.14	0.207
K15-307	77.5	1473	14.674	0.00627	1544.14	0.00136	1935.13	42.441	0.031	2216.2	32.705	0.223	NULL	NULL	NULL	2345.84	40.111	0.133
K15-307	77.5	NULL	NULL	NULL	1556.36	0.000847	1921.34	38.636	0.0412	2216.84	32.781	0.305	NULL	NULL	NULL	2347.33	39.049	0.173
K15-307	82.5	NULL	NULL	NULL	NULL	NULL	1919.99	37.1	0.0442	2216.5	34.678	0.284	NULL	NULL	NULL	2343.12	41.101	0.177
K15-307	82.5	1473.14	14.499	0.00128	1562	0.00111	1919.6	36.12	0.0209	2216.61	32.655	0.226	NULL	NULL	NULL	2345.23	39.568	0.125
K15-307	82.5	NULL	NULL	NULL	1541.83	0.000407	1920.68	42.653	0.0604	2219.4	31.665	0.231	NULL	NULL	NULL	2345.63	40.031	0.134
K15-307	87.5	NULL	NULL	NULL	NULL	NULL	1910.84	35.976	0.25	2216.5	34.78	0.263	NULL	NULL	NULL	2343.36	39.432	0.15
K15-307	87.5	NULL	NULL	NULL	1567.29	0.000335	1919.14	34.028	0.0306	2220.05	31.097	0.208	NULL	NULL	NULL	2343.61	40.471	0.123
K15-307	87.5	NULL	NULL	NULL	NULL	NULL	1921.96	44.504	0.103	2220.82	31.412	0.262	NULL	NULL	NULL	2350.72	40.563	0.176
K15-307	92.5	1472.92	13.095	0.0031	1562.06	0.000809	1921.89	37.504	0.0269	2220.79	30.897	0.241	NULL	NULL	NULL	2343.76	39.847	0.149
K15-307	92.5	NULL	NULL	NULL	1537.94	0.000708	1902.82	29.264	0.00429	NULL	NULL	NULL	2245.89	10.818	0.000705	2358.19	35.571	0.00541
K15-307	92.5	NULL	NULL	NULL	NULL	NULL	1954.07	38.549	0.00082	NULL	NULL	NULL	2243.23	14.154	0.00149	2356.97	37.688	0.00644
K15-307	97.5	NULL	NULL	NULL	1556.7	0.000635	1917.18	39.7	0.0657	2220.71	31.693	0.282	NULL	NULL	NULL	2347	40.315	0.17
K15-307	97.5	NULL	NULL	NULL	1547.57	0.000389	1912.01	34.841	0.149	2218.88	33.378	0.364	NULL	NULL	NULL	2347.3	40.561	0.228
K15-307	97.5	1470.98	15.695	0.0107	1546.97	0.0111	1923.89	36.274	0.0276	2219.91	31.069	0.225	2246.93	20.516	0.161	2343.46	40.46	0.162
K15-307	102.5	1472.29	13.809	0.00241	1540.69	0.00425	1930.06	32.302	0.0206	2219.29	30.017	0.0754	2253.74	20.62	0.0725	2343.12	37.91	0.0835
K15-307	102.5	NULL	NULL	NULL	1546.8	0.000412	1922.04	40.719	0.0709	2218.33	32.995	0.351	NULL	NULL	NULL	2349.37	39.482	0.216
K15-307	102.5	NULL	NULL	NULL	1548.17	0.00144	1930.39	46.42	0.115	2220.82	30.842	0.277	2242.89	20.953	0.197	2352.86	39.272	0.172
K15-307	107.5	NULL	NULL	NULL	1561.72	0.000458	1928.97	45.995	0.093	2221.53	30.07	0.275	NULL	NULL	NULL	2350.22	38.823	0.174
K15-307	107.5	NULL	NULL	NULL	1549.91	0.00068	1931.29	44.993	0.0964	2221.02	29.736	0.355	2243.32	21.043	0.251	2346.95	37.841	0.248
K15-307	107.5	NULL	NULL	NULL	1558.46	0.000225	1925.28	45.506	0.126	2221.12	30.234	0.415	NULL	NULL	NULL	2345.51	38.275	0.283
K15-307	112.5	NULL	NULL	NULL	1559.24	0.000317	1930.68	45.052	0.115	2220.41	31.425	0.473	NULL	NULL	NULL	2348.66	38.746	0.334
K15-307	112.5	NULL	NULL	NULL	1547.07	0.000535	1914.9	37.187	0.0684	2217.45	32.817	0.304	NULL	NULL	NULL	2349.73	39.192	0.188
K15-307	112.5	NULL	NULL	NULL	1546.72	0.000837	1920.96	39.841	0.0573	2215.71	33.444	0.228	NULL	NULL	NULL	2345	38.591	0.136
K15-307	117.5	NULL	NULL	NULL	1539.21	0.00912	1909.59	30.522	0.124	2215.26	34.251	0.26	2241.39	19.691	0.17	2346.43	39.956	0.189

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-307	117.5	NULL	NULL	NULL	1539.87	0.00301	1910.83	33.532	0.206	2207.87	31.032	0.189	2245.11	19.571	0.0978	2351.28	41.087	0.116
K15-307	117.5	NULL	NULL	NULL	1547.74	0.0122	1912.43	28.971	0.107	2209.35	35.558	0.243	2248.66	20.872	0.158	2345.62	39.792	0.183
K15-307	122.5	NULL	NULL	NULL	1549.71	0.00742	1912.66	31.5	0.117	2211.09	35.104	0.207	2247.82	20.452	0.128	2343.72	38.516	0.147
K15-307	122.5	NULL	NULL	NULL	1558.63	0.00521	1913.22	37.994	0.0625	2207.88	29.209	0.0842	2255.38	18.093	0.0991	2346.46	37.246	0.0979
K15-307	122.5	NULL	NULL	NULL	1560.39	0.00934	1913.48	33.506	0.0719	2209.79	34.553	0.21	2252.12	21.537	0.118	2354.19	38.622	0.136
K15-307	125.5	NULL	NULL	NULL	NULL	NULL	1910.13	31.867	0.169	2209.27	34.495	0.261	NULL	NULL	NULL	2346.37	39.47	0.149
K15-307	125.5	NULL	NULL	NULL	1550.06	0.00549	1950.47	49.096	0.0382	2207.71	33.909	0.199	2244.84	19.886	0.102	2347.55	37.435	0.123
K15-307	125.5	NULL	NULL	NULL	NULL	NULL	1927.04	45.179	0.0354	2207.78	34.614	0.221	NULL	NULL	NULL	2345.24	39.338	0.12
K15-307	128.5	NULL	NULL	NULL	1559.29	0.00721	1919.76	46.82	0.036	2211.43	34.127	0.216	2244.83	19.629	0.12	2346.48	38.689	0.153
K15-307	128.5	NULL	NULL	NULL	1551.78	0.0161	1942.99	49.698	0.0613	2211.44	34.966	0.274	2249.47	21.379	0.151	2350.36	38.098	0.192
K15-307	128.5	NULL	NULL	NULL	1557.71	0.0136	1954.3	44.712	0.0593	2210.65	34.174	0.166	2254.13	18.11	0.138	2349.07	37.008	0.148
K15-307	131.5	NULL	NULL	NULL	1548.72	0.0252	1953.76	44.827	0.0839	2212.32	34.829	0.233	2252.71	19.41	0.174	2347.26	36.719	0.196
K15-307	131.5	NULL	NULL	NULL	NULL	NULL	1931.7	46.395	0.0993	2212.6	34.805	0.237	NULL	NULL	NULL	2346.57	39.852	0.147
K15-307	131.5	1488.56	18.473	0.0226	1562.48	0.0273	1916.67	28.55	0.0556	2213.88	29.01	0.0714	2248.47	14.134	0.0592	2357.95	32.641	0.0548
K15-307	134.5	NULL	NULL	NULL	NULL	NULL	1918.55	35.361	0.0678	2213.38	28.214	0.0839	2258.89	20.345	0.0592	2344.79	34.849	0.0556
K15-307	134.5	1498.05	16.383	0.019	1566.47	0.024	1914.79	24.346	0.0471	2214.75	24.488	0.0541	NULL	NULL	NULL	2322.22	35.451	0.031
K15-307	134.5	NULL	NULL	NULL	1545.46	0.00726	1925.8	47.721	0.0572	2209.14	32.916	0.14	2251.57	19.678	0.0796	2345.77	35.79	0.104
K15-307	137.5	NULL	NULL	NULL	1546.11	0.00356	1921.66	46.862	0.0646	2206.43	32.04	0.21	2249.09	21.467	0.0683	2347.83	36.728	0.136
K15-307	137.5	NULL	NULL	NULL	1544.94	0.0275	NULL	NULL	NULL	NULL	NULL	NULL	2252.75	20.657	0.135	2335.15	36.864	0.158
K15-307	137.5	NULL	NULL	NULL	1549.84	0.0158	1945.04	48.753	0.0641	2205.08	32.293	0.142	2254.09	17.721	0.11	2344.9	37.635	0.121
K15-307	140.5	NULL	NULL	NULL	1545.57	0.00588	1920.62	46.503	0.0749	2210.77	32.145	0.0553	2252.88	17.938	0.0571	2343.22	37.666	0.0564
K15-307	140.5	1470.14	11.235	0.00664	1547.52	0.00527	1936.33	41.035	0.0369	2217.86	32.369	0.0252	2250.36	16.513	0.0294	2333.97	36.856	0.0275
K15-307	140.5	NULL	NULL	NULL	1548.99	0.0213	1957.35	44.251	0.0659	NULL	NULL	NULL	2257.06	20.441	0.156	2348.14	36.99	0.138
K15-307	143.5	NULL	NULL	NULL	1563.97	0.00507	1921.11	36.073	0.0388	2213.99	31.615	0.0358	2240.07	11.432	0.0264	2327.3	34.437	0.0214
K15-307	143.5	1498.26	14.44	0.00846	1548.35	0.0117	NULL	NULL	NULL	2211.39	28.268	0.042	2245.01	12.73	0.038	2334.76	30.221	0.0359
K15-307	143.5	NULL	NULL	NULL	1538.28	0.000783	1902.58	27.365	0.00637	NULL	NULL	NULL	2246.61	15.984	0.00248	2356.86	38.368	0.00562
K15-307	146.5	NULL	NULL	NULL	1540.1	0.000372	1910.62	35.245	0.00133	NULL	NULL	NULL	NULL	NULL	NULL	2350.49	39.073	0.00584
K15-307	146.5	NULL	NULL	NULL	1556.36	0.0124	1910.91	28.023	0.0667	2205.88	33.956	0.334	NULL	NULL	NULL	2345.1	39.273	0.228
K15-307	146.5	1473.15	12.336	0.00518	1558.02	0.00994	1913.96	32.154	0.0292	2209.7	33.845	0.119	2251.48	19.19	0.0948	2341.69	39.119	0.0978
K15-307	149.5	NULL	NULL	NULL	1558.45	0.0129	1912.73	39.726	0.0329	2209.87	34.029	0.137	2251.24	19.409	0.119	2341.45	37.323	0.124
K15-307	149.5	NULL	NULL	NULL	1549.42	0.0166	NULL	NULL	NULL	2211.62	34.621	0.158	2251.23	19.267	0.141	2344.67	37.531	0.144
K15-307	149.5	NULL	NULL	NULL	1559.01	0.0226	NULL	NULL	NULL	2214.5	34.426	0.132	2251.31	18.927	0.175	2340.88	38.882	0.157
K15-307	152.6	NULL	NULL	NULL	1550.06	0.00548	1911.25	23.108	0.0443	2216.08	33.265	0.165	2249.97	19.975	0.133	2347.26	38.842	0.141
K15-307	152.6	NULL	NULL	NULL	1558.8	0.000563	1918.06	39.062	0.0294	2215.74	33.354	0.193	NULL	NULL	NULL	2344.96	39.273	0.113
K15-307	152.6	NULL	NULL	NULL	1554.85	0.000994	1912.75	33.479	0.0485	2217.07	34.16	0.223	NULL	NULL	NULL	2344.66	39.061	0.141
K15-307	155.5	1470.36	17.678	0.0021	1547.72	0.00148	1911.73	33.391	0.0283	2216.21	33.079	0.225	NULL	NULL	NULL	2347.71	40.042	0.16
K15-307	155.5	1473.18	13.909	0.00792	1564.74	0.0101	1917.9	30.14	0.0319	2215.62	33.909	0.162	2241.57	20.654	0.108	2346.53	39.388	0.126

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-307	155.5	NULL	NULL	NULL	1557.12	0.0241	1958.78	21.9	0.0474	NULL	NULL	NULL	2254.65	20.297	0.183	2346.67	36.281	0.178
K15-307	158.5	NULL	NULL	NULL	NULL	NULL	1909.9	30.078	0.229	2209.1	31.631	0.217	2251.37	19.602	0.139	2344.5	38.207	0.161
K15-307	158.5	NULL	NULL	NULL	1545.08	0.000535	1910.19	34.098	0.102	2216.97	34.166	0.383	NULL	NULL	NULL	2346.76	40.377	0.24
K15-307	158.5	NULL	NULL	NULL	1555.13	0.000454	1909.52	33.485	0.118	2216.58	33.917	0.325	NULL	NULL	NULL	2351.33	40.03	0.197
K15-307	161.5	1470.24	14.151	0.00227	1563.85	0.000597	1911.19	33.62	0.045	2215.91	32.01	0.17	NULL	NULL	NULL	2346.94	36.545	0.1
K15-307	161.5	NULL	NULL	NULL	1558.22	0.000613	1910.1	31.574	0.117	2212.6	33.042	0.257	NULL	NULL	NULL	2348.64	37.401	0.152
K15-307	161.5	NULL	NULL	NULL	NULL	NULL	1910.74	33.755	0.0823	2215.57	33.703	0.227	NULL	NULL	NULL	2343.45	39.664	0.13
K15-307	164.5	1472.59	14.733	0.00203	1568.72	0.00115	1915.42	38.247	0.0201	2216.8	31.812	0.0567	NULL	NULL	NULL	2342.47	38.536	0.0267
K15-307	164.5	1483.73	17.98	0.000398	1548.88	0.000398	1916.29	30.553	0.0214	2216.99	31.605	0.15	NULL	NULL	NULL	2356.58	38.131	0.0863
K15-307	164.5	1472.33	15.095	0.000664	1540.94	0.000582	1912.51	33.501	0.0208	2217.78	31.436	0.183	NULL	NULL	NULL	2346.95	37.215	0.107
K15-307	167.5	NULL	NULL	NULL	1552.23	0.000433	1911.8	36.415	0.127	2218.15	33.002	0.43	NULL	NULL	NULL	2345.9	40.26	0.283
K15-307	167.5	NULL	NULL	NULL	NULL	NULL	1919.47	42.173	0.026	2217.98	31.592	0.238	NULL	NULL	NULL	2352.92	38.584	0.139
K15-307	167.5	1471.2	14.679	0.00184	1554.47	0.0022	1918.67	37.668	0.015	2214.98	33.61	0.156	NULL	NULL	NULL	2349.03	39.174	0.103
K15-307	170.5	NULL	NULL	NULL	1559.84	0.000825	1919.29	34.397	0.0135	2217.04	32.362	0.138	NULL	NULL	NULL	2352.94	37.318	0.0863
K15-307	170.5	1473.99	13.484	0.00565	1544.12	0.00583	1918.12	33.5	0.0189	2216.8	33.924	0.217	NULL	NULL	NULL	2345.9	37.983	0.146
K15-307	170.5	NULL	NULL	NULL	1562.53	0.0077	1913.13	30.102	0.0342	2215.5	32.298	0.114	2253.19	20.564	0.105	2342.33	38.95	0.136
K15-307	173.5	1496.92	14.037	0.00603	NULL	NULL	1912.77	31.185	0.0235	2217.43	33.956	0.135	2246.42	20.488	0.106	2346.99	40.754	0.117
K15-307	173.5	NULL	NULL	NULL	NULL	NULL	1920.65	42.307	0.00397	NULL	NULL	NULL	2266.37	16.22	0.000898	2310.61	25.598	0.0105
K15-307	173.5	1473.66	17.079	0.000624	1539.79	0.000419	1918.77	31.17	0.00141	NULL	NULL	NULL	2241.2	9.637	0.000895	2355.54	34.827	0.00678
K15-307	176.5	1498.4	17.572	0.000381	1540.88	0.00135	1920.52	36.34	0.0112	NULL	NULL	NULL	2251.5	17.612	0.14	2338.75	40.86	0.186
K15-307	176.5	NULL	NULL	NULL	1542.71	0.00106	1912.62	36.503	0.0502	2217.87	32.101	0.345	NULL	NULL	NULL	2345.88	38.654	0.24
K15-307	176.5	1497.47	17.024	0.0075	1547.79	0.00908	1924.97	29.289	0.0176	2217.25	31.732	0.165	2246.29	20.062	0.11	2352.9	39.221	0.138
K15-307	179.5	1472.61	20.965	0.000677	1561.8	0.00151	1916.39	34.19	0.0145	2218.4	31.768	0.217	NULL	NULL	NULL	2352.5	38.462	0.145
K15-307	179.5	1496.73	17.038	0.000701	1554.9	0.00255	1925.73	39.479	0.0148	2216.46	32.633	0.193	2240.08	18.887	0.118	2346.67	39.313	0.138
K15-307	179.5	1490.08	16.697	0.0162	1557.96	0.0191	1925.19	42.272	0.0334	2220.66	29.274	0.112	2251.28	19.94	0.114	2341.58	39.958	0.172
K15-307	182.5	1484.53	16.752	0.00049	1557.81	0.00154	1914.89	34.302	0.013	2218.33	29.965	0.078	2252.09	19.004	0.123	2344.1	39.911	0.205
K15-307	182.5	1476.49	11.274	0.000658	1561.58	0.00057	1909.27	33.378	0.0146	2218.61	29.972	0.106	2251.08	20.608	0.0908	2350.49	40.162	0.135
K15-307	182.5	NULL	NULL	NULL	1561.65	0.000854	1914.13	32.104	0.0231	2219.16	31.925	0.225	NULL	NULL	NULL	2349.75	38.904	0.141
K15-307	185.5	1491.14	17.141	0.000429	1560.86	0.000658	1912.39	28.009	0.0269	2217.04	30.823	0.162	2242.44	20.328	0.0989	2344.81	39.261	0.115
K15-307	185.5	NULL	NULL	NULL	1541.06	0.00497	1910.35	35.404	0.0293	2215.55	32.531	0.187	NULL	NULL	NULL	2352.12	38.116	0.13
K15-307	185.5	1470.72	12.941	0.006	1561.19	0.00296	1909.79	31.286	0.0485	2216.3	33.358	0.248	NULL	NULL	NULL	2351.25	39.74	0.178
K15-307	188.5	1470.96	10.499	0.000785	1546.01	0.00101	1914.12	32.352	0.0323	NULL	NULL	NULL	2251.49	16.936	0.0939	2334.82	37.554	0.136
K15-307	188.5	NULL	NULL	NULL	1566.66	0.000886	1912.67	32.858	0.0301	2210.89	27.163	0.0107	2253	18.001	0.0456	2338.53	39.656	0.0951
K15-307	188.5	NULL	NULL	NULL	NULL	NULL	1909.51	32.834	0.42	2201.96	35.752	0.286	NULL	NULL	NULL	2342.15	38.701	0.121
K15-307	191.5	1498.78	17.136	0.00459	1558.8	0.00404	1915.66	30.413	0.0107	2198.61	20.082	0.00623	2253.85	17.45	0.0611	2337.9	38.649	0.127
K15-307	191.5	1475.75	16.692	0.00119	1537.86	0.0014	1931.47	28.908	0.00945	NULL	NULL	NULL	2252.09	17.373	0.0801	2340.9	39.95	0.139
K15-307	191.5	1479.56	12.485	0.000552	1568.67	0.000704	1912.83	34.026	0.0183	2221.99	28.666	0.0872	2251.34	19.827	0.121	2341.7	40.923	0.16

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-307	194.5	1499.93	17.794	0.0242	1553.13	0.028	1915.56	34.631	0.0345	2227.58	23.194	0.0607	2251.67	18.871	0.134	2340.3	40.867	0.188
K15-307	194.5	1489.26	14.538	0.0078	1564.88	0.00921	1909.18	33.896	0.0192	2218.76	31.183	0.218	NULL	NULL	NULL	2346.79	39.67	0.159
K15-307	194.5	NULL	NULL	NULL	1554.27	0.00482	1920.05	37.563	0.0288	2218.46	31.618	0.207	2242.15	20.922	0.14	2347.91	39.508	0.177
K15-307	197.5	NULL	NULL	NULL	1551.67	0.000706	1910.88	33.383	0.0753	2217.59	33.514	0.359	NULL	NULL	NULL	2347.61	39.962	0.243
K15-307	197.5	NULL	NULL	NULL	1540.22	0.000531	1924.29	27.935	0.000877	NULL	NULL	NULL	2252.58	15.642	0.000781	2357.76	26.934	0.00742
K15-307	197.5	1473.44	15.301	0.0049	1539.5	0.00242	1936.2	46.587	0.0445	2208.78	27.413	0.141	2248.07	21.696	0.0376	2351.07	35.371	0.0803
K15-307	200.5	NULL	NULL	NULL	1548.22	0.00735	1946.1	38.465	0.017	2211.3	31.732	0.0657	2252.51	17.306	0.0596	2342.47	37.009	0.0866
K15-307	200.5	1499.85	12.859	0.00455	1567.56	0.00667	1944.15	24.024	0.0218	2214.09	31.344	0.0473	2247.34	15.946	0.0345	2354.01	40.836	0.0324
K15-307	200.5	1485.22	19.245	0.00652	1545.53	0.00566	1936.9	25.664	0.0311	2219.35	32.17	0.0561	2253.51	17.955	0.0423	2339.04	33.626	0.0472
K15-307	203.6	1497.89	16.865	0.0131	1566.19	0.0149	1941.63	30.384	0.0325	2203.35	29.257	0.0411	2258.5	18.615	0.0332	2337.89	33.003	0.035
K15-307	203.6	1499.45	12.709	0.0151	1567.46	0.0168	1943.49	35.722	0.0311	2208.45	33.275	0.0414	2240.87	15.532	0.0283	2344.11	27.582	0.0358
K15-307	203.6	NULL	NULL	NULL	NULL	NULL	1928.3	48.812	0.187	2207.88	20.608	0.128	2257.23	19.886	0.129	2350.62	36.818	0.121
K15-307	206.5	1470.96	11.619	0.000649	1560.38	0.000689	1912.67	40.107	0.0233	2208.09	24.306	0.121	2243.33	20.851	0.0128	2353.3	35.928	0.0282
K15-307	206.5	NULL	NULL	NULL	1553.66	0.000591	1918.8	41.889	0.154	2207.96	25.3	0.269	2258.3	19.936	0.0983	2355.62	38.047	0.123
K15-307	206.5	NULL	NULL	NULL	1548.82	0.00454	1941.25	44.888	0.0718	2208.33	23.65	0.0951	2257.24	19.865	0.125	2354.35	34.285	0.121
K15-307	209.6	1490.4	14.144	0.00439	1545.16	0.00233	1943.05	33.782	0.0885	2213.56	28.6	0.0589	2243.25	14.291	0.0216	2351.44	36.366	0.0173
K15-307	209.6	NULL	NULL	NULL	1567.41	0.000554	1914.6	38.959	0.0529	2215.52	31.806	0.134	NULL	NULL	NULL	2347.11	36.228	0.0675
K15-307	209.6	NULL	NULL	NULL	1540.53	0.00105	1939.96	44.086	0.081	2213.55	33.355	0.238	NULL	NULL	NULL	2347.54	40.031	0.146
K15-307	212.5	1473.38	12.712	0.00145	1564	0.00185	1917.89	44.31	0.0503	2210.44	32.535	0.162	2254.56	20.214	0.0884	2350.56	38.056	0.117
K15-307	212.5	NULL	NULL	NULL	1566.4	0.000241	1911.39	34	0.129	2210.11	32.864	0.348	NULL	NULL	NULL	2349.62	38.802	0.194
K15-307	212.5	NULL	NULL	NULL	1539.36	0.00314	1911.22	31.847	0.044	2210.63	33.672	0.28	NULL	NULL	NULL	2346.44	38.558	0.16
K15-307	215.8	NULL	NULL	NULL	1567.4	0.000995	1913.35	31.313	0.0353	2210.87	34.075	0.238	NULL	NULL	NULL	2349.03	38.044	0.15
K15-307	215.8	NULL	NULL	NULL	1566.67	0.000293	1912.31	34.61	0.18	2210.79	33.813	0.276	NULL	NULL	NULL	2346.92	38.528	0.151
K15-307	215.8	NULL	NULL	NULL	1562.35	0.000264	1913.96	35.437	0.0969	2210.44	30.246	0.211	NULL	NULL	NULL	2342.69	39.902	0.111
K15-307	218.5	NULL	NULL	NULL	1547.3	0.000221	1914.1	36.157	0.089	2217.09	33.043	0.32	NULL	NULL	NULL	2348.76	38.819	0.204
K15-307	218.5	NULL	NULL	NULL	1546.26	0.000219	1939.24	41.64	0.0696	2217.23	32.345	0.283	NULL	NULL	NULL	2346.56	38.494	0.174
K15-307	218.5	NULL	NULL	NULL	1538.22	0.00026	1911.17	34.407	0.14	2216.13	33.851	0.344	NULL	NULL	NULL	2347.66	39.56	0.211
K15-307	221.5	1472.91	18.567	0.0054	1538.49	0.00122	1941.5	36.991	0.061	2216.88	32.193	0.203	NULL	NULL	NULL	2352.21	38.383	0.121
K15-307	221.5	1472.79	17.186	0.00236	1552.24	0.000739	1920.98	37.804	0.0391	2216.33	32.789	0.248	NULL	NULL	NULL	2352.4	38.486	0.149
K15-307	221.5	NULL	NULL	NULL	1549.68	0.000315	1927.13	44.683	0.0271	2217.82	31.392	0.263	NULL	NULL	NULL	2350.62	37.249	0.159
K15-307	224.5	1472.44	14.167	0.00395	1562.15	0.00119	1914.8	33.095	0.0722	2218.08	33.203	0.373	NULL	NULL	NULL	2348.63	39.898	0.258
K15-307	224.5	NULL	NULL	NULL	1555.23	0.000373	1939.46	40.521	0.0327	2216.79	32.118	0.188	NULL	NULL	NULL	2351.43	37.471	0.11
K15-307	224.5	NULL	NULL	NULL	1552.32	0.000508	1920.3	39.747	0.0345	2216.64	32.445	0.228	NULL	NULL	NULL	2348.95	38.198	0.143
K15-307	227.5	NULL	NULL	NULL	NULL	NULL	1922.14	41.473	0.0436	2216.93	32.113	0.284	NULL	NULL	NULL	2349.95	38.104	0.173
K15-307	227.5	1472.42	14.598	0.00364	NULL	NULL	1946.19	45.661	0.0384	2218.3	31.693	0.0659	2253.33	17.272	0.0687	2344.32	38.263	0.0777
K15-307	227.5	NULL	NULL	NULL	NULL	NULL	1934.2	45.857	0.0917	2213.62	33.262	0.221	NULL	NULL	NULL	2347.72	38.227	0.132
K15-307	230.5	NULL	NULL	NULL	1549.64	0.000696	1929.87	43.757	0.0371	2216.16	32.773	0.229	2243.92	18.964	0.116	2346.66	37.708	0.156

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-307	230.5	NULL	NULL	NULL	1548.6	0.000588	1922.21	40.656	0.0445	2218.78	32.191	0.281	NULL	NULL	NULL	2348.77	38.622	0.183
K15-307	230.5	1488.66	19.715	0.00917	1556.66	0.00525	1940.75	38.409	0.029	2219.56	29.966	0.105	2248.39	20.028	0.0764	2341.18	39.75	0.112
K15-307	235.5	1476.74	12.373	0.00109	1558.7	0.00168	1922.03	34.054	0.0135	NULL	NULL	NULL	2253.9	16.615	0.0719	2332.98	39.079	0.12
K15-307	235.5	NULL	NULL	NULL	NULL	NULL	1918.68	40.126	0.162	2222.62	29.842	0.306	NULL	NULL	NULL	2348.89	39.477	0.191
K15-307	235.5	NULL	NULL	NULL	1546.18	0.0016	1923.03	42.894	0.0957	2223.71	27.094	0.318	NULL	NULL	NULL	2348.96	39.039	0.203
K15-307	240.5	NULL	NULL	NULL	NULL	NULL	1929.41	47.177	0.218	2220	31.21	0.342	NULL	NULL	NULL	2349.74	39.394	0.211
K15-307	240.5	NULL	NULL	NULL	1542.33	0.00128	1936.77	43.702	0.087	2219.79	30.692	0.284	NULL	NULL	NULL	2347.16	38.534	0.174
K15-307	240.5	NULL	NULL	NULL	1558.83	0.000654	1922.5	42.99	0.0405	2220.22	30.318	0.322	NULL	NULL	NULL	2348.64	38.315	0.204
K15-307	245.5	1470.73	14.726	0.00328	1558.76	0.000581	1919.28	39.134	0.0336	2221.03	29.89	0.252	NULL	NULL	NULL	2352	37.944	0.164
K15-307	245.5	NULL	NULL	NULL	1546.97	0.000566	1940.74	38.721	0.0466	2220.95	28.635	0.21	2243.77	19.793	0.139	2350.07	39.498	0.162
K15-307	245.5	NULL	NULL	NULL	1559.29	0.000885	1917.97	38.532	0.0225	2220.03	30.503	0.25	2243.86	20.186	0.165	2351.38	38.598	0.167
K15-307	250.5	NULL	NULL	NULL	1557.41	0.000545	1910.4	36.323	0.0508	2221.2	29.53	0.34	NULL	NULL	NULL	2351.94	37.424	0.224
K15-307	250.5	NULL	NULL	NULL	1559.47	0.000492	1918.71	44.485	0.0114	2221.74	26.37	0.113	NULL	NULL	NULL	2346.28	37.937	0.0848
K15-307	250.5	NULL	NULL	NULL	NULL	NULL	1927.41	44.456	0.25	2221.08	29.775	0.284	NULL	NULL	NULL	2351.86	39.16	0.161
K15-307	255.5	1473.34	14.657	0.00208	1550.21	0.000329	1911.85	33.607	0.0534	2220.39	31.019	0.334	NULL	NULL	NULL	2347.19	39.684	0.212
K15-307	255.5	1477.28	19.052	0.000948	1556.33	0.0013	1925.93	39.179	0.00927	2219.24	29.313	0.181	NULL	NULL	NULL	2353.15	35.862	0.117
K15-307	255.5	1472.36	18.072	0.00052	1538.8	0.000337	1923.72	46.981	0.0241	2218.13	31.251	0.211	NULL	NULL	NULL	2350.92	37.955	0.127
K15-307	260.5	1485.22	13.95	0.000263	1548.61	0.000272	1926.3	36.789	0.0186	2218.43	30.668	0.21	NULL	NULL	NULL	2352.33	36.662	0.125
K15-307	260.5	NULL	NULL	NULL	1560.87	0.00029	1911.27	34.085	0.16	2216.65	34.115	0.374	NULL	NULL	NULL	2349.71	40.637	0.237
K15-307	260.5	NULL	NULL	NULL	1543.39	0.000393	1909.49	33.011	0.141	2218.92	32.806	0.314	NULL	NULL	NULL	2349.53	39.282	0.202
K15-307	265.5	1471.9	13.918	0.000589	NULL	NULL	1916.1	32.242	0.0147	2221.54	29.105	0.211	NULL	NULL	NULL	2351.32	37.382	0.139
K15-307	265.5	NULL	NULL	NULL	1543.49	0.000463	1928.33	44.067	0.0313	2219.68	30.305	0.229	NULL	NULL	NULL	2348.96	37.707	0.143
K15-307	265.5	NULL	NULL	NULL	1543.52	0.000439	1937.09	37.061	0.0243	2219.07	32.877	0.32	NULL	NULL	NULL	2349.94	39.636	0.201
K15-307	270.5	1472.68	10.951	0.00079	1558.84	0.000484	1908.69	31.107	0.0134	2219.64	31.633	0.358	NULL	NULL	NULL	2350.14	39.312	0.231
K15-307	270.5	1472.34	10.62	0.00127	1546.31	0.000801	1915	36.244	0.00977	2218.52	32.812	0.308	NULL	NULL	NULL	2349.79	38.918	0.198
K15-307	270.5	NULL	NULL	NULL	1554.04	0.000576	1909.67	32.288	0.0273	2215.98	33.976	0.38	NULL	NULL	NULL	2346.71	39.307	0.24
K15-307	275.5	NULL	NULL	NULL	1538.8	0.0022	1912.1	38.183	0.0587	2208.79	29.997	0.0947	2243.08	16.079	0.0302	2343.5	38.67	0.0444
K15-307	275.5	1471.43	11.823	0.00199	1561.48	0.000736	1906.59	34.991	0.0139	2221.91	29.397	0.317	NULL	NULL	NULL	2349.63	38.214	0.205
K15-307	275.5	NULL	NULL	NULL	1544.41	0.000593	1911.12	31.443	0.0119	2219.69	31.717	0.305	NULL	NULL	NULL	2347.86	39.351	0.196
K15-327	0	NULL	NULL	NULL	1542.76	0.000667	1919.3	34.486	0.0127	2214.08	34.154	0.376	NULL	NULL	NULL	2350.01	38.474	0.227
K15-327	7	NULL	NULL	NULL	1544.11	0.000691	1941.45	36.931	0.0298	2214.43	33.902	0.277	NULL	NULL	NULL	2349.08	38.265	0.174
K15-327	10	NULL	NULL	NULL	1543.96	0.000762	1939.44	40.213	0.0301	2214.21	33.412	0.246	NULL	NULL	NULL	2349.91	37.463	0.154
K15-327	10.3	1473.54	16.146	0.00033	1556.71	0.00043	1916.75	35.853	0.0126	2217.82	32.497	0.232	NULL	NULL	NULL	2352.2	38.794	0.137
K15-327	13.1	1470.08	9.148	0.00156	1545.41	0.000534	1909.09	35.991	0.0241	2215.08	33.887	0.35	NULL	NULL	NULL	2347.81	38.502	0.214
K15-327	16.1	NULL	NULL	NULL	NULL	NULL	1909.71	33.155	0.165	2204.19	33.254	0.228	NULL	NULL	NULL	2343.24	37.754	0.143
K15-327	21.1	1481.25	9.277	0.000402	1543.75	0.000355	1916.39	35.543	0.0114	2217.7	31.892	0.376	NULL	NULL	NULL	2350.1	37.758	0.24
K15-327	26.1	NULL	NULL	NULL	1568.88	0.000521	1910.39	35.108	0.077	2217.66	32.722	0.263	NULL	NULL	NULL	2346.9	38.956	0.167

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-327	31.3	1473.64	10.597	0.001	1552.15	0.00188	1906.5	40.031	0.0183	2219.1	31.884	0.341	NULL	NULL	NULL	2352.25	38.04	0.207
K15-327	36.1	NULL	NULL	NULL	1550.71	0.000618	1912.87	30.9	0.012	2218.39	32.46	0.319	NULL	NULL	NULL	2349.4	37.996	0.202
K15-327	38.1	NULL	NULL	NULL	NULL	NULL	1918.15	41.638	0.0105	2217.41	33.657	0.394	NULL	NULL	NULL	2348.37	39.97	0.257
K15-327	41.1	NULL	NULL	NULL	1557.07	0.000449	1907.42	33.935	0.0323	2216.92	32.692	0.393	NULL	NULL	NULL	2349.72	38.023	0.248
K15-327	44.1	NULL	NULL	NULL	1556.18	0.00571	1911.96	28.389	0.045	2213.89	32.956	0.251	NULL	NULL	NULL	2349.76	38.153	0.154
K15-327	47.1	NULL	NULL	NULL	1547.86	0.0012	1920.51	38.774	0.0621	2212.71	34.415	0.321	NULL	NULL	NULL	2347.79	39.119	0.196
K15-327	49.1	NULL	NULL	NULL	1560.7	0.000277	1912.77	37.103	0.0685	2214.85	33.619	0.306	NULL	NULL	NULL	2351.54	38.537	0.19
K15-327	0	NULL	NULL	NULL	1563.79	0.000555	1916.93	37.246	0.0453	2214.89	32.258	0.202	NULL	NULL	NULL	2345.28	37.898	0.117
K15-327	49.9	NULL	NULL	NULL	1551.13	0.000582	1918.89	42.695	0.021	2217.76	32.379	0.336	NULL	NULL	NULL	2347.77	39.224	0.207
K15-327	51.1	1471.64	12.748	0.000893	1554.51	0.000947	1926.25	44.142	0.012	2216.97	32.322	0.325	NULL	NULL	NULL	2349.17	38.543	0.21
K15-327	54.1	NULL	NULL	NULL	1563.05	0.0037	1911.87	34.14	0.0277	2217.09	32.744	0.352	NULL	NULL	NULL	2349.74	39.072	0.213
K15-327	57.1	1470.92	13.141	0.00173	1554.46	0.00113	1941.81	47.279	0.0258	2218.66	31.584	0.22	NULL	NULL	NULL	2349.93	37.257	0.133
K15-327	60.1	NULL	NULL	NULL	1557.26	0.000682	1919.01	47.214	0.022	2219.3	31.313	0.36	NULL	NULL	NULL	2351.47	38.528	0.235
K15-327	63.1	NULL	NULL	NULL	1547.66	0.000476	1912.07	36.688	0.0679	2218.74	31.959	0.333	NULL	NULL	NULL	2350.8	39.358	0.206
K15-327	65.4	1473.69	13.495	0.00176	1548.03	0.000883	1938.71	45.269	0.0428	2217.05	32.248	0.279	NULL	NULL	NULL	2350.43	38.037	0.172
K15-327	66	NULL	NULL	NULL	NULL	NULL	1916.23	44.471	0.0757	2211.7	34.101	0.31	NULL	NULL	NULL	2350	38.002	0.186
K15-327	69.1	NULL	NULL	NULL	1554.75	0.0011	1935.24	43.52	0.0207	2218.73	31.703	0.398	NULL	NULL	NULL	2348.51	39.113	0.246
K15-327	72.1	NULL	NULL	NULL	1561.63	0.000629	1920.63	45.072	0.0172	2216.07	32.58	0.258	NULL	NULL	NULL	2347.78	39.072	0.153
K15-327	75.1	NULL	NULL	NULL	1553.76	0.0004	1910.71	34.121	0.111	2216.91	33.769	0.215	NULL	NULL	NULL	2345.47	38.472	0.132
K15-327	78.3	NULL	NULL	NULL	1556.38	0.000489	1940.48	38.146	0.0363	2218.19	31.237	0.178	NULL	NULL	NULL	2347.45	38.101	0.111
K15-327	81.2	NULL	NULL	NULL	1558.45	0.000273	1910.83	35.037	0.18	2218.14	32.084	0.362	NULL	NULL	NULL	2349.08	39.05	0.23
K15-327	84	NULL	NULL	NULL	NULL	NULL	1912.39	36.452	0.133	2214.94	33.493	0.302	NULL	NULL	NULL	2347.98	38.179	0.189
K15-327	87	NULL	NULL	NULL	NULL	NULL	1912.15	37.044	0.228	2208.96	34.623	0.318	NULL	NULL	NULL	2346.66	38.742	0.199
K15-327	90.2	NULL	NULL	NULL	1545.95	0.000786	1911.08	34.43	0.113	2218	31.872	0.354	NULL	NULL	NULL	2350.4	38.635	0.229
K15-327	0	NULL	NULL	NULL	1556.2	0.00047	1905.69	36.66	0.021	2221.25	29.394	0.276	NULL	NULL	NULL	2349.61	37.526	0.168
K15-327	93.1	NULL	NULL	NULL	NULL	NULL	1920.28	44.083	0.0661	2214.83	33.14	0.209	NULL	NULL	NULL	2348.02	37.392	0.121
K15-327	96.1	NULL	NULL	NULL	1560.94	0.000423	1918.92	43.305	0.0743	2219.22	30.432	0.297	NULL	NULL	NULL	2350.63	37.972	0.184
K15-327	99.1	1472.13	30.789	0.000164	1537.07	0.000546	1919.36	36.895	0.0203	2220.04	27.551	0.156	NULL	NULL	NULL	2345.75	39.148	0.129
K15-327	102.1	1474.77	16.1	0.00104	1564.92	0.000641	1938.05	42.362	0.0254	2218.85	28.232	0.102	2245.82	21.076	0.0675	2346.41	37.272	0.0895
K15-327	105.1	NULL	NULL	NULL	NULL	NULL	1929.26	40.83	0.112	2219.46	30.975	0.273	NULL	NULL	NULL	2349.87	38.969	0.163
K15-327	108.1	NULL	NULL	NULL	NULL	NULL	1914.99	37.643	0.0828	2215.87	33.49	0.284	NULL	NULL	NULL	2352.31	38.812	0.175
K15-327	111.1	NULL	NULL	NULL	1564.73	0.000168	1926.34	42.216	0.0903	2216.5	33.47	0.267	NULL	NULL	NULL	2344.86	39.453	0.17
K15-327	114.3	NULL	NULL	NULL	NULL	NULL	1930.48	45.817	0.253	2208.32	21.557	0.00571	2265.11	14.966	0.0155	2333.05	35.736	0.0887
K15-327	117.2	NULL	NULL	NULL	1542.16	0.0013	1938.73	39.324	0.0787	2214.77	33.085	0.286	NULL	NULL	NULL	2350.63	37.527	0.174
K15-327	120.1	NULL	NULL	NULL	1548.35	0.000809	1927.14	38.01	0.0893	2218.41	33.158	0.349	NULL	NULL	NULL	2349.27	40.25	0.223
K15-327	123.2	NULL	NULL	NULL	1551.21	0.000827	1919.29	38.489	0.0337	2215.48	33.843	0.427	NULL	NULL	NULL	2349.27	39.11	0.265
K15-327	126.1	NULL	NULL	NULL	1540.69	0.00692	1929.47	43.486	0.158	2216.67	32.759	0.237	NULL	NULL	NULL	2348.07	40.308	0.134

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-327	128.9	NULL	NULL	NULL	NULL	NULL	1935.06	43.105	0.239	2216.13	34.456	0.312	NULL	NULL	NULL	2352.12	40.443	0.184
K15-327	132.1	NULL	NULL	NULL	NULL	NULL	1939.94	40.314	0.21	2217.44	31.274	0.193	NULL	NULL	NULL	2344.68	38.595	0.105
K15-327	135.1	NULL	NULL	NULL	1537.07	0.00106	1922.85	41.567	0.0482	2217.92	32.652	0.238	NULL	NULL	NULL	2345.29	39.519	0.144
K15-327	138.1	1485.43	11.237	0.000693	1547.97	0.000771	1905.24	38.089	0.0155	2217.39	32.677	0.129	2247.9	19.542	0.102	2351.21	40.584	0.129
K15-327	141.1	NULL	NULL	NULL	1547.53	0.000261	1913.9	39.073	0.0671	2217.41	33.303	0.302	NULL	NULL	NULL	2349.7	39.111	0.181
K15-327	144	NULL	NULL	NULL	1546.36	0.000284	1912.02	37.96	0.0595	2217.59	33.233	0.338	NULL	NULL	NULL	2348.65	39.622	0.215
K15-327	145.6	NULL	NULL	NULL	1567.11	0.000209	1914.41	40.447	0.0916	2217.3	31.947	0.351	NULL	NULL	NULL	2350.41	38.271	0.223
K15-327	146.9	NULL	NULL	NULL	NULL	NULL	1935.47	41.849	0.0441	2216.71	31.469	0.177	NULL	NULL	NULL	2347.16	37.626	0.107
K15-327	147.2	NULL	NULL	NULL	NULL	NULL	1931.35	45.122	0.132	2212.05	33.464	0.0508	2242.67	14.973	0.0178	2354.24	39.224	0.0273
K15-327	147.4	1472.87	14.066	0.00412	1552.73	0.00215	1912.27	30.453	0.0216	2218.06	32.239	0.261	NULL	NULL	NULL	2349.58	38.567	0.169
K15-327	148.7	1476.35	19.01	0.0484	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2337.81	39.608	0.288
K15-327	149.6	NULL	NULL	NULL	1548.81	0.00106	1940.13	37.373	0.0307	2218.24	31.184	0.278	NULL	NULL	NULL	2352.07	37.294	0.176
K15-327	0	1472.3	19.859	0.00198	1548.65	0.000675	1941.51	38.676	0.0391	2218.1	31.33	0.232	NULL	NULL	NULL	2349.57	37.762	0.137
K15-327	152.6	1475.53	14.312	0.000653	1548.89	0.000827	1936.14	36.434	0.0164	2218.27	31.299	0.202	NULL	NULL	NULL	2349.58	38.285	0.135
K15-327	153.8	NULL	NULL	NULL	1549.37	0.000598	1923.95	36.231	0.015	2218.31	29.929	0.155	NULL	NULL	NULL	2351.95	36.954	0.103
K15-327	155.6	1486.99	10.276	0.000471	1551.13	0.000736	1928.66	42.463	0.0182	2219.96	29.229	0.127	2241.62	19.996	0.0763	2348.52	37.935	0.109
K15-327	157.6	NULL	NULL	NULL	NULL	NULL	1914.02	37.2	0.0999	2217.4	33.07	0.305	NULL	NULL	NULL	2350.52	39.978	0.194
K15-327	160.6	NULL	NULL	NULL	1538.23	0.00631	1916.76	39.836	0.194	2201.03	30.139	0.0789	2253.84	18.178	0.0742	2342.4	39.492	0.0905
K15-327	163.7	1485.45	15.391	0.000643	1548.13	0.00123	1931.63	35.174	0.011	2215.67	32.821	0.22	2240.13	17.361	0.124	2349.09	37.829	0.154
K15-327	165.8	NULL	NULL	NULL	1559.17	0.00463	1920.54	33.89	0.0144	2216.13	34.306	0.244	NULL	NULL	NULL	2348.67	39.131	0.165
K15-327	168.7	NULL	NULL	NULL	1563.33	0.00146	1924.36	36.095	0.0198	2214.53	34.47	0.232	2240.48	19.619	0.146	2351.43	39.095	0.172
K15-327	171.2	1476.56	18.25	0.000625	1547.72	0.00121	1918.88	36.073	0.00829	2214.39	32.905	0.152	NULL	NULL	NULL	2353.81	37.704	0.109
K15-327	174.3	NULL	NULL	NULL	1547.94	0.0207	1911.97	32.022	0.217	2208.5	36.101	0.105	2254.43	18.884	0.214	2342.58	38.106	0.212
K15-327	174.4	NULL	NULL	NULL	NULL	NULL	1909.75	31.875	0.295	2209.58	31.58	0.167	2251.31	21.144	0.0947	2347.98	39.134	0.123
K15-327	176.5	1472.92	15.673	0.0317	1539.71	0.0236	1912.16	30.599	0.193	2207.04	25.152	0.0921	2252.81	17.554	0.123	2340.99	37.394	0.149
K15-327	178.8	1489.39	12.004	0.000479	1550.56	0.00133	1918.66	27.291	0.0132	2214.4	33.332	0.161	2243.13	18.904	0.0796	2354.98	36.479	0.109
K15-327	181.5	1487.4	18.339	0.000685	1558.79	0.000912	1916.4	37.685	0.0113	2214.89	34.497	0.197	NULL	NULL	NULL	2349.17	38.76	0.138
K15-327	184.1	1471.59	15.453	0.00348	1564.45	0.000861	1911.83	31.429	0.0566	2214.55	34.393	0.22	2242.87	19.995	0.127	2349.48	39.856	0.145
K15-327	187.4	1471.73	17.168	0.000999	1548.39	0.000909	1909.52	32.799	0.0378	2212.7	33.612	0.0424	2253.59	17.461	0.107	2343.43	39.86	0.122
K15-327	190.4	1490.41	16.203	0.000408	1551.06	0.0013	1916.82	31.124	0.0217	NULL	NULL	NULL	2255.09	18.217	0.0728	2340.8	37.968	0.0856
K15-327	0	1473.36	16.186	0.00576	1548.79	0.00263	1912.49	30.987	0.0651	2215.21	33.314	0.181	2242.13	21.106	0.106	2353.08	38.739	0.137
K15-327	191.9	1472.88	17.511	0.00333	1546.72	0.00152	1914.05	35.15	0.0364	2213.93	35.329	0.3	NULL	NULL	NULL	2345.94	39.581	0.201
K15-327	193.7	NULL	NULL	NULL	1537.04	0.000974	1910.72	31.726	0.0916	2213.6	34.023	0.307	NULL	NULL	NULL	2352.07	38.7	0.184
K15-327	196.5	1473.96	14.706	0.00449	1549.04	0.00113	1910.62	36.487	0.0513	2216.78	33.677	0.295	2242.4	18.402	0.179	2346.55	40.21	0.188
K15-327	199.5	1475.96	19.41	0.00442	1556.27	0.00389	1930.92	40.307	0.0156	2217.17	33.53	0.218	2243.08	17.897	0.127	2350.13	37.352	0.137
K15-327	202.4	NULL	NULL	NULL	1540.03	0.000491	1911.59	34.802	0.115	2219.57	32.151	0.289	NULL	NULL	NULL	2350.94	39.063	0.183
K15-327	205.4	1473.85	15.373	0.00139	1562.37	0.000673	1916.3	35.399	0.0197	2220.86	30.185	0.238	2243.06	20.185	0.169	2351.7	38.595	0.156

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-327	208.3	1473.24	17.029	0.00134	1556.79	0.000566	1920.54	36.886	0.0217	2220.61	30.68	0.225	NULL	NULL	NULL	2350.23	37.051	0.145
K15-327	211.4	1470.37	14.719	0.00488	1559.43	0.00517	1921.6	36.872	0.0168	2217.35	33.495	0.172	2247.09	20.582	0.124	2347.14	39.213	0.14
K15-327	214.5	1473.48	48.998	0.000319	1556.65	0.00207	1946.27	32.997	0.0115	2219.08	33.382	0.0302	2254.62	18.142	0.0775	2351.33	33.495	0.0789
K15-327	217.5	NULL	NULL	NULL	1567.03	0.00628	1949.53	33.187	0.0242	2203.8	32.64	0.172	2255.53	16.808	0.124	2350.2	36.475	0.144
K15-327	220.3	NULL	NULL	NULL	1560.96	0.0095	1948.57	28.512	0.0295	NULL	NULL	NULL	2256.78	19.855	0.144	2343.95	33.123	0.131
K15-328	0	1473.56	12.413	0.0144	1546.62	0.0169	1952.72	40.075	0.0472	2209.16	36.872	0.0975	2252.05	17.721	0.123	2341.23	36.354	0.157
K15-328	7.5	NULL	NULL	NULL	1563.55	0.00185	1918.52	36.85	0.0261	2209.48	34.942	0.197	NULL	NULL	NULL	2349.6	37.114	0.126
K15-328	10.4	1473.93	15.626	0.0158	1555.11	0.0253	1914.93	30.823	0.0645	2213.98	34.778	0.23	2253.72	18.467	0.214	2348.42	37.234	0.224
K15-328	13.5	1470.73	15.777	0.00356	1567.03	0.00364	1954.81	36.736	0.019	2215.5	34.48	0.0338	2255.3	19.135	0.0268	2358.66	36.699	0.0235
K15-328	16.5	1472.26	12.869	0.0013	1566.76	0.000837	1946.99	39.65	0.0168	2214.25	30.462	0.0481	2251.56	20.293	0.0243	2355.72	38.735	0.0307
K15-328	19.9	1473.38	16.03	0.00117	NULL	NULL	1950.99	40.667	0.0221	2208.1	34.735	0.0435	2252.94	18.507	0.0652	2356.05	31.162	0.071
K15-328	20.5	NULL	NULL	NULL	1551.59	0.00174	1956.05	40.42	0.0158	2219.83	24.652	0.0192	2249.61	17.508	0.0352	2346.74	38.421	0.0333
K15-328	22.3	NULL	NULL	NULL	1553.35	0.00944	1947.75	31.771	0.0311	2214.34	32.285	0.165	2251.26	18.979	0.122	2351.15	37.696	0.159
K15-328	25.5	NULL	NULL	NULL	1564.31	0.00205	1945.77	37.32	0.0182	2209.04	32.521	0.212	2244.15	19.657	0.0675	2348.61	37.474	0.132
K15-328	28.5	NULL	NULL	NULL	1546.1	0.0106	1910.7	29.855	0.173	2208.65	34.591	0.351	2240.69	19.241	0.178	2344.19	40.299	0.257
K15-328	31.5	NULL	NULL	NULL	1555.32	0.0081	1957.39	41.589	0.0557	2207.59	14.933	0.0797	2256.16	20.294	0.174	2348.63	35.376	0.161
K15-328	34.4	NULL	NULL	NULL	NULL	NULL	1911.76	35.095	0.15	2207.91	34.152	0.348	NULL	NULL	NULL	2349.63	39.178	0.206
K15-328	37.5	NULL	NULL	NULL	1562.42	0.00464	1950.68	37.521	0.0302	2209.15	34.24	0.19	2253.66	17.985	0.144	2348.25	37.617	0.17
K15-328	40.5	NULL	NULL	NULL	NULL	NULL	1958.72	27.223	0.00117	NULL	NULL	NULL	2240.91	12.28	0.000731	2356.88	34.113	0.0065
K15-328	43.5	NULL	NULL	NULL	1555.61	0.00762	1949.55	42.245	0.0226	2210.92	33.167	0.174	2253.5	19.498	0.104	2349.45	37.227	0.125
K15-328	46.5	1499.7	11.845	0.000802	NULL	NULL	1916.04	40.618	0.0149	2210.45	32.402	0.158	2253.97	21.103	0.0777	2356.24	35.953	0.116
K15-328	51.5	NULL	NULL	NULL	1541.68	0.000277	1919.1	37.617	0.0239	2210.74	32.518	0.177	NULL	NULL	NULL	2347.26	37.086	0.102
K15-328	56.5	NULL	NULL	NULL	1544.33	0.000544	1910.06	32.592	0.0403	2209.93	30.775	0.18	NULL	NULL	NULL	2346.04	37.313	0.0872
K15-328	57.2	NULL	NULL	NULL	1564.92	0.000994	1936.91	49.536	0.0741	2209.48	28.911	0.186	2254.25	21.43	0.0659	2350	37.797	0.116
K15-328	58.5	NULL	NULL	NULL	1567.35	0.011	1957.68	27.228	0.0302	NULL	NULL	NULL	2256.14	20.425	0.148	2344.19	36.392	0.143
K15-328	61.7	NULL	NULL	NULL	1549.21	0.0233	1958.02	31.579	0.0524	2210.53	31.823	0.146	2254.07	18.105	0.169	2341.71	37.014	0.202
K15-328	64.9	NULL	NULL	NULL	1554.48	0.0127	1958.11	28.438	0.0463	2209.67	29.602	0.167	2254.08	17.875	0.174	2345.69	37.374	0.182
K15-328	67.6	NULL	NULL	NULL	1548.89	0.00453	1949.8	38.722	0.0315	2208.41	19.488	0.0458	2256.78	19.811	0.13	2355.29	36.868	0.125
K15-328	70.7	NULL	NULL	NULL	1554.13	0.0165	1954.62	23.448	0.0331	2219.56	30.615	0.176	2250.85	19.84	0.175	2343.01	36.1	0.193
K15-328	73.5	NULL	NULL	NULL	1555.59	0.0204	1947.79	38.65	0.0634	2218.16	31.661	0.125	2252.42	17.656	0.19	2347.3	36.289	0.184
K15-328	76.5	1473.87	13.151	0.0118	1553.33	0.0206	1952.89	28.789	0.0511	NULL	NULL	NULL	2254.14	19.572	0.191	2343.69	36.414	0.181
K15-328	79.5	NULL	NULL	NULL	1539.79	0.014	1911.75	33.49	0.145	2207.73	27.346	0.0626	2256.13	20.073	0.12	2345.49	38.182	0.126
K15-328	82.1	NULL	NULL	NULL	1554.78	0.0385	1951.81	31.683	0.0938	2219.38	31.538	0.179	2252.67	17.567	0.255	2342.67	37.1	0.244
K15-328	85.5	NULL	NULL	NULL	1549.25	0.0328	1908.25	22.299	0.125	NULL	NULL	NULL	2253.23	19.18	0.225	2339.67	36.258	0.206
K15-328	88.5	NULL	NULL	NULL	1538.56	0.0203	1940.45	40.823	0.227	2207.83	24.122	0.0741	2254.9	19.329	0.133	2348.77	36.716	0.11
K15-328	91.7	NULL	NULL	NULL	1551.38	0.028	1948.52	40.679	0.11	NULL	NULL	NULL	2253.3	18.63	0.221	2344.21	35.439	0.201
K15-328	94.6	1478.91	16.482	0.00244	NULL	NULL	1902.66	41.807	0.00354	NULL	NULL	NULL	2265.76	10.947	0.00103	NULL	NULL	NULL

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-328	97.7	NULL	NULL	NULL	1539.81	0.000266	1903.36	212.75	0.000414	NULL	NULL	NULL	2255.32	11.425	0.00066	NULL	NULL	NULL
K15-328	100.6	NULL	NULL	NULL	1552.53	0.0137	1955.5	27.172	0.0423	NULL	NULL	NULL	2254.4	20.054	0.166	2347.47	36.748	0.151
K15-328	103.5	NULL	NULL	NULL	1551.22	0.0327	1950.83	38.087	0.103	NULL	NULL	NULL	2254.58	20.159	0.233	2342.66	36.531	0.207
K15-328	0	NULL	NULL	NULL	1554.68	0.00708	1908.94	22.701	0.0813	NULL	NULL	NULL	2257.08	19.702	0.131	2347.76	35.605	0.116
K15-328	106.6	NULL	NULL	NULL	1550.48	0.0202	1909.98	37.352	0.0701	NULL	NULL	NULL	2255.41	19.747	0.201	2348.59	37.516	0.183
K15-328	109.6	NULL	NULL	NULL	1558.3	0.0152	1957.59	30.014	0.0403	2219.1	31.437	0.0801	2255.03	20.336	0.15	2341.69	34.907	0.156
K15-328	112.5	NULL	NULL	NULL	1556.61	0.0186	1910.25	32.835	0.0617	NULL	NULL	NULL	2255.2	20.059	0.186	2345.72	38.514	0.186
K15-328	115.6	NULL	NULL	NULL	1545.59	0.0114	1917.23	41.59	0.0671	2217.94	32.569	0.219	2242.02	20.671	0.144	2342.92	38.359	0.192
K15-328	118.6	1471.69	13.666	0.0102	1560.56	0.0122	1922.61	48.153	0.0336	2218.58	31.736	0.126	2251.62	19.929	0.121	2339.42	36.923	0.16
K15-328	121	1470.4	13.16	0.0179	1557.25	0.0211	1957.17	31.985	0.0276	NULL	NULL	NULL	2253.93	19.739	0.163	2336.83	35.123	0.218
K15-328	124.7	NULL	NULL	NULL	1541.76	0.00519	1944.32	34.944	0.0591	2219.36	30.236	0.105	2252.31	17.82	0.114	2340.66	36.533	0.158
K15-328	127.7	1473.22	14.628	0.00718	1548.61	0.0089	1943.42	44.285	0.0453	2218.69	31.009	0.106	2252.65	19.181	0.124	2343.73	37.547	0.146
K15-328	130.6	NULL	NULL	NULL	1551.99	0.0342	1958.66	23.14	0.0502	2219.05	32.657	0.22	2249.83	20.127	0.186	2342.8	38.358	0.196
K15-328	133.7	NULL	NULL	NULL	1538.04	0.0423	1947.76	33.74	0.0918	NULL	NULL	NULL	2256.28	22.418	0.162	2335.73	39.452	0.24
K15-328	136.6	NULL	NULL	NULL	1550.11	0.00929	1956.32	30.766	0.0361	2219.8	31.137	0.114	2250.82	18.672	0.16	2339.65	38.011	0.163
K15-328	139.7	1471.1	13.882	0.00116	1544.8	0.000692	1930.54	40.08	0.00151	NULL	NULL	NULL	2243.38	16.514	0.00133	2337.79	35.881	0.00642
K15-328	142.7	1470.81	13.54	0.000852	1541.38	0.000319	1923.65	33.831	0.00105	NULL	NULL	NULL	NULL	NULL	NULL	2350.89	34.871	0.00616
K15-328	145.6	1473.51	27.652	0.000734	1564.73	0.00161	1912.02	37.982	0.0113	2218.1	29.874	0.0837	2242.03	19.404	0.0475	2348.31	37.199	0.0623
K15-328	147.3	1473.1	14.76	0.00135	1553.16	0.00656	1959.67	23.258	0.0191	2223.92	28.669	0.0727	2251.34	17.523	0.115	2343.36	37.44	0.116
K15-328	148.4	NULL	NULL	NULL	1560.66	0.00456	NULL	NULL	NULL	NULL	NULL	NULL	2252.81	18.236	0.0818	2343.47	34.875	0.0918
K15-328	150.7	NULL	NULL	NULL	1553.41	0.00924	1959.7	31.886	0.0274	2228.35	28.313	0.0614	2255.57	20.142	0.123	2339.64	38.474	0.124
K15-328	153.7	NULL	NULL	NULL	1552.32	0.0311	1912.48	46.971	0.127	NULL	NULL	NULL	2254.26	18.526	0.253	2344.43	38.471	0.236
K15-328	156.6	NULL	NULL	NULL	1549.65	0.0377	1946.85	45.115	0.149	NULL	NULL	NULL	2252.91	17.556	0.242	2340.85	38.514	0.211
K15-328	159.3	NULL	NULL	NULL	1553.44	0.00743	1949.2	33.074	0.0402	2219.16	29.248	0.0948	2250.96	18.775	0.117	2349.02	36.692	0.119
K15-328	159.7	1481.89	17.293	0.0154	NULL	NULL	1943.26	36.073	0.042	2206.76	24.1	0.0189	2250.41	18.443	0.0281	2355.57	34.084	0.022
K15-328	162.2	NULL	NULL	NULL	1547.76	0.0175	1948.95	31.875	0.0572	2221.94	30.695	0.112	2252.24	18.214	0.169	2342.53	36.116	0.167
K15-328	162.7	NULL	NULL	NULL	1544.23	0.00584	1917.38	49.046	0.0544	2209.16	26.811	0.0174	2254.18	18.13	0.0751	2337.82	38.663	0.105
K15-328	164.7	NULL	NULL	NULL	NULL	NULL	1942.6	35.987	0.112	2217.61	33	0.179	NULL	NULL	NULL	2347.83	39.253	0.106
K15-328	166.9	NULL	NULL	NULL	1555.57	0.0225	1958.1	21.268	0.0305	2219.57	31.904	0.179	2249.21	20.555	0.171	2344.16	39.541	0.172
K15-328	167.7	1470.23	8.35	0.00228	1556.1	0.00522	1958.31	22.003	0.0172	2220.32	30.497	0.0836	2253.99	18.115	0.0923	2346.02	35.104	0.101
K15-328	168.3	NULL	NULL	NULL	1563.72	0.00628	1958.94	19.822	0.0143	NULL	NULL	NULL	2254.52	18.216	0.113	2341.76	38.344	0.105
K15-328	170.8	1473.51	13.368	0.00203	1566.58	0.00734	1958.7	29.575	0.0312	2216.06	32.419	0.07	2256.09	18.916	0.138	2348.87	34.215	0.133
K15-328	172.6	NULL	NULL	NULL	NULL	NULL	1957.97	24.332	0.0184	NULL	NULL	NULL	2256.48	20.248	0.101	2354.62	36.735	0.0945
K15-328	0	NULL	NULL	NULL	1549.37	0.00434	1944.65	35.46	0.0571	2216.56	31.932	0.158	2250	21.012	0.1	2347.06	37.213	0.124
K15-328	174.3	NULL	NULL	NULL	1548.07	0.0032	1957.09	26.168	0.0166	NULL	NULL	NULL	2257.68	19.134	0.0854	2354.12	36.67	0.0761
K15-328	176.4	1473.3	13.856	0.00203	1551.21	0.00571	1957.46	21.759	0.0213	NULL	NULL	NULL	2257.69	20.035	0.105	2351.82	36.035	0.0968
K15-328	178.9	NULL	NULL	NULL	1551.24	0.00757	1955.16	23.12	0.0159	2212.46	32.917	0.0515	2254.7	18.72	0.0926	2352.84	36.444	0.092

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K15-328	181.5	NULL	NULL	NULL	1557.37	0.00799	1945.52	34.833	0.0409	2217.81	33.549	0.0565	2254.29	18.708	0.123	2347.17	34.352	0.113
K15-328	182.3	1498.88	10.722	0.000634	NULL	NULL	1941.92	36.065	0.013	2214.46	31.811	0.0893	2243.66	16.015	0.0304	2344.11	38.389	0.0416
K15-328	184.1	NULL	NULL	NULL	1549.4	0.0116	1958.45	26.672	0.0279	2213.75	32.92	0.0998	2253.6	17.687	0.117	2345.13	36.14	0.137
K15-328	187.3	NULL	NULL	NULL	1557.93	0.0159	1953.45	28.823	0.0672	NULL	NULL	NULL	2255.52	20.259	0.226	2346.76	35.762	0.201
K15-328	189.9	NULL	NULL	NULL	1542.17	0.0063	1911.3	31.443	0.037	2213.31	32.675	0.0785	2251.72	18.473	0.0578	2347.43	35.34	0.0805
K15-328	191.2	NULL	NULL	NULL	1555.61	0.00476	1944.74	36.303	0.0344	2214.58	32.949	0.0547	2255.19	19.087	0.0867	2342.33	35.92	0.0885
K15-328	195.4	NULL	NULL	NULL	1548.96	0.017	1912.24	45.843	0.122	2211.16	32.959	0.206	2250.13	20.561	0.112	2345.5	38.437	0.136
K15-328	198.3	1473.27	13.738	0.00149	1568.54	0.00472	1957.27	27.788	0.0192	NULL	NULL	NULL	2257.91	19.696	0.11	2358.63	34.596	0.0939
K15-328	201.3	NULL	NULL	NULL	1566.97	0.00639	1953.05	30.244	0.0254	NULL	NULL	NULL	2256.93	19.746	0.123	2342.21	38.751	0.111
K15-328	204.4	NULL	NULL	NULL	1549.84	0.011	1959.67	17.762	0.0279	2216.84	33.991	0.0695	2254.91	19.471	0.155	2342.84	36.086	0.143
K15-328	207.5	NULL	NULL	NULL	1539.65	0.000437	1902.06	30.865	0.00247	NULL	NULL	NULL	2242.18	12.971	0.00431	2357.4	39.915	0.00814
K15-328	209.9	NULL	NULL	NULL	1539.3	0.00031	1921.24	37.922	0.00101	NULL	NULL	NULL	2260.9	15.902	0.00059	2356.44	32.473	0.00658
K15-328	210.4	NULL	NULL	NULL	1542.9	0.0143	1954.32	42.884	0.0687	2213.16	33.207	0.0627	2254.44	18.752	0.117	2341.35	38.045	0.105
K15-328	0	NULL	NULL	NULL	1543.71	0.0291	1947.85	45.049	0.113	2209.31	30.757	0.0837	2254.58	19.628	0.157	2343.38	37.911	0.168
K15-328	212.7	1475.17	22.03	0.0164	NULL	NULL	1946.15	40.79	0.0755	2210.06	31.752	0.0467	2251.28	17.18	0.0345	2355.64	33.065	0.0321
K15-328	213.1	NULL	NULL	NULL	NULL	NULL	1943.52	46.171	0.213	2208.6	25.821	0.0613	2257.25	20.034	0.172	2343.71	38.07	0.164
K15-328	216.4	NULL	NULL	NULL	NULL	NULL	1913.19	36.705	0.216	2211.65	32.879	0.245	NULL	NULL	NULL	2344.09	39.921	0.128
K15-328	218.2	NULL	NULL	NULL	1538.81	0.00325	1912.38	35.71	0.11	2215.4	33.763	0.354	NULL	NULL	NULL	2348.23	39.497	0.221
K15-328	219.2	NULL	NULL	NULL	1537.45	0.00637	1938.61	44.376	0.063	2210.15	30.134	0.125	NULL	NULL	NULL	2346.27	37.13	0.0572
K15-328	221.1	NULL	NULL	NULL	NULL	NULL	1939.75	45.794	0.14	2215.09	33.487	0.26	NULL	NULL	NULL	2348.1	39.93	0.142
K15-328	224.1	NULL	NULL	NULL	1564.67	0.00012	1914.5	41.103	0.118	2208.03	25.543	0.216	NULL	NULL	NULL	2342.96	40.562	0.0802
K15-328	227.1	NULL	NULL	NULL	NULL	NULL	1940	45.914	0.174	2211.26	31.58	0.0972	2251.16	20.529	0.0466	2339.43	39.822	0.0836
K15-328	229.8	NULL	NULL	NULL	NULL	NULL	1929.53	47.592	0.127	2216.18	32.6	0.213	NULL	NULL	NULL	2343.08	39.645	0.12
K15-328	230.4	NULL	NULL	NULL	1549.5	0.00771	1920.84	49.956	0.108	2217.57	32.098	0.233	2250.58	20.704	0.195	2345.13	39.929	0.205
K15-328	233.4	NULL	NULL	NULL	1541.49	0.000637	1919.23	44.526	0.0435	2214.01	33.484	0.208	NULL	NULL	NULL	2345.86	39.448	0.132
K15-328	235.5	NULL	NULL	NULL	1555.59	0.011	1913.52	45.515	0.0768	2216.16	33.298	0.195	2252.15	20.839	0.146	2347.88	38.091	0.15
K16-349	27.1	NULL	NULL	NULL	1542.74	0.000135	1912.26	35.471	0.0971	2215.9	33.377	0.302	NULL	NULL	NULL	2348.31	39.65	0.176
K16-349	32.1	NULL	NULL	NULL	1566.37	0.000243	1918.27	41.672	0.144	2214.56	34.032	0.289	NULL	NULL	NULL	2345.2	39.589	0.168
K16-349	37.1	1473.47	17.042	0.0108	NULL	NULL	1917.04	43.035	0.106	2215.51	33.706	0.244	NULL	NULL	NULL	2344.12	40.361	0.14
K16-349	42.3	NULL	NULL	NULL	1537.27	0.00184	1927.84	45.529	0.0942	2216.46	33.568	0.313	NULL	NULL	NULL	2352.22	40.236	0.185
K16-349	45.1	NULL	NULL	NULL	NULL	NULL	1928.32	46.86	0.193	2217.16	33.48	0.318	NULL	NULL	NULL	2351.59	40.328	0.185
K16-349	48.1	NULL	NULL	NULL	1566.34	NULL	1918.3	42.887	0.108	2216.51	32.698	0.22	NULL	NULL	NULL	2353.61	40.482	0.12
K16-349	51.1	NULL	NULL	NULL	1543.75	0.00048	1912.46	37.272	0.034	2219.11	31.76	0.212	NULL	NULL	NULL	2347.12	39.548	0.125
K16-349	54.1	NULL	NULL	NULL	NULL	NULL	1917.16	41.778	0.0557	2219.05	32.117	0.292	NULL	NULL	NULL	2351.96	40.82	0.171
K16-349	57.2	1470.14	13.681	0.00642	1544.67	0.00202	1926.47	41.264	0.0461	2219.7	31.013	0.225	NULL	NULL	NULL	2342.71	40.891	0.141
K16-349	60.2	NULL	NULL	NULL	1541.4	0.000505	1912.64	34.268	0.109	2219.56	32.452	0.397	2243.66	19.333	0.255	2348.5	40.377	0.263
K16-349	63.1	NULL	NULL	NULL	1556.63	0.000307	1910.57	34.236	0.147	2220.03	31.745	0.377	NULL	NULL	NULL	2348.93	40.309	0.237

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-349	66.1	NULL	NULL	NULL	1562.76	0.000318	1914.47	42.972	0.151	2220.32	31.821	0.34	NULL	NULL	NULL	2349.71	40.572	0.218
K16-349	69.1	NULL	NULL	NULL	1539.43	0.00369	1918.64	44.571	0.108	2220.3	31.536	0.379	NULL	NULL	NULL	2345.1	40.365	0.235
K16-349	71.9	NULL	NULL	NULL	1541.8	0.000431	1916.92	40.408	0.07	2219.72	31.847	0.285	2243.91	20.652	0.191	2343.34	40.387	0.18
K16-349	75.3	NULL	NULL	NULL	NULL	NULL	1912.42	35.438	0.203	2222.7	30.36	0.338	NULL	NULL	NULL	2345.23	41.632	0.204
K16-349	78.1	NULL	NULL	NULL	NULL	NULL	1910.67	35.761	0.314	2220.41	33.456	0.397	NULL	NULL	NULL	2343.56	41.713	0.244
K16-349	81.1	NULL	NULL	NULL	NULL	NULL	1912.02	35.266	0.297	2219.36	32.083	0.286	NULL	NULL	NULL	2344.34	39.654	0.174
K16-349	84.1	NULL	NULL	NULL	1564.06	0.000442	1935.3	45.031	0.085	2219.35	32.287	0.372	NULL	NULL	NULL	2350	40.65	0.238
K16-349	87.2	NULL	NULL	NULL	1542.51	0.0101	1924.39	43.55	0.0259	2220.63	31.46	0.242	NULL	NULL	NULL	2343.43	41.369	0.166
K16-349	90.1	1472.58	18.609	0.0106	1539.9	0.0105	1924.08	36.142	0.0257	2219.62	32.05	0.277	NULL	NULL	NULL	2347.02	40.707	0.178
K16-349	93.1	NULL	NULL	NULL	NULL	NULL	1933.91	46.061	0.087	2219.69	31.597	0.294	NULL	NULL	NULL	2346.29	41.325	0.179
K16-349	96.1	NULL	NULL	NULL	NULL	NULL	1915.36	39.4	0.0514	2219.87	32.821	0.48	NULL	NULL	NULL	2343.82	41.215	0.322
K16-349	99.1	NULL	NULL	NULL	NULL	NULL	1934.89	45.251	0.0651	2220.44	31.358	0.305	NULL	NULL	NULL	2341.83	40.415	0.195
K16-349	102.1	NULL	NULL	NULL	1544.82	0.00417	1942.57	36.976	0.0844	2221.29	29.821	0.262	NULL	NULL	NULL	2342.23	40.885	0.16
K16-349	109.4	NULL	NULL	NULL	1553.76	0.000361	1935.59	43.756	0.0477	2220.59	31.283	0.417	NULL	NULL	NULL	2350.14	40.69	0.266
K16-349	116.9	NULL	NULL	NULL	1539.09	0.000395	1934.41	44.546	0.0612	2219.7	32.61	0.383	NULL	NULL	NULL	2349.9	39.723	0.238
K16-349	119.1	NULL	NULL	NULL	1567.14	0.000111	1921.2	42.291	0.0926	2218.59	32.819	0.39	NULL	NULL	NULL	2350.72	39.751	0.256
K16-349	122.3	NULL	NULL	NULL	1542.64	0.00182	1925	43.802	0.0493	2217.49	34.114	0.327	NULL	NULL	NULL	2345.87	40.592	0.211
K16-349	125.1	NULL	NULL	NULL	1539.09	0.00144	1914.75	38.913	0.00511	NULL	NULL	NULL	2246.57	10.849	0.000834	2312.73	26.958	0.00993
K16-349	130.1	1472.19	15.168	0.000651	1540.42	0.00034	1909.86	30.893	0.00148	NULL	NULL	NULL	2250.65	14.917	0.000804	2355.02	33.616	0.00603
K16-349	135.1	NULL	NULL	NULL	1546.67	0.000334	1938.65	40.622	0.0701	2217.79	33.429	0.356	NULL	NULL	NULL	2354.62	40.55	0.202
K16-349	139.9	NULL	NULL	NULL	1540.19	0.00162	1939.58	39.465	0.117	2218.82	32.623	0.358	NULL	NULL	NULL	2353.55	40.35	0.217
K16-349	145.1	NULL	NULL	NULL	NULL	NULL	1912.54	35.705	0.143	2219.12	32.205	0.329	NULL	NULL	NULL	2340.67	41.052	0.194
K16-349	150.1	NULL	NULL	NULL	1541.4	0.000703	1933.48	42.451	0.0547	2220.97	30.108	0.31	NULL	NULL	NULL	2351.1	41.026	0.175
K16-349	155.1	1478.92	16.89	0.00065	1548.94	0.000509	1937.62	40.566	0.0367	2221.38	30.044	0.345	NULL	NULL	NULL	2344.06	41.397	0.216
K16-349	160.1	NULL	NULL	NULL	NULL	NULL	1922	41.441	0.13	2220.53	31.928	0.397	NULL	NULL	NULL	2341.82	42.17	0.236
K16-349	165.1	NULL	NULL	NULL	NULL	NULL	1938.8	45.5	0.184	2196.17	35.18	0.0463	2246.22	20.279	0.0353	2333.54	36.082	0.0436
K16-349	170.1	1482.14	22.635	0.0244	NULL	NULL	1939.8	47.773	0.147	2217.3	33.904	0.511	NULL	NULL	NULL	2350.41	40.695	0.343
K16-349	173.1	1471.06	13.976	0.00117	1564.69	0.000608	1922.67	38.658	0.0262	2219.57	30.393	0.242	2243.65	19.828	0.141	2354.73	40.581	0.165
K16-349	176.1	1472.18	15.604	0.00201	1567.31	0.00065	1920.65	34.336	0.0268	2217.61	32.383	0.341	NULL	NULL	NULL	2352.17	39.803	0.198
K16-349	179.1	1470.8	15.735	0.0042	1558.37	0.000612	1920.79	34.229	0.0439	2218.03	31.683	0.27	NULL	NULL	NULL	2345.9	39.896	0.156
K16-349	182.1	NULL	NULL	NULL	1547.42	0.00245	1911.25	39.337	0.0178	2216.93	33.444	0.296	2242.87	18.716	0.175	2351.71	39.877	0.166
K16-349	185.1	NULL	NULL	NULL	1539.26	0.00263	1933.43	38.539	0.0573	2216.25	32.37	0.198	2241.57	20.095	0.108	2357.47	37.471	0.126
K16-349	188.1	1473.84	16.849	0.00903	1561.07	0.000309	1934.15	44.663	0.122	2216.07	34.255	0.396	NULL	NULL	NULL	2351.79	40.784	0.232
K16-349	191.1	NULL	NULL	NULL	1542.58	0.000448	1936.88	39.968	0.107	2216.93	33.916	0.383	NULL	NULL	NULL	2354.25	41.39	0.221
K16-349	194.1	NULL	NULL	NULL	1568.11	0.000889	1936.59	35.958	0.0558	2218.16	29.763	0.15	NULL	NULL	NULL	2338.68	39.815	0.0933
K16-349	197.1	NULL	NULL	NULL	1538.83	0.000703	1910.12	33.67	0.169	2218.07	32.869	0.459	NULL	NULL	NULL	2350.35	40.203	0.289
K16-349	200.1	NULL	NULL	NULL	1560.78	0.000781	1910.52	31.632	0.0423	2219.96	31.328	0.355	NULL	NULL	NULL	2354.05	40.606	0.218

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-372	0	NULL	NULL	NULL	1555.23	0.000396	1918.3	40.484	0.0713	2220.67	31.224	0.406	NULL	NULL	NULL	2353.11	40.849	0.252
K16-372	21.92	NULL	NULL	NULL	1542.07	0.000147	1919.54	38.357	0.108	2217.86	34.182	0.57	NULL	NULL	NULL	2346.13	41.486	0.386
K16-372	24.93	NULL	NULL	NULL	1553.95	0.000486	1933.52	41.205	0.09	2217.35	34.209	0.469	NULL	NULL	NULL	2345.48	41.194	0.283
K16-372	27.09	NULL	NULL	NULL	NULL	NULL	1911.61	36.702	0.15	2215.75	34.522	0.491	NULL	NULL	NULL	2350.25	40.432	0.308
K16-372	30.82	NULL	NULL	NULL	NULL	NULL	1936.36	41.986	0.0973	2216.64	33.3	0.395	NULL	NULL	NULL	2342.74	40.088	0.261
K16-372	33.96	NULL	NULL	NULL	1540.16	0.00103	1914.07	39.056	0.112	2214.81	34.903	0.462	NULL	NULL	NULL	2347.27	40.806	0.288
K16-372	36.95	NULL	NULL	NULL	NULL	NULL	1927.12	41.406	0.112	2215.67	33.616	0.421	NULL	NULL	NULL	2352.7	40.2	0.247
K16-372	39.58	NULL	NULL	NULL	NULL	NULL	1924.58	41.781	0.156	2215.15	34.209	0.503	NULL	NULL	NULL	2348.75	40.281	0.315
K16-372	44.42	NULL	NULL	NULL	NULL	NULL	1913.33	36.528	0.446	2204.74	33.624	0.415	NULL	NULL	NULL	2342.36	39.753	0.235
K16-372	49.44	NULL	NULL	NULL	1558.26	0.00119	1907.78	31.532	0.0395	2208.86	34.164	0.439	NULL	NULL	NULL	2349.44	39.077	0.254
K16-372	52.82	NULL	NULL	NULL	NULL	NULL	1935.92	42.189	0.0722	2209.06	33.78	0.335	NULL	NULL	NULL	2341.89	38.882	0.192
K16-372	55.82	NULL	NULL	NULL	NULL	NULL	1938.42	38.76	0.0916	2210.4	34.504	0.372	NULL	NULL	NULL	2344.3	40.235	0.212
K16-372	58.45	NULL	NULL	NULL	NULL	NULL	1937.65	41.279	0.163	2209.54	34.661	0.474	NULL	NULL	NULL	2348.63	40.594	0.263
K16-372	61.36	NULL	NULL	NULL	NULL	NULL	1920.58	39.828	0.168	2210.74	35.064	0.5	NULL	NULL	NULL	2349.91	40.1	0.303
K16-372	64.23	NULL	NULL	NULL	NULL	NULL	1916.35	40.094	0.27	2210.68	35.268	0.457	NULL	NULL	NULL	2350.21	40.808	0.266
K16-372	67.31	NULL	NULL	NULL	NULL	NULL	1919.19	42.426	0.309	2209.42	34.856	0.465	NULL	NULL	NULL	2343.86	41.001	0.268
K16-372	70.19	NULL	NULL	NULL	NULL	NULL	1912.94	34.048	0.0689	2209.96	32.144	0.173	NULL	NULL	NULL	2337.66	39.722	0.0781
K16-372	70.96	NULL	NULL	NULL	1561.84	0.00049	1925.07	37.289	0.0521	2210.29	33.638	0.299	NULL	NULL	NULL	2350.7	39.936	0.163
K16-372	73.21	NULL	NULL	NULL	1540.78	0.00435	1925.16	39.149	0.033	2210.43	33.598	0.296	NULL	NULL	NULL	2352.93	39.363	0.149
K16-372	75.57	NULL	NULL	NULL	NULL	NULL	1919.38	43.994	0.00615	NULL	NULL	NULL	2263.99	13.366	0.000271	2349.35	26.109	0.00943
K16-372	77.07	1471.29	11.231	0.000764	NULL	NULL	1901	27.518	0.000607	NULL	NULL	NULL	2256.73	12.522	0.000876	2352.35	36.405	0.00672
K16-372	0	1498.47	16.635	0.00421	NULL	NULL	1908.27	31.242	0.0184	2208.56	32.867	0.234	NULL	NULL	NULL	2352.77	38.656	0.122
K16-372	0	1470.69	11.266	0.00163	1548.64	0.000938	1912.65	35.124	0.0204	2209.85	34.879	0.41	NULL	NULL	NULL	2353.77	39.939	0.227
K16-372	78.46	1470.37	12.471	0.00209	1556.57	0.00376	1911.71	37.683	0.0293	2209.67	34.745	0.344	NULL	NULL	NULL	2354.07	39.65	0.197
K16-372	80.13	NULL	NULL	NULL	1556.55	0.000431	1908.47	31.602	0.0557	2209.1	34.839	0.372	NULL	NULL	NULL	2353.36	40.024	0.198
K16-372	82.1	NULL	NULL	NULL	1556.38	0.0014	1912.43	32.671	0.0392	2210.51	35.848	0.377	NULL	NULL	NULL	2356.27	40.664	0.233
K16-372	85.18	1470.07	13.798	0.000537	1550.81	0.000508	1911.6	31.696	0.0423	2212.74	34.949	0.376	NULL	NULL	NULL	2349.25	40.601	0.208
K16-372	88.36	NULL	NULL	NULL	1554.27	0.000374	1909.98	33.093	0.06	2214.35	34.243	0.397	NULL	NULL	NULL	2352.76	40.024	0.222
K16-372	91.63	NULL	NULL	NULL	1550.79	0.00134	1908	31.86	0.0263	2213.31	35.497	0.443	NULL	NULL	NULL	2343.6	41.35	0.26
K16-372	94.81	NULL	NULL	NULL	1553.16	0.000959	1909.22	33.703	0.038	2216.54	34.36	0.5	NULL	NULL	NULL	2353.8	41.59	0.309
K16-372	97.61	NULL	NULL	NULL	1561.23	0.000709	1911.43	41.222	0.0224	2218.6	33.03	0.435	NULL	NULL	NULL	2352.49	41.301	0.255
K16-372	100.55	NULL	NULL	NULL	1554.87	0.000595	1909.96	32.766	0.0639	2219.28	33.269	0.464	NULL	NULL	NULL	2349.29	42.55	0.278
K16-372	103.31	NULL	NULL	NULL	1540.61	0.000625	1940.49	38.493	0.0262	2219.16	32.265	0.382	NULL	NULL	NULL	2355.03	40.363	0.229
K16-372	106.32	NULL	NULL	NULL	1549.25	0.000805	1910.52	33.775	0.0616	2220.61	31.009	0.365	NULL	NULL	NULL	2341.08	41.616	0.221
K16-372	109.31	1498.59	15.195	0.00603	1563.3	0.00977	1910.84	33.669	0.0198	2221.53	29.967	0.184	2246.1	21.553	0.142	2344.24	41.752	0.148
K16-372	112.31	1473.06	15.59	0.00437	1559.92	0.00154	1909.3	33.704	0.0441	2216.15	34.214	0.408	NULL	NULL	NULL	2343.14	41.261	0.254
K16-372	115.62	1473.03	13.229	0.0014	1551.17	0.000842	1915.46	45.14	0.0335	2215.39	35.554	0.502	NULL	NULL	NULL	2350.11	41.022	0.314

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-372	118.73	NULL	NULL	NULL	1544.83	0.000519	1917.41	38.741	0.0817	2214.22	35.477	0.47	NULL	NULL	NULL	2353.67	40.595	0.288
K16-372	121.84	1472.63	15.067	0.00107	1553.95	0.000846	1916.59	39.227	0.0471	2213.85	34.249	0.436	NULL	NULL	NULL	2345.79	40.053	0.272
K16-372	124.38	NULL	NULL	NULL	1547.87	0.000615	1930.38	42.72	0.0366	2216.44	34.085	0.41	NULL	NULL	NULL	2346.99	41.387	0.245
K16-372	125.64	1470.09	12.949	0.00271	1561.87	0.00117	1925.69	42.857	0.0395	2214.76	34.81	0.433	NULL	NULL	NULL	2347.36	40.445	0.265
K16-372	126.15	1473.12	16.214	0.000662	1566.05	0.000629	1922.2	41.602	0.0137	NULL	NULL	NULL	2241.48	16.364	0.00785	2356.45	38.356	0.00957
K16-372	128.24	1472.81	15.245	0.000745	1544.93	0.000358	1901.29	31.973	0.00096	NULL	NULL	NULL	NULL	NULL	NULL	2356.75	34.853	0.007
K16-372	131.15	NULL	NULL	NULL	1551.32	0.00238	1916.26	38.146	0.0474	2214.64	35.006	0.569	NULL	NULL	NULL	2351.19	39.994	0.376
K16-372	133.07	NULL	NULL	NULL	1549.2	0.000736	1907.78	32.805	0.0187	2218.5	31.622	0.428	NULL	NULL	NULL	2351.45	39.45	0.26
K16-372	136.21	NULL	NULL	NULL	1542.22	0.00141	1939.76	35.215	0.0775	2217.45	32.921	0.369	NULL	NULL	NULL	2351.28	40.512	0.204
K16-372	139.16	NULL	NULL	NULL	1558.48	0.000446	1908.83	33.371	0.071	2217.32	32.37	0.394	NULL	NULL	NULL	2353.33	39.545	0.233
K16-372	142.31	NULL	NULL	NULL	1553.99	0.000822	1910.88	35.202	0.0953	2216.52	32.704	0.375	NULL	NULL	NULL	2352.5	39.275	0.216
K16-372	145.19	NULL	NULL	NULL	1551.23	0.000999	1935.93	41.16	0.0728	2216.76	33.348	0.329	NULL	NULL	NULL	2342.26	40.785	0.181
K16-372	0	1473.22	14.125	0.00181	1550	0.000948	1940.18	36.912	0.0414	2216.85	31.456	0.35	NULL	NULL	NULL	2349.8	38.461	0.202
K16-372	0	NULL	NULL	NULL	1555.12	0.00095	1910.42	32.832	0.0547	2216.31	32.501	0.289	NULL	NULL	NULL	2346.19	38.842	0.16
K16-372	148.67	NULL	NULL	NULL	1547.89	0.000602	1908.52	31.325	0.0398	2215.6	31.946	0.277	NULL	NULL	NULL	2349.03	38.239	0.154
K16-372	151.24	NULL	NULL	NULL	1549.91	0.000709	1910.64	30.752	0.0962	2214.92	33.998	0.425	NULL	NULL	NULL	2345.33	41.18	0.272
K16-372	154.59	NULL	NULL	NULL	1545.02	0.000823	1937.75	39.712	0.0565	2215	33.005	0.33	NULL	NULL	NULL	2354.27	38.212	0.189
K16-372	157.19	NULL	NULL	NULL	NULL	NULL	1910.04	32.786	0.127	2211.36	31.851	0.35	NULL	NULL	NULL	2354.22	39.9	0.171
K16-372	160.47	NULL	NULL	NULL	1540.73	0.000737	1937.44	42.669	0.0854	2214.49	33.856	0.431	NULL	NULL	NULL	2352.48	39.094	0.254
K16-372	163.08	NULL	NULL	NULL	1544.8	0.00216	1909.79	34.277	0.122	2213.48	34.019	0.448	NULL	NULL	NULL	2349.84	39.831	0.258
K16-372	166.22	NULL	NULL	NULL	NULL	NULL	1909.65	34.098	0.264	2208.51	25.986	0.423	NULL	NULL	NULL	2352.55	39.775	0.187
K16-372	169.86	NULL	NULL	NULL	NULL	NULL	1909.7	33.042	0.153	2211.18	32.888	0.346	NULL	NULL	NULL	2347.52	40.372	0.18
K16-372	172.31	NULL	NULL	NULL	NULL	NULL	1909.25	32.761	0.185	2216.74	33.05	0.407	NULL	NULL	NULL	2346.55	39.774	0.232
K16-372	175.53	1497.92	22.43	0.00109	1558.52	0.0026	NULL	NULL	NULL	2183	23.61	0.0313	2240.06	19.796	0.023	2328.01	39.538	0.0149
K16-372	178.23	1471.48	13.227	0.000707	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2241.64	13.404	0.00111	2355.84	31.393	0.00709
K16-372	181.22	NULL	NULL	NULL	NULL	NULL	1939.78	36.688	0.147	2216.83	31.488	0.27	NULL	NULL	NULL	2354.29	40.351	0.128
K16-372	184.61	NULL	NULL	NULL	1554.57	0.00159	1912.61	38.462	0.0444	2218.41	32.217	0.35	NULL	NULL	NULL	2354.67	40.825	0.195
K16-372	187.19	NULL	NULL	NULL	1553.8	0.00149	1915.07	40.732	0.0678	2218.8	33.418	0.496	NULL	NULL	NULL	2350.76	42.608	0.306
K16-372	190.07	NULL	NULL	NULL	1553.35	0.00821	1914.03	36.685	0.0983	2214.65	32.598	0.344	NULL	NULL	NULL	2352.9	39.386	0.189
K16-372	193.81	NULL	NULL	NULL	1555.57	0.0025	1917.1	43.411	0.0443	2216.04	33.779	0.414	NULL	NULL	NULL	2353.56	40.495	0.248
K16-372	196.19	NULL	NULL	NULL	1548.9	0.00023	1909.59	32.102	0.173	2210.01	32.819	0.372	NULL	NULL	NULL	2351.21	39.228	0.207
K16-372	199.41	NULL	NULL	NULL	1547.91	0.00255	1939.08	33.598	0.0596	2218.33	31.626	0.388	NULL	NULL	NULL	2353.34	40.312	0.219
K16-372	202.47	NULL	NULL	NULL	1547.89	0.000987	1938.38	37.674	0.123	2216.64	32.404	0.401	NULL	NULL	NULL	2355.39	39.683	0.227
K16-372	205.45	NULL	NULL	NULL	NULL	NULL	1910.46	36.233	0.305	2208.02	28.203	0.455	NULL	NULL	NULL	2355.63	40.925	0.119
K16-372	0	NULL	NULL	NULL	1556.43	0.00087	1907.83	34.071	0.07	2218.16	33.184	0.425	NULL	NULL	NULL	2352.97	40.595	0.252
K16-372	0	NULL	NULL	NULL	NULL	NULL	1940.59	35.197	0.119	2218.17	30.292	0.174	NULL	NULL	NULL	2334.38	40.467	0.0815
K16-372	207.45	1486.69	9.555	0.000137	NULL	NULL	1904.85	31.121	0.026	2218.43	31.485	0.241	2243.06	18.824	0.148	2338.69	41.209	0.175

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-372	210.66	NULL	NULL	NULL	1560.69	0.000632	1912.27	35.449	0.0981	2216.5	33.227	0.462	NULL	NULL	NULL	2353.28	39.724	0.277
K16-372	214.09	NULL	NULL	NULL	1564.21	0.000328	1914.33	36.719	0.11	2217	33.616	0.391	NULL	NULL	NULL	2354.59	40.528	0.223
K16-372	217.09	NULL	NULL	NULL	1541.02	0.000169	1912.85	34.332	0.0746	2217.35	32.801	0.361	NULL	NULL	NULL	2350.36	41.104	0.221
K16-372	220.67	NULL	NULL	NULL	NULL	NULL	1940.4	34.176	0.078	2219.73	30.195	0.19	NULL	NULL	NULL	2336.27	37.527	0.177
K16-372	223.79	NULL	NULL	NULL	1558.27	0.000466	1912.97	36.254	0.0851	2219.89	31.844	0.429	NULL	NULL	NULL	2355.37	40.721	0.263
K16-372	225.75	1474.78	19.27	0.000848	1568.76	0.00416	1901.11	29.799	0.0185	2220.91	28.701	0.155	2242.49	20.653	0.116	2336.98	40.661	0.117
K16-372	228.61	NULL	NULL	NULL	1556.59	0.000859	1907.5	32.793	0.0503	2220.39	30.337	0.274	NULL	NULL	NULL	2353.42	40.552	0.168
K16-372	229.64	1487.67	16.989	0.0158	1565.8	0.0198	1902.04	27.688	0.0219	NULL	NULL	NULL	2252.76	18.089	0.086	2334.22	39.926	0.0747
K16-372	232.26	NULL	NULL	NULL	1568.48	0.00334	1907.16	33.785	0.0357	2219.88	31.821	0.255	NULL	NULL	NULL	2356.16	41.797	0.136
K16-372	235.6	NULL	NULL	NULL	1566.63	0.00228	1936.45	39.896	0.0245	2214.75	33.841	0.332	NULL	NULL	NULL	2354.79	40.262	0.186
K16-372	238.23	1472.38	9.277	0.000846	1552.62	0.00228	1905.66	30.272	0.0262	2214.66	35.092	0.411	NULL	NULL	NULL	2353.67	41.212	0.235
K16-372	240.41	NULL	NULL	NULL	1560.08	0.0118	1907.81	32.337	0.0293	2215.21	35.48	0.328	NULL	NULL	NULL	2340.21	41.032	0.175
K16-372	242.91	NULL	NULL	NULL	1549.43	0.00285	1909.02	33.095	0.0952	2215.36	35.3	0.411	NULL	NULL	NULL	2342.79	42.057	0.236
K16-372	246.16	NULL	NULL	NULL	1563.95	0.0233	1949.23	24.577	0.0266	2216.38	32.827	0.227	2250.56	20.498	0.17	2342.58	39.629	0.168
K16-372	249.04	NULL	NULL	NULL	NULL	NULL	1903.57	21.987	0.0306	2215.62	33.077	0.174	2251	20.084	0.159	2352.7	40.019	0.143
K16-372	251.91	NULL	NULL	NULL	1564.33	0.03	NULL	NULL	NULL	2227.51	28.737	0.0815	2253.44	16.985	0.185	2335.42	40.504	0.149
K16-372	255.26	NULL	NULL	NULL	1545.18	0.0345	1918.64	37.609	0.0956	2217.7	31.912	0.284	NULL	NULL	NULL	2339.42	40.962	0.171
K16-372	258.27	NULL	NULL	NULL	1549.19	0.000694	1908.58	36.122	0.0318	2216.74	33.267	0.435	NULL	NULL	NULL	2353.24	39.79	0.28
K16-372	261.04	NULL	NULL	NULL	1555.22	0.0058	1918.16	44.737	0.021	2218.57	32.234	0.297	NULL	NULL	NULL	2354.9	40.23	0.172
K16-372	264.16	NULL	NULL	NULL	NULL	NULL	1924.59	37.856	0.0895	2218.8	29.494	0.13	NULL	NULL	NULL	2334.46	35.153	0.227
K16-372	267.8	NULL	NULL	NULL	1547.3	0.000988	1912.46	39.65	0.0531	2218.59	33.165	0.528	NULL	NULL	NULL	2353.02	40.202	0.363
K16-372	771.71	NULL	NULL	NULL	1540.81	0.000847	1936.05	40.752	0.0626	2218.56	30.737	0.264	NULL	NULL	NULL	2338.35	40.495	0.158
K16-372	274.64	NULL	NULL	NULL	1538.19	0.000879	1919.73	39.658	0.0636	2217.36	31.622	0.269	NULL	NULL	NULL	2338.68	39.93	0.177
K16-372	279.96	NULL	NULL	NULL	1560.92	0.000286	1911.77	37.736	0.0706	2216.19	33.996	0.381	NULL	NULL	NULL	2352.11	40.893	0.223
K16-372	282.86	1496.83	34.881	0.00431	1564.33	0.00698	1902.29	31.957	0.0196	2180.14	23.018	0.0397	2240.14	18.59	0.0294	2329.49	39.162	0.0207
K16-372	283.14	1471.9	13.62	0.000527	NULL	NULL	1901.5	16.461	0.00121	NULL	NULL	NULL	2243.22	16.239	0.00101	2357.96	32.442	0.00805
K16-372	284.06	NULL	NULL	NULL	1541.82	0.0022	1916.74	38.304	0.134	2215.46	34.689	0.401	2241.98	20.086	0.243	2338.22	40.802	0.287
K16-372	285.27	1473.8	17.649	0.0196	NULL	NULL	1931.27	45.245	0.157	2216.38	32.604	0.37	NULL	NULL	NULL	2346.99	40.25	0.217
K16-372	288.27	NULL	NULL	NULL	NULL	NULL	1931.86	42.879	0.137	2214.94	33.063	0.318	2243.8	16.768	0.145	2356.54	39.695	0.201
K16-372	291.51	1471.97	18.416	0.0211	1567.32	0.0194	1923.88	35.554	0.0773	2216.31	31.306	0.169	2242.53	18.348	0.107	2357.05	37.479	0.0937
K16-372	293.52	NULL	NULL	NULL	NULL	NULL	1928.19	40.624	0.111	2215.24	34.133	0.295	2249.43	20.615	0.177	2356.9	40.855	0.199
K16-372	295.68	NULL	NULL	NULL	NULL	NULL	1924.9	38.338	0.166	2214.96	36.501	0.525	NULL	NULL	NULL	2353.09	42.847	0.323
K16-372	297.8	NULL	NULL	NULL	1543.83	0.00247	1921.41	41.354	0.131	2214.78	34.69	0.395	NULL	NULL	NULL	2341.24	41.023	0.249
K16-372	300.11	NULL	NULL	NULL	1551.12	0.000955	1922.22	39.719	0.0822	2212.96	35.784	0.378	NULL	NULL	NULL	2344.44	42.18	0.205
K16-372	303.23	NULL	NULL	NULL	1548.92	0.00102	1917.18	39.588	0.126	2215.05	35.406	0.386	NULL	NULL	NULL	2354.68	41.841	0.209
K16-372	306.54	NULL	NULL	NULL	1538.39	0.0461	1924.88	49.054	0.248	2215.73	34.163	0.169	2255.11	18.717	0.234	2336.79	38.097	0.237
K16-372	310.08	NULL	NULL	NULL	1564.76	0.000385	1923.04	44.693	0.33	2208.82	32.419	0.338	2250.52	21.641	0.153	2350.71	41.367	0.193

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-372	312.59	NULL	NULL	NULL	NULL	NULL	1925.41	40.214	0.181	2214.61	34.097	0.333	NULL	NULL	NULL	2355.65	41.333	0.176
K16-372	315.21	NULL	NULL	NULL	NULL	NULL	1918.36	39.487	0.212	2213.89	34.653	0.378	NULL	NULL	NULL	2353.7	41.183	0.203
K16-372	318.87	NULL	NULL	NULL	1549.24	0.00773	1914.87	37.871	0.0513	2216.32	33.392	0.287	NULL	NULL	NULL	2338.35	40.107	0.173
K16-372	323.46	NULL	NULL	NULL	1540.72	0.0227	1933.22	45.375	0.253	2214.98	34.051	0.294	NULL	NULL	NULL	2343.49	40.073	0.194
K16-372	327.01	1472.56	9.192	0.000867	1565.26	0.00064	1907.09	32.015	0.0362	2215.57	34.129	0.34	NULL	NULL	NULL	2353.43	40.579	0.19
K16-372	329.7	NULL	NULL	NULL	NULL	NULL	1921.2	43.056	0.315	2215.16	34.985	0.365	NULL	NULL	NULL	2341.41	40.688	0.2
K16-372	333.99	NULL	NULL	NULL	1542.1	0.00174	1920.7	39.117	0.102	2216.21	33.571	0.331	2242.08	17.975	0.191	2345.4	40.875	0.208
K16-372	335.54	NULL	NULL	NULL	NULL	NULL	1907.86	32.677	0.0338	2216.22	34.798	0.254	NULL	NULL	NULL	2338.05	41.505	0.136
K16-372	0	NULL	NULL	NULL	1543.76	0.000509	1908.64	35.129	0.114	2214.56	34.519	0.23	NULL	NULL	NULL	2337.61	41.58	0.116
K16-372	0	NULL	NULL	NULL	NULL	NULL	1912.35	36.67	0.352	2212.77	34.625	0.303	NULL	NULL	NULL	2337.8	41.616	0.15
K16-372	336.31	NULL	NULL	NULL	NULL	NULL	1928.45	42.226	0.254	2216.7	34.718	0.432	NULL	NULL	NULL	2345.16	42.434	0.259
K16-372	339.68	NULL	NULL	NULL	NULL	NULL	1910.24	34.646	0.0512	2218.52	32.605	0.313	NULL	NULL	NULL	2354.98	42.279	0.169
K16-372	343.12	NULL	NULL	NULL	NULL	NULL	1929.82	41.824	0.134	2218.03	32.225	0.283	NULL	NULL	NULL	2336.3	42.191	0.142
K16-372	346.64	NULL	NULL	NULL	1567.09	0.000269	1906.35	33.638	0.0628	2218.55	31.698	0.314	NULL	NULL	NULL	2355.03	39.396	0.168
K16-372	350.66	NULL	NULL	NULL	1567	0.00187	1905.46	33.459	0.0456	2218.57	31.166	0.29	NULL	NULL	NULL	2355.96	38.691	0.158
K16-372	352.7	1473.56	13.509	0.0015	NULL	NULL	1919.86	45.235	0.00925	NULL	NULL	NULL	2242.72	21.192	0.00104	2357.77	37.703	0.00449
K16-372	355.18	NULL	NULL	NULL	NULL	NULL	1942.53	41.112	0.0193	2218.24	31.388	0.251	NULL	NULL	NULL	2335.98	40.435	0.166
K16-372	357.93	1492.83	15.306	0.00091	1564.56	0.000643	1921.91	26.365	0.00643	2217.92	29.971	0.121	2241.63	19.375	0.0716	2348.26	37.286	0.0859
K16-372	361.46	NULL	NULL	NULL	1552.28	0.00613	1913.19	31.435	0.0894	2216.28	32.795	0.29	NULL	NULL	NULL	2348.9	39.178	0.2
K16-372	367.12	NULL	NULL	NULL	NULL	NULL	1907.36	27.58	0.0113	2217.09	33.12	0.317	NULL	NULL	NULL	2349.31	40.479	0.191
K16-372	369.98	NULL	NULL	NULL	1549.83	0.00466	1908.25	30.052	0.0235	2218.8	32.249	0.358	NULL	NULL	NULL	2349.61	39.419	0.219
K16-372	373.95	NULL	NULL	NULL	1545.72	0.00253	1906.13	29.924	0.0308	2217.14	33.207	0.334	NULL	NULL	NULL	2349.37	39.367	0.213
K16-372	376.41	NULL	NULL	NULL	1555.77	0.000603	1941.16	35.147	0.0344	2217.72	31.377	0.234	NULL	NULL	NULL	2350.73	36.626	0.141
K16-372	378.64	1477.61	13.547	0.000618	1554.85	0.000645	1917.49	36.926	0.00889	2218.81	29.484	0.161	NULL	NULL	NULL	2358.7	35.461	0.102
K16-372	381.99	1473.67	13.186	0.000587	1548.65	0.00318	1938.23	45.661	0.0147	2215.39	34.412	0.369	NULL	NULL	NULL	2351.33	40.113	0.239
K16-372	386.4	NULL	NULL	NULL	1547.4	0.00282	1909.18	30.932	0.0208	2217.79	33.188	0.356	NULL	NULL	NULL	2349.09	40.439	0.223
K16-372	389.6	1472.52	14.006	0.00207	1553.73	0.00233	1910.49	32.719	0.0331	2218.47	32.213	0.3	NULL	NULL	NULL	2347.44	39.464	0.197
K16-372	392.75	NULL	NULL	NULL	1538.8	0.0026	1907.79	36.067	0.0156	2217.35	32.528	0.249	NULL	NULL	NULL	2346.01	39.309	0.151
K16-372	396	NULL	NULL	NULL	1552.86	0.00456	1910.29	28.639	0.0269	2215.89	33.479	0.349	NULL	NULL	NULL	2348.78	39.398	0.223
K16-372	399.42	NULL	NULL	NULL	1555.01	0.00179	1912.52	38.627	0.0188	2217.07	32.788	0.332	NULL	NULL	NULL	2351.88	38.85	0.214
K16-372	402.39	NULL	NULL	NULL	1552.94	0.00482	1907.09	29.039	0.0252	2217.56	33.093	0.298	NULL	NULL	NULL	2345.48	40.328	0.186
K16-372	405.68	NULL	NULL	NULL	1554.64	0.00308	1907.35	30.359	0.0371	2219.59	31.452	0.344	NULL	NULL	NULL	2352	39.195	0.22
K16-372	408.25	NULL	NULL	NULL	1563.32	0.00105	1908.56	30.311	0.0445	2215.85	32.425	0.26	NULL	NULL	NULL	2350.45	37.146	0.159
K16-372	411.79	NULL	NULL	NULL	1550.2	0.000899	1909.92	32.182	0.106	2209.47	28.698	0.387	NULL	NULL	NULL	2349.38	39.493	0.184
K16-372	413.73	NULL	NULL	NULL	1550.24	0.000762	1941.49	34.863	0.0509	2213.32	33.656	0.226	NULL	NULL	NULL	2348.63	37.124	0.136
K16-372	415.94	NULL	NULL	NULL	1542.53	0.00112	1942.64	35.576	0.0434	2214	32.354	0.236	NULL	NULL	NULL	2349.67	36.855	0.133
K16-372	418.9	NULL	NULL	NULL	1552.56	0.00231	1940.19	34.14	0.0235	2214.62	33.79	0.422	NULL	NULL	NULL	2350.17	38.378	0.269

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-372	423.35	1471.91	14.159	0.00073	1553.05	0.000553	1931	33.789	0.0135	2217.75	31.933	0.277	NULL	NULL	NULL	2349.75	38.081	0.179
K16-372	428.85	NULL	NULL	NULL	1546.06	0.000834	1909.65	31.662	0.0497	2212.42	33.442	0.256	NULL	NULL	NULL	2349.99	37.859	0.148
K16-372	433.43	1473.02	14.78	0.000571	1546.55	0.00142	1941.79	34.798	0.018	2213.4	33.299	0.244	NULL	NULL	NULL	2350.76	37.399	0.147
K16-372	435.66	1473.19	11.986	0.000991	1552.7	0.00126	1912.92	35.69	0.00928	2212.16	33.764	0.336	NULL	NULL	NULL	2349	37.186	0.208
K16-372	439.28	1475.31	15.546	0.00402	1545.34	0.00332	1941.34	40.746	0.0203	2212.98	32.519	0.19	NULL	NULL	NULL	2352.22	36.991	0.114
K16-372	442.14	1475.34	15.414	0.000536	1564.32	0.000525	1922.3	39.542	0.0133	2213.94	32.463	0.263	NULL	NULL	NULL	2352.78	36.359	0.159
K16-372	444.73	NULL	NULL	NULL	1551.93	0.00113	1939.61	36.079	0.0128	2214.26	33.62	0.23	NULL	NULL	NULL	2352.04	38.656	0.133
K16-372	449.09	1471.65	17.623	0.00315	1538.79	0.00254	1942.94	42.093	0.0273	2215.15	32.453	0.149	NULL	NULL	NULL	2355.73	35.276	0.0887
K16-372	454.58	1473.46	16.119	0.000241	1553.94	0.000838	1934.42	36.972	0.0112	2209.57	32.457	0.286	NULL	NULL	NULL	2349.74	34.532	0.168
K16-372	457.95	1471.97	14.417	0.0162	NULL	NULL	1941.41	43.194	0.054	2216.17	31.563	0.194	NULL	NULL	NULL	2341.54	36.752	0.173
K16-372	466.25	1493.4	18.75	0.000468	1557.46	0.000981	1942.07	32.437	0.0151	2216.47	31.23	0.207	NULL	NULL	NULL	2350.02	34.431	0.135
K16-372	0	1497.54	12.5	0.00114	1539.98	0.00222	1941.34	36.051	0.0206	2215.6	31.536	0.208	NULL	NULL	NULL	2350.72	36.922	0.116
K16-372	0	1472.15	13.941	0.000775	1541.19	0.00335	1912.73	36.914	0.0125	2214.13	33.531	0.29	NULL	NULL	NULL	2349.05	38.504	0.178
K16-372	469.21	NULL	NULL	NULL	1550.49	0.003	1909.61	32.347	0.0344	2218.48	31.918	0.359	NULL	NULL	NULL	2349.55	39.241	0.232
K16-372	470.39	1472.67	9.503	0.00119	1554.38	0.00124	1911.48	36.597	0.0539	2214.13	31.749	0.309	NULL	NULL	NULL	2352.02	38.832	0.181
K16-372	472.62	NULL	NULL	NULL	NULL	NULL	1955.61	38.327	0.043	2210.06	36.415	0.0458	2241.74	15.684	0.0418	2330.76	33.844	0.0291
K16-372	475.91	1498.71	8.895	0.000804	1549.04	0.000701	1916.52	35.864	0.00709	2217.34	29.95	0.174	NULL	NULL	NULL	2352.83	35.987	0.112
K16-372	478.13	NULL	NULL	NULL	1556.76	0.00117	1915.68	34.217	0.0064	2219.5	30.002	0.216	NULL	NULL	NULL	2350.57	38.296	0.13
K16-372	481.55	NULL	NULL	NULL	1556.23	0.00129	1933.41	37.208	0.0104	2218.63	31.235	0.277	NULL	NULL	NULL	2345.99	39.807	0.171
K16-372	483.46	NULL	NULL	NULL	1546.17	0.00196	1942.17	34.659	0.078	2216.17	32.634	0.284	NULL	NULL	NULL	2350.91	37.341	0.186
K16-372	485.67	1497.81	18.572	0.000367	1539.23	0.00065	1938.01	32.538	0.0229	2215.76	32.931	0.262	NULL	NULL	NULL	2353.9	37.987	0.168
K16-372	488.19	1477.63	12.898	0.00041	1542.12	0.00109	1921.93	44.758	0.0126	2215.54	32.98	0.24	NULL	NULL	NULL	2350.94	37.877	0.149
K16-372	492.71	1473.84	17.978	0.00126	1558.28	0.000468	1912.7	32.797	0.0176	2212.93	32.839	0.251	NULL	NULL	NULL	2349.83	36.477	0.161
K16-372	493.75	NULL	NULL	NULL	1557.35	0.000636	1942.3	38.446	0.0223	2213.59	32.754	0.258	NULL	NULL	NULL	2349.68	37.124	0.148
K16-372	496.51	1473.36	13.057	0.00094	1538.32	0.000788	1911.64	32.987	0.0232	2215.58	32.024	0.127	2242.13	21.141	0.0844	2339.31	40.96	0.109
K16-372	499.23	NULL	NULL	NULL	1553.19	0.0133	1958.17	19.513	0.0375	2219.62	31.755	0.19	2250.28	20.132	0.18	2344.98	36.646	0.187
K16-372	502.33	1471.79	14.204	0.00163	1553.16	0.000686	1909.21	34.559	0.0103	2219.97	31.602	0.158	2242.92	17.16	0.0977	2351.7	41.488	0.102
K16-372	505.67	NULL	NULL	NULL	1551.16	0.00125	1937.34	43.819	0.042	2218.08	32.439	0.315	NULL	NULL	NULL	2350.27	39.29	0.189
K16-372	508.61	NULL	NULL	NULL	1551.05	0.00491	1908.29	30.077	0.0622	2217.7	33.406	0.393	NULL	NULL	NULL	2347.68	40.078	0.245
K16-372	511.19	NULL	NULL	NULL	1553.27	0.0043	1907.51	31.879	0.0122	2218.77	31.495	0.316	NULL	NULL	NULL	2348.44	38.689	0.194
K16-372	515.31	NULL	NULL	NULL	1545.51	0.003	1914.25	40.311	0.00735	2218.72	31.82	0.341	NULL	NULL	NULL	2346.61	40.325	0.21
K16-372	521.75	NULL	NULL	NULL	1546.78	0.00194	1912.03	37.662	0.0196	2219.87	31.099	0.367	NULL	NULL	NULL	2343.78	41.761	0.217
K16-372	521.89	NULL	NULL	NULL	1544.72	0.00304	1909.38	32.032	0.253	2216.78	32.415	0.396	NULL	NULL	NULL	2348.61	39.889	0.237
K16-372	522.45	NULL	NULL	NULL	1544.79	0.00268	1909	33.22	0.0245	2218.37	32.605	0.352	NULL	NULL	NULL	2347.87	40.096	0.226
K16-372	523.64	NULL	NULL	NULL	NULL	NULL	1922.99	38.652	0.071	2216.75	33.627	0.329	NULL	NULL	NULL	2345.48	40.782	0.196
K16-372	526.67	NULL	NULL	NULL	1537.56	0.0005	1903.06	25.705	0.00169	2183.91	21.466	0.00988	2255.27	12.786	0.000956	2359.01	35.351	0.00607
K16-372	529.33	NULL	NULL	NULL	NULL	NULL	1919.49	44.525	0.216	2208.35	26.384	0.0865	2253.62	18.174	0.117	2343.9	38.48	0.103

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-372	531.67	NULL	NULL	NULL	1552.18	0.0262	1956.7	31.56	0.0718	NULL	NULL	NULL	2253.53	19.133	0.189	2341.84	34.664	0.179
K16-372	533.33	NULL	NULL	NULL	1548.42	0.0164	1944.17	42.586	0.0726	2222.3	29.814	0.0405	2255.24	18.656	0.0971	2341.89	36.269	0.116
K16-372	534.86	1473.22	13.76	0.00242	1567.23	0.000478	1931.36	41.489	0.0338	2214.77	31.543	0.113	NULL	NULL	NULL	2348.17	36.263	0.0715
K16-372	0	NULL	NULL	NULL	1546.69	0.00357	1948.75	32.25	0.0185	2214.35	31.192	0.0881	2243.28	21.153	0.0402	2354.82	34.028	0.0596
K16-372	0	NULL	NULL	NULL	1543.68	0.0011	1940.9	45.282	0.0314	2215.24	30.041	0.0705	2247.94	19.714	0.0425	2349.17	38.736	0.0451
K16-372	536.62	NULL	NULL	NULL	1543.56	0.00823	1945.41	39.789	0.0758	2218.47	30.061	0.0951	2255.05	18.617	0.145	2350.91	34.908	0.141
K16-372	536.77	NULL	NULL	NULL	1568	0.0033	1952.32	35.756	0.0235	2219.68	31.052	0.0487	2253.04	17.177	0.0689	2343.66	37.372	0.0821
K16-372	539.19	NULL	NULL	NULL	NULL	NULL	1931.64	47.253	0.0188	2219.77	30.598	0.0634	2253.68	20.04	0.0628	2355.32	38.367	0.0722
K16-372	541.1	NULL	NULL	NULL	NULL	NULL	1953.8	42.625	0.073	NULL	NULL	NULL	NULL	NULL	NULL	2335.06	38.757	0.252
K16-372	543.19	NULL	NULL	NULL	1538.53	0.00475	1942.56	40.585	0.088	2227.94	30.593	0.0237	2254.28	15.625	0.045	2336.18	34.674	0.0466
K16-372	545.56	NULL	NULL	NULL	1566.92	0.00493	1958.19	30.088	0.0266	2226.59	24.366	0.0364	2254.3	19.202	0.111	2345.27	38.438	0.104
K16-372	547.98	NULL	NULL	NULL	1568.37	0.00142	1923.55	47.499	0.0218	2217.4	32.071	0.105	2250.65	20.714	0.0774	2340.08	39.552	0.0929
K16-372	551.2	NULL	NULL	NULL	1539.79	0.00302	1912.94	39.835	0.0696	2226.72	35.672	0.0202	2254.02	16.989	0.0552	2352.44	35.967	0.0416
K16-372	553.73	1473.62	18.323	0.00703	1548.46	0.00586	1940.29	33.468	0.05	2223.54	30.471	0.0385	2241.02	16.109	0.035	2322.53	33.414	0.0208
K16-372	556.29	1473.19	12.096	0.00846	1548.09	0.0111	1949.86	36.156	0.0485	NULL	NULL	NULL	2253.12	19.103	0.121	2337.71	34.572	0.151
K16-372	559.6	NULL	NULL	NULL	1541	0.00929	1941.72	37.292	0.188	2209.04	26.69	0.106	2252.92	18.278	0.107	2344.67	37.651	0.101
K16-372	562.97	NULL	NULL	NULL	1553.66	0.00801	1917.72	45.05	0.128	NULL	NULL	NULL	2256.63	20.294	0.164	2355.67	37.377	0.154
K16-372	565.31	1473.27	13.148	0.000459	1539.52	0.000387	NULL	NULL	NULL	NULL	NULL	NULL	2244.3	14.475	0.00587	2358.02	39.314	0.00768
K16-372	568.23	1471.38	12.874	0.000804	NULL	NULL	1901.23	24.28	0.00077	NULL	NULL	NULL	2240.85	16.248	0.000558	2355.5	32.286	0.00696
K16-372	571.17	NULL	NULL	NULL	1546.21	0.014	1948.87	44.078	0.0754	2219.69	31.267	0.129	2252.09	18.58	0.132	2341.43	36.444	0.163
K16-372	574.79	NULL	NULL	NULL	1554.89	0.00441	1957.44	28.42	0.0214	NULL	NULL	NULL	2255.29	19.894	0.0838	2343.37	35.549	0.0846
K16-372	577.43	NULL	NULL	NULL	1558.4	0.00406	1958.14	34.919	0.0213	NULL	NULL	NULL	2256.75	20.999	0.0844	2347.51	37.421	0.0805
K16-372	580.97	NULL	NULL	NULL	1537.6	0.00386	1954.13	33.464	0.0247	2216.35	32.943	0.0373	2248.22	16.127	0.0448	2354.86	38.489	0.0355
K16-372	583.29	1491.11	17.49	0.0201	1568.58	0.0249	1940.88	30.621	0.0683	2220.76	32.047	0.066	2246.21	15.488	0.0598	2327.22	34.029	0.0523
K16-372	589.08	1497.51	15.621	0.0165	1553.62	0.0169	1947.25	37.984	0.0436	2210.18	32.295	0.0406	2251.29	13.47	0.0344	2326.96	28	0.0419
K16-372	592.64	NULL	NULL	NULL	1568.23	0.0135	1941.7	37.167	0.0302	2211.24	28.677	0.046	2248.1	15.439	0.0427	2332.13	35.254	0.0376
K16-372	595.81	NULL	NULL	NULL	1547.71	0.0141	1920.75	49.804	0.0708	2208.5	30.608	0.18	2254.86	17.518	0.141	2351.48	36.172	0.16
K16-372	0	NULL	NULL	NULL	1550.93	0.00683	1919.2	48.991	0.0551	2209.16	32.318	0.163	2254.55	17.4	0.14	2345.48	37.518	0.155
K16-374	8.8	NULL	NULL	NULL	1556.52	0.0108	NULL	NULL	NULL	2210.65	34.434	0.156	2255.08	17.724	0.162	2347.21	36.718	0.169
K16-374	13.3	NULL	NULL	NULL	1557.67	0.0172	NULL	NULL	NULL	2210.98	34.06	0.161	2253.95	17.669	0.167	2344.71	36.16	0.173
K16-374	16.8	1473.36	18.351	0.0119	1547.21	0.00991	1941.26	36.142	0.0142	2210.84	33.158	0.0199	2266.68	18.355	0.0195	2337.79	28.045	0.0473
K16-374	19.8	1472.65	12.29	0.000784	1545.68	0.000579	1902.68	25.128	0.00286	NULL	NULL	NULL	2243.02	21.124	0.00104	NULL	NULL	NULL
K16-374	24.8	NULL	NULL	NULL	1538.83	0.000443	1922.89	37.062	0.000737	NULL	NULL	NULL	2243.02	24.138	0.000674	2355.38	35.224	0.00649
K16-374	29.6	NULL	NULL	NULL	1552.17	0.0056	1909.23	40.562	0.0184	2211.67	30.433	0.125	2243.93	16.167	0.041	2351.49	38.329	0.0662
K16-374	35	NULL	NULL	NULL	1560.57	0.00905	1958.67	28.004	0.0169	2212.93	32.757	0.0839	2252.53	16.968	0.0765	2339.24	37.804	0.0957
K16-374	39.6	NULL	NULL	NULL	1552	0.0229	1954.17	24.451	0.0434	2213.47	33.881	0.187	2252.69	18.456	0.181	2345.91	37.536	0.183
K16-374	42.1	NULL	NULL	NULL	1554.3	0.0308	NULL	NULL	NULL	2214.3	34.079	0.246	2251.68	19.396	0.212	2345.21	38.418	0.23

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-374	45.1	NULL	NULL	NULL	1558.23	0.0097	1944.49	33.229	0.034	2212.02	32.547	0.0817	2254.87	18.035	0.0986	2346.96	37.221	0.112
K16-374	50.6	NULL	NULL	NULL	1549.92	0.0189	1957.3	25.389	0.0318	2226.3	34.424	0.0603	2255.52	19.754	0.148	2346.31	37.724	0.146
K16-374	55.7	NULL	NULL	NULL	1566.16	0.00546	NULL	NULL	NULL	2211.71	32.268	0.0823	2251.15	19.248	0.0625	2346.9	37.886	0.0743
K16-374	60.8	NULL	NULL	NULL	1556.18	0.0284	1955.81	22.561	0.0396	2211.98	34.277	0.25	2250.66	20.31	0.177	2347.59	37.795	0.204
K16-374	65.8	NULL	NULL	NULL	1562.19	0.00251	1914.91	30.8	0.044	2207.97	21.442	0.135	2257.05	19.188	0.0789	2354.53	38.07	0.0891
K16-374	71.2	NULL	NULL	NULL	1562.29	0.00415	1916.66	36.418	0.117	2207.89	18.828	0.145	2255.45	19.675	0.131	2353.81	36.246	0.131
K16-374	75.8	NULL	NULL	NULL	1547.23	0.000278	1913.95	35.839	0.146	2207.89	25.513	0.25	2250.65	21.38	0.0339	2353.67	37.095	0.0786
K16-374	80.8	1472.14	15.163	0.000596	1558.72	0.00118	1914.7	33.103	0.00985	2213.76	32.126	0.218	NULL	NULL	NULL	2348.16	35.932	0.128
K16-374	85.8	1473.04	17.774	0.00368	1560.63	0.00069	1911.81	37.322	0.0334	2208.39	24.837	0.0862	NULL	NULL	NULL	2354.87	38.528	0.0323
K16-374	90.8	NULL	NULL	NULL	1561.46	0.000709	1918.07	39.612	0.00334	2183.7	23.271	0.00796	NULL	NULL	NULL	2357.55	31.966	0.00671
K16-374	95.8	NULL	NULL	NULL	1539.97	0.000323	1957.33	35.189	0.000772	NULL	NULL	NULL	2240.31	11.102	0.00052	2352.11	36.282	0.00641
K16-374	100.8	NULL	NULL	NULL	1554.04	0.000375	1911.79	32.151	0.092	2211.02	32.44	0.22	NULL	NULL	NULL	2352.19	38.049	0.121
K16-374	105.8	1473.33	12.296	0.00127	1543.08	0.000545	1914.02	32.133	0.0236	2212.41	33.827	0.259	NULL	NULL	NULL	2350.63	38.574	0.149
K16-374	110.8	NULL	NULL	NULL	1550.75	0.00119	1911.28	30.955	0.044	2212.36	33.747	0.303	NULL	NULL	NULL	2350.14	38.617	0.173
K16-374	115.8	NULL	NULL	NULL	1555.11	0.000467	1910.21	33.097	0.138	2209.35	33.901	0.248	NULL	NULL	NULL	2347.84	38.244	0.136
K16-374	120.8	NULL	NULL	NULL	1551.84	0.000922	1912.32	32.693	0.0479	2210.12	32.236	0.247	NULL	NULL	NULL	2348.01	38.406	0.161
K16-374	125.8	NULL	NULL	NULL	1544.12	0.000348	1910.24	33.447	0.142	2209.55	32.854	0.343	NULL	NULL	NULL	2349.28	39.751	0.186
K16-374	130.8	NULL	NULL	NULL	1540.98	0.000315	1910.63	36.844	0.111	2212.63	32.855	0.295	NULL	NULL	NULL	2347.94	39.264	0.167
K16-374	135.8	NULL	NULL	NULL	1537.26	0.000272	1911.46	36.495	0.163	2209.35	30.064	0.323	NULL	NULL	NULL	2345.33	39.653	0.164
K16-374	140.8	1472.04	13.304	0.000762	1555.31	0.00111	1914.59	37.322	0.0204	2216.9	32.029	0.23	NULL	NULL	NULL	2349.32	37.757	0.141
K16-374	145.8	NULL	NULL	NULL	1555.84	0.000313	1910.72	32.814	0.0583	2216.67	33.107	0.269	NULL	NULL	NULL	2349.75	38.996	0.163
K16-374	150.8	1471.84	11.71	0.00103	1556.47	0.000471	1912.06	32.852	0.025	2217.45	32.549	0.249	NULL	NULL	NULL	2351.11	38.959	0.161
K16-374	155.8	NULL	NULL	NULL	1540.29	0.000508	1911.67	33.764	0.0297	2217.66	32.203	0.273	NULL	NULL	NULL	2352.13	39.301	0.17
K16-374	160.8	1472.83	16.539	0.0023	1552.74	0.000502	1911.43	33.61	0.0396	2217.5	33.159	0.286	2243.29	18.908	0.174	2346.96	39.562	0.172
K16-374	165.8	1472.55	17.853	0.00088	1551.2	0.000465	1920.21	37.966	0.0128	2218.67	32.092	0.226	NULL	NULL	NULL	2351.69	38.324	0.139
K16-374	170.8	NULL	NULL	NULL	1541.17	0.00243	1912.55	34.179	0.0176	2219.37	31.307	0.191	2243.32	18.788	0.108	2341.74	39.153	0.124
K16-374	175.8	1472.7	14.997	0.00505	1541.4	0.000527	1941.59	41.167	0.0876	2218.25	32.425	0.201	NULL	NULL	NULL	2346.09	39.129	0.118
K16-374	180.8	NULL	NULL	NULL	1543.88	0.00062	1911.55	33.192	0.0775	2221.16	30.751	0.274	NULL	NULL	NULL	2345.43	40.03	0.169
K16-374	185.8	NULL	NULL	NULL	1545.31	0.000434	1937.53	44.006	0.089	2221.59	29.659	0.271	NULL	NULL	NULL	2347.44	39.398	0.168
K16-374	190.8	NULL	NULL	NULL	NULL	NULL	1911.56	35.216	0.22	2210.66	31.962	0.261	NULL	NULL	NULL	2349.28	39.493	0.144
K16-374	195.8	NULL	NULL	NULL	NULL	NULL	1911.08	33.843	0.194	2221.77	30.862	0.35	NULL	NULL	NULL	2346.73	40.462	0.22
K16-374	200.8	1473.51	15.447	0.000908	1544.93	0.00065	1938.19	40.171	0.0193	2221	28.5	0.135	NULL	NULL	NULL	2347.45	38.612	0.0884
K16-374	205.8	NULL	NULL	NULL	1558.06	0.000347	1911.59	35.154	0.0883	2223.72	28.094	0.258	NULL	NULL	NULL	2347.33	38.963	0.167
K16-374	210.8	NULL	NULL	NULL	1550.53	0.000673	1913.52	40.812	0.0528	2222.03	30.797	0.331	NULL	NULL	NULL	2347	39.952	0.211
K16-374	215.8	NULL	NULL	NULL	NULL	NULL	1913.41	37.806	0.18	2217.16	33.543	0.298	NULL	NULL	NULL	2345.15	40.583	0.171
K16-374	220.8	NULL	NULL	NULL	1541.3	0.000798	1912.93	37.562	0.0171	2219.45	32.19	0.365	NULL	NULL	NULL	2347.43	40.448	0.241
K16-374	225.8	1473.05	21.647	0.000862	1555.6	0.00129	1912.25	33.56	0.012	2220.96	30.513	0.285	2243.26	19.792	0.18	2346.61	39.191	0.181

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-374	230.8	NULL	NULL	NULL	1550.58	0.000503	1910.19	32.609	0.0334	2220.35	30.415	0.276	NULL	NULL	NULL	2349.72	39.002	0.177
K16-374	235.8	NULL	NULL	NULL	1563.54	0.000303	1910.51	32.57	0.0826	2220.44	31.582	0.362	NULL	NULL	NULL	2347.36	40.346	0.223
K16-374	240.8	NULL	NULL	NULL	1563.89	0.000467	1913.22	34.736	0.0438	2221.22	30.256	0.293	NULL	NULL	NULL	2349.97	38.349	0.185
K16-374	245.7	NULL	NULL	NULL	1541.17	0.000614	1948.12	19.965	0.00128	NULL	NULL	NULL	NULL	NULL	NULL	2358.27	36.388	0.00695
K16-374	250.8	1471.95	17.131	0.000662	1539.69	0.000323	1909.3	28.471	0.000876	NULL	NULL	NULL	2251.66	16.51	0.000559	2357.46	36.063	0.00701
K16-374	255.8	1472.36	19.852	0.00136	1557.66	0.00108	1911.86	37.1	0.0359	2221.1	29.678	0.185	2250.52	21.234	0.132	2346.64	39.932	0.144
K16-374	260.8	NULL	NULL	NULL	1567.57	0.000532	1941.64	39.441	0.0205	2221.33	29.261	0.209	NULL	NULL	NULL	2348.32	39.002	0.136
K16-374	265.8	1472.77	15.925	0.000742	1553.69	0.000648	1941.91	43.662	0.0229	2220.49	30.923	0.302	NULL	NULL	NULL	2349.2	39.122	0.2
K16-374	270.8	1472.98	13.565	0.000818	1559.4	0.000331	1928.38	36.519	0.018	2221.1	29.195	0.213	NULL	NULL	NULL	2346.72	38.562	0.138
K16-374	275.8	NULL	NULL	NULL	1553.07	0.00027	1929.32	39.284	0.0212	2220.93	29.632	0.264	NULL	NULL	NULL	2352.45	38.543	0.16
K16-374	280.8	1472.44	22.632	0.000361	1558.11	0.000366	1920.54	33.345	0.0122	2220.59	28.977	0.193	NULL	NULL	NULL	2347.49	37.625	0.152
K16-374	285.6	NULL	NULL	NULL	1554.54	0.000715	1941.67	34.617	0.0669	2220.47	29.771	0.291	NULL	NULL	NULL	2348.5	38.769	0.192
K16-374	290.8	NULL	NULL	NULL	1539.76	0.00036	1936.32	42.239	0.0195	2220.16	29.665	0.284	NULL	NULL	NULL	2350.86	37.646	0.183
K16-374	295.8	1471.85	17.656	0.00172	1566.53	0.000627	1913.04	34.968	0.0381	2219.59	30.388	0.24	NULL	NULL	NULL	2349.94	38.02	0.154
K16-374	300.8	1480.88	12.566	0.000431	1563.77	0.000526	1947.54	30.836	0.00847	2221.21	28.524	0.0803	2248.67	19.103	0.0685	2336.26	40.124	0.0817
K16-374	305.8	NULL	NULL	NULL	1549.73	0.000338	1909.79	33.321	0.0719	2218.22	31.902	0.226	NULL	NULL	NULL	2346.86	38.985	0.142
K16-374	310.8	NULL	NULL	NULL	1557.62	0.000624	1911.42	35.474	0.0229	2220.12	30.12	0.204	NULL	NULL	NULL	2351.89	37.646	0.131
K16-374	315.8	NULL	NULL	NULL	1566.76	0.000458	1915.5	33.634	0.0244	2219.66	29.792	0.163	NULL	NULL	NULL	2351.17	38.21	0.106
K16-374	320.8	NULL	NULL	NULL	1554.16	0.000238	1909.32	32.799	0.0799	2218.88	31.458	0.229	NULL	NULL	NULL	2349.59	38.406	0.139
K16-374	325.8	NULL	NULL	NULL	1556.89	0.0005	1910.1	30.908	0.0532	2220.54	29.601	0.246	NULL	NULL	NULL	2349.23	38.171	0.153
K16-374	330.8	NULL	NULL	NULL	NULL	NULL	1908.88	30.92	0.152	2219.8	31.942	0.274	NULL	NULL	NULL	2347.54	38.896	0.171
K16-374	335.8	1471.13	13.857	0.000901	NULL	NULL	1914.02	36.182	0.0268	2220.62	30.617	0.281	NULL	NULL	NULL	2349.41	38.858	0.173
K16-374	340.8	NULL	NULL	NULL	1550.6	0.000424	1909.24	32.521	0.0703	2220.24	30.972	0.315	NULL	NULL	NULL	2353.08	38.97	0.191
K16-374	345.8	NULL	NULL	NULL	1549.52	0.00398	1909.46	32.586	0.181	2208.31	24.796	0.23	NULL	NULL	NULL	2346.06	39.121	0.0996
K16-374	350.8	NULL	NULL	NULL	1544.12	0.000855	1908.95	34.92	0.135	2218.48	32.617	0.281	2243.61	19.919	0.179	2348.81	38.067	0.172
K16-374	355.8	NULL	NULL	NULL	1566.76	0.0005	1918.47	33.115	0.0223	2220.78	30.138	0.236	NULL	NULL	NULL	2345.21	39.445	0.167
K16-374	360.6	1496.37	25.214	9.50E-05	1557.95	0.000459	1915.04	35.984	0.0179	2219.02	29.744	0.162	2247.01	20.714	0.102	2346.73	38.976	0.119
K16-374	365.8	NULL	NULL	NULL	1557.8	0.00205	1914.41	34.704	0.0432	2217.03	32.133	0.174	2251.44	20.037	0.135	2343.66	38.697	0.157
K16-374	370.8	NULL	NULL	NULL	1546.63	0.00036	1920.26	36.557	0.00227	NULL	NULL	NULL	2258.99	12.84	0.000494	2356.52	33.612	0.00884
K16-374	375.8	1473.37	17.116	0.000613	NULL	NULL	1911.49	23.119	0.00147	NULL	NULL	NULL	2242.83	19.309	0.000421	2357.1	36.147	0.00737
K16-374	380.8	NULL	NULL	NULL	1541.13	0.000972	1908.13	32.982	0.158	2217.61	32.225	0.285	NULL	NULL	NULL	2348.55	37.661	0.168
K16-374	385.8	NULL	NULL	NULL	NULL	NULL	1908.55	32.003	0.277	2217.21	33.785	0.253	NULL	NULL	NULL	2347.37	37.753	0.145
K16-374	390.8	NULL	NULL	NULL	1540.06	0.000531	1907.69	30.796	0.206	2218.63	31.859	0.251	NULL	NULL	NULL	2347.07	37.979	0.142
K16-374	395.9	NULL	NULL	NULL	1543.78	0.00199	1915.93	37.857	0.0343	NULL	NULL	NULL	2253.94	19.105	0.071	2338.09	35.867	0.106
K16-374	400.8	NULL	NULL	NULL	1543.91	0.000395	1911.67	35.388	0.0358	2218.76	31.806	0.351	NULL	NULL	NULL	2349.53	38.391	0.234
K16-374	405.8	NULL	NULL	NULL	NULL	NULL	1909.16	32.453	0.23	2218.63	31.764	0.317	2243.96	20.115	0.198	2348.35	37.677	0.199
K16-374	410.8	NULL	NULL	NULL	NULL	NULL	1938.16	44.144	0.184	2215.36	32.737	0.152	2243.77	17.213	0.0719	2347.48	35.493	0.0694

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-374	415.8	NULL	NULL	NULL	NULL	NULL	1940.8	38.816	0.328	2210.93	32.52	0.145	NULL	NULL	NULL	2341.35	34.327	0.0312
K16-374	420.8	NULL	NULL	NULL	1540.84	0.00372	1941.46	37.158	0.164	2213.1	33.765	0.271	NULL	NULL	NULL	2347.87	38.324	0.15
K16-374	425.8	1472.75	20.916	0.00872	1542.16	0.00342	1942.22	36.514	0.106	2211.09	32.693	0.201	NULL	NULL	NULL	2349.17	35.199	0.0959
K16-374	430.8	NULL	NULL	NULL	1541.99	0.00137	1911.11	39.783	0.0759	2203.16	31.196	0.21	NULL	NULL	NULL	2348.46	37.171	0.0923
K16-374	435.8	NULL	NULL	NULL	1544.51	0.000616	1942.09	40.164	0.0286	2205.95	32.228	0.247	NULL	NULL	NULL	2350.37	37.504	0.135
K16-374	440.8	1473.63	15.62	0.00351	1547.75	0.00159	1939.56	42.015	0.032	2215.09	30.771	0.11	NULL	NULL	NULL	2347.67	35.487	0.0494
K16-374	445.8	NULL	NULL	NULL	1545.41	0.000488	1911.45	32.67	0.0464	2212.69	33.198	0.248	NULL	NULL	NULL	2348.58	37.372	0.145
K16-374	450.8	NULL	NULL	NULL	1537.95	0.00487	1909.65	31.408	0.115	2207.13	31.27	0.206	NULL	NULL	NULL	2345.88	38.36	0.113
K16-374	455.8	NULL	NULL	NULL	1549.96	0.000459	1911.49	32.071	0.0658	2208.83	32.648	0.297	NULL	NULL	NULL	2348.06	38.007	0.167
K16-374	460.8	1470.59	10.154	0.000806	1540.36	0.000438	1900.58	26.839	0.000669	NULL	NULL	NULL	NULL	NULL	NULL	2352.84	35.028	0.00868
K16-374	465.8	NULL	NULL	NULL	NULL	NULL	1906.65	35.644	0.0347	2210.52	33.558	0.268	NULL	NULL	NULL	2355.73	40.042	0.13
K16-374	470.8	NULL	NULL	NULL	1568.77	0.00186	1910.01	35.529	0.0621	2208.05	26.543	0.264	NULL	NULL	NULL	2356.48	41.581	0.0819
K16-374	475.8	1497.57	16.367	0.000297	1567.24	0.00568	1905.3	31.756	0.0235	2215.6	32.701	0.379	NULL	NULL	NULL	2354.23	38.525	0.209
K16-374	480.8	1473.71	21.821	0.000952	1568	0.00285	1938.36	34.045	0.055	2216.61	31.878	0.246	NULL	NULL	NULL	2356.66	40.404	0.114
K16-374	485.8	NULL	NULL	NULL	1548.21	0.00361	1908.1	47.871	0.0279	2209.36	33.765	0.344	NULL	NULL	NULL	2353.94	39.066	0.176
K16-374	490.8	1497.87	13.429	0.00272	1566.95	0.00761	1908.19	34.162	0.021	2207.39	33.619	0.255	NULL	NULL	NULL	2336.4	41.726	0.12
K16-374	495.8	NULL	NULL	NULL	NULL	NULL	1933.77	42.595	0.165	2212.26	32.401	0.247	NULL	NULL	NULL	2355.12	38.943	0.111
K16-374	500.8	NULL	NULL	NULL	1550.19	0.00621	1918.23	38.503	0.0547	2211.7	33.987	0.307	NULL	NULL	NULL	2355.29	39.265	0.16
K16-374	505.8	NULL	NULL	NULL	1540.53	0.00966	1940.41	39.029	0.142	2213.87	33.515	0.426	NULL	NULL	NULL	2353.47	38.173	0.24
K16-374	510.9	NULL	NULL	NULL	1547.35	0.0075	1910.22	35.155	0.0746	2208.37	33.575	0.272	NULL	NULL	NULL	2358.71	41.571	0.128
K16-374	515.8	NULL	NULL	NULL	1552.94	0.00293	1904.55	31.057	0.0336	2215.04	33.874	0.412	NULL	NULL	NULL	2354.39	38.265	0.229
K16-374	520.8	NULL	NULL	NULL	1540.8	0.00311	1906.76	31.293	0.0463	2213.99	34.423	0.396	NULL	NULL	NULL	2353.54	39.751	0.213
K16-374	525.8	NULL	NULL	NULL	NULL	NULL	1905.07	31.391	0.0301	2212.92	33.748	0.294	NULL	NULL	NULL	2355.69	38.553	0.149
K16-374	530.8	NULL	NULL	NULL	NULL	NULL	1904.55	33.477	0.0305	2211.42	34.225	0.293	NULL	NULL	NULL	2354.32	40.561	0.149
K16-374	535.8	NULL	NULL	NULL	1566.6	0.00521	1904.83	31.96	0.0281	2208.91	34.084	0.318	NULL	NULL	NULL	2354.25	39.58	0.159
K16-374	540.7	1499.71	13.391	0.011	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2243.14	18.941	0.0565	2328.33	37.031	0.034
K16-374	545.9	NULL	NULL	NULL	1540.46	0.00266	1917.99	34.151	0.0157	2214.74	32.301	0.173	NULL	NULL	NULL	2349.1	36.324	0.0988
K16-374	550.8	NULL	NULL	NULL	1547.97	0.00149	1916.51	35.58	0.0156	2214.03	32.775	0.182	NULL	NULL	NULL	2352.81	37.451	0.105
K16-374	555.8	1472.62	14.952	0.00486	NULL	NULL	1928.99	38.484	0.0156	2215.77	32.866	0.181	NULL	NULL	NULL	2350.23	35.968	0.108
K16-374	560.8	1470.85	13.849	0.00478	1556.82	0.000584	1938.79	42.505	0.0233	2214.57	31.96	0.174	NULL	NULL	NULL	2345.97	37.98	0.102
K16-374	565.8	NULL	NULL	NULL	1548.51	0.000441	1942.46	38.423	0.0232	2213.84	31.663	0.177	NULL	NULL	NULL	2345.57	37.745	0.0992
K16-374	570.8	1470.14	16.312	0.00473	1550.29	0.000555	1939.66	38.631	0.023	2214.19	32.029	0.162	NULL	NULL	NULL	2346.1	37.834	0.096
K16-374	575.8	NULL	NULL	NULL	NULL	NULL	1915.57	39.143	0.118	2209.92	33.213	0.294	NULL	NULL	NULL	2348.57	39.226	0.17
K16-374	580.8	NULL	NULL	NULL	NULL	NULL	1913.46	38.773	0.113	2209.68	33.517	0.305	NULL	NULL	NULL	2348.4	38.112	0.182
K16-374	585.8	NULL	NULL	NULL	NULL	NULL	1914.39	38.531	0.118	2209.57	33.145	0.309	NULL	NULL	NULL	2346.2	39.058	0.181
K16-374	590.8	NULL	NULL	NULL	1538.43	0.00461	1933.49	44.42	0.0518	2214.36	33.518	0.3	NULL	NULL	NULL	2348.28	38.674	0.178
K16-374	595.8	NULL	NULL	NULL	1546.91	0.0046	1934	44.394	0.0449	2214.26	33.845	0.304	NULL	NULL	NULL	2349.78	38.968	0.177

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-374	600.8	NULL	NULL	NULL	1539.37	0.00454	1936.21	44.135	0.0437	2214.49	33.608	0.304	NULL	NULL	NULL	2350.52	38.378	0.179
K16-374	605.9	1473.31	14.2	0.00245	1550.98	0.00212	1911.38	34.365	0.0107	2213.47	32.677	0.298	NULL	NULL	NULL	2350.96	37.076	0.176
K16-374	610.8	1472.5	11.972	0.00234	1551.21	0.00235	1920.26	36.477	0.00866	2213.59	32.539	0.309	NULL	NULL	NULL	2350.23	36.736	0.186
K16-374	615.8	NULL	NULL	NULL	1540.2	0.00261	1913.49	28.913	0.0108	2213.73	32.869	0.311	NULL	NULL	NULL	2350.38	36.684	0.189
K16-374	620.8	1472.47	17.92	0.00401	1546.62	0.00344	1915.73	38.305	0.0167	2213.19	33.297	0.23	NULL	NULL	NULL	2348.74	37.342	0.139
K16-374	625.8	NULL	NULL	NULL	1555.14	0.00263	1931.36	34.785	0.0156	2212.94	33.254	0.226	NULL	NULL	NULL	2350.45	36.805	0.137
K16-374	630.8	NULL	NULL	NULL	1552.84	0.00357	1910.08	40.687	0.0152	2213.88	33.24	0.232	NULL	NULL	NULL	2348.75	37.991	0.133
K16-374	635.9	1473.74	15.871	0.00942	1543.85	0.0066	1938.64	39.511	0.0318	2215.01	31.544	0.236	NULL	NULL	NULL	2349.2	34.762	0.143
K16-374	640.8	1470.53	16.468	0.00844	1547.1	0.00623	1943.01	40.194	0.0273	2215.28	31.472	0.237	NULL	NULL	NULL	2349.63	35.052	0.146
K16-374	645.8	NULL	NULL	NULL	1539.63	0.00532	1943.7	36.376	0.0302	2214.91	31.547	0.232	NULL	NULL	NULL	2352.43	35.857	0.136
K16-374	650.8	NULL	NULL	NULL	1556.28	0.00507	1916.66	43.435	0.0111	2213.21	31.966	0.155	NULL	NULL	NULL	2348.76	35.155	0.0886
K16-374	655.8	1472.81	15.541	0.00611	NULL	NULL	1938.62	39.79	0.0105	2212.66	32.111	0.155	NULL	NULL	NULL	2347.56	36.073	0.0858
K16-374	660.8	NULL	NULL	NULL	1547.11	0.00544	1920.99	34.111	0.0112	2213.77	31.645	0.185	NULL	NULL	NULL	2349.46	35.345	0.11
K16-374	665.8	NULL	NULL	NULL	NULL	NULL	1937.93	45.245	0.153	2202.66	31.031	0.0326	2240.84	14.502	0.0161	2328.05	32.824	0.00821
K16-374	670.8	NULL	NULL	NULL	NULL	NULL	1932.42	46.238	0.173	2188.04	35.867	0.0285	2244.52	14.253	0.0119	2325.13	21.857	0.00807
K16-374	675.8	NULL	NULL	NULL	NULL	NULL	1934.03	45.85	0.164	2196.7	34.744	0.0329	2241.64	12.165	0.0171	2320.7	40.073	0.00728
K16-374	680.8	NULL	NULL	NULL	NULL	NULL	1932.85	46.277	0.246	2217.88	25.095	0.0144	2264.92	11.865	0.00265	2337.69	35.053	0.0437
K16-374	685.8	NULL	NULL	NULL	NULL	NULL	1932.01	46.499	0.228	2211.08	23.789	0.0107	2254.9	17.4	0.00235	2339.51	31.348	0.0309
K16-374	690.8	NULL	NULL	NULL	NULL	NULL	1931.49	47.275	0.24	2209.89	32.666	0.00933	2265.22	15.45	0.00282	2339.24	32.282	0.0415
K16-374	695.8	NULL	NULL	NULL	1551.82	0.00343	1916.06	38.738	0.0274	2215.96	33.773	0.239	NULL	NULL	NULL	2346.83	40.137	0.135
K16-374	700.7	NULL	NULL	NULL	1551.24	0.0031	1914.22	37.929	0.0276	2215.84	33.38	0.24	NULL	NULL	NULL	2347.71	39.576	0.139
K16-374	705.8	NULL	NULL	NULL	1547.55	0.00312	1914.83	39.946	0.0243	2215.49	33.814	0.237	NULL	NULL	NULL	2351.7	40.019	0.139
K16-374	710.8	NULL	NULL	NULL	1550.56	0.00184	1912.08	35.283	0.034	2217.62	32.601	0.234	NULL	NULL	NULL	2349.32	39.572	0.134
K16-374	715.8	NULL	NULL	NULL	1546.83	0.00233	1912.2	35.018	0.033	2218.16	32.442	0.234	NULL	NULL	NULL	2346.52	40.349	0.13
K16-374	720.8	NULL	NULL	NULL	1547.77	0.00226	1912.16	34.329	0.0319	2217.76	32.445	0.234	NULL	NULL	NULL	2348.36	39.221	0.139
K16-374	725.8	NULL	NULL	NULL	1552.8	0.000624	1916.76	39.751	0.0372	2216.81	32.326	0.214	NULL	NULL	NULL	2350.9	39.085	0.125
K16-374	730.8	NULL	NULL	NULL	1545.78	0.000558	1919.47	42.264	0.0468	2216.71	32.643	0.25	NULL	NULL	NULL	2348.81	39.637	0.145
K16-374	735.8	NULL	NULL	NULL	1558.66	0.000599	1913	41.839	0.0461	2216.34	33.029	0.267	NULL	NULL	NULL	2348.02	40.112	0.162
K16-374	740.8	NULL	NULL	NULL	NULL	NULL	1941.86	41.657	0.0188	2220.11	29.46	0.203	NULL	NULL	NULL	2342.55	40.52	0.125
K16-374	745.8	NULL	NULL	NULL	NULL	NULL	1941.42	40.09	0.0145	2219.87	29.716	0.221	NULL	NULL	NULL	2345.35	39.82	0.134
K16-374	750.8	1472.95	15.589	0.0152	1538.8	0.00414	1940.38	41.205	0.0152	2220.1	29.505	0.222	NULL	NULL	NULL	2347.01	39.716	0.133
K16-374	755.8	NULL	NULL	NULL	1543.78	0.0126	1917.88	37.457	0.0354	2219.14	32.072	0.235	NULL	NULL	NULL	2341.37	41.278	0.143
K16-374	760.8	NULL	NULL	NULL	NULL	NULL	1919.37	44.165	0.0291	2219.19	31.13	0.198	NULL	NULL	NULL	2339.3	39.799	0.128
K16-374	765.8	NULL	NULL	NULL	1539.58	0.0061	1910.52	34.857	0.0398	2218.97	32.574	0.271	NULL	NULL	NULL	2344.01	40.918	0.163
K16-374	770.8	1471.91	15.859	0.00473	1549.76	0.0039	1926.32	33.974	0.0117	2220.02	28.172	0.111	NULL	NULL	NULL	2352.17	35.5	0.063
K16-374	775.9	1472.29	13.563	0.00248	1549.83	0.00194	1934.3	34.406	0.0105	2219.11	27.757	0.11	NULL	NULL	NULL	2349.44	36.401	0.0656
K16-374	780.8	NULL	NULL	NULL	1547.17	0.00331	1919.95	43.232	0.00978	2219.63	27.681	0.111	2243.79	17.174	0.0488	2350.83	35.468	0.0645

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-374	785.8	NULL	NULL	NULL	1551.64	0.000502	1912.51	33.715	0.0555	2218.8	31.494	0.281	NULL	NULL	NULL	2350.53	39.185	0.187
K16-374	790.8	NULL	NULL	NULL	1549.85	0.000358	1912.53	33.576	0.0506	2219.36	31.266	0.262	NULL	NULL	NULL	2352.17	38.996	0.172
K16-374	795.8	NULL	NULL	NULL	1559.83	0.000416	1912.77	33.119	0.0542	2219.2	31.3	0.282	NULL	NULL	NULL	2350.9	39.031	0.186
K16-374	800.8	NULL	NULL	NULL	1540.64	0.00585	1915.69	33.529	0.0158	2219.61	31.445	0.301	NULL	NULL	NULL	2349.16	40.202	0.189
K16-394	0	NULL	NULL	NULL	NULL	NULL	1913.09	35.839	0.0171	2219.12	31.483	0.302	NULL	NULL	NULL	2350.88	40.199	0.188
K16-394	7.15	NULL	NULL	NULL	NULL	NULL	1917.13	35.335	0.0156	2218.91	31.511	0.305	NULL	NULL	NULL	2345.98	40.849	0.193
K16-394	10.36	NULL	NULL	NULL	NULL	NULL	1935.24	43.185	0.026	2215.94	33.268	0.233	NULL	NULL	NULL	2349.86	38.912	0.141
K16-394	12.12	NULL	NULL	NULL	1540.93	0.00145	1935.14	44.257	0.0246	2215.72	33.069	0.24	NULL	NULL	NULL	2349.2	39.249	0.144
K16-394	14.73	NULL	NULL	NULL	1540.47	0.00183	1929.28	45.149	0.0241	2216.76	33.044	0.251	NULL	NULL	NULL	2351.56	38.468	0.153
K16-394	17.15	NULL	NULL	NULL	1553.76	0.00111	1957.37	34.288	0.0112	2215.15	31.339	0.0518	2256.06	17.736	0.0595	2340.44	36.289	0.0747
K16-394	26.4	NULL	NULL	NULL	1551.04	0.00113	1952.12	32.889	0.0118	2216.05	31.193	0.0533	2254.66	18.43	0.06	2342.55	38.329	0.075
K16-394	33.18	NULL	NULL	NULL	1546.45	0.00133	1956.41	33.54	0.011	2216.99	32.468	0.0544	2256	18.371	0.0631	2345.84	39.549	0.0738
K16-394	35.14	1472.25	13.789	0.0114	1546.98	0.00897	1941.71	37.811	0.0478	2218.95	33.932	0.0231	2249.29	18.291	0.0705	2335.93	37.47	0.117
K16-394	38.28	1470.13	14.619	0.0099	1539.68	0.00689	1943.17	36.977	0.0453	2207.5	30.972	0.0226	2250.11	16.789	0.0699	2335.03	35.759	0.121
K16-394	41.34	1472.83	14.321	0.00915	1541.35	0.00829	1944.34	37.16	0.0477	2212.46	32.32	0.0323	2252.24	18.385	0.0755	2337	38.567	0.115
K16-394	43.62	NULL	NULL	NULL	1553.51	0.00235	1945.33	39.08	0.0342	2210.57	34.319	0.0878	2249.84	19.968	0.078	2346.27	38.287	0.104
K16-394	49.29	NULL	NULL	NULL	1550.09	0.0026	1945.93	39.334	0.0334	2212.83	34.27	0.0887	2249.59	18.843	0.0885	2340.21	37.792	0.118
K16-394	50.38	NULL	NULL	NULL	1566.06	0.00162	1945.85	38.034	0.0369	2210.29	35.037	0.1	2249.77	20.199	0.0866	2341.42	41.167	0.11
K16-394	55.58	1474.8	14.342	0.00268	1558.67	0.00062	1939.19	39.29	0.0288	2209.62	33.217	0.0772	2249.2	19.03	0.0694	2336.77	41.439	0.092
K16-394	64.37	1473.85	14.332	0.00195	1556.19	0.000833	1943.67	41.582	0.0275	2209.63	33.339	0.078	2248.7	18.897	0.074	2335.53	41.792	0.0922
K16-394	69	1470.56	13.129	0.00187	1557.8	0.000843	1934.49	41.455	0.0297	2208.76	34.741	0.0787	2249.12	19.039	0.0755	2335.31	40.642	0.098
K16-394	72.32	NULL	NULL	NULL	1554.36	0.00245	1914.13	33.298	0.0348	2210.11	34.069	0.201	2245.61	19.253	0.106	2348.38	39.616	0.142
K16-394	0	1472.91	14.522	0.00265	1560.46	0.00156	1912.19	35.654	0.0344	2210.94	34.655	0.21	2245	18.636	0.11	2348.19	40.397	0.152
K16-394	0	NULL	NULL	NULL	1565.7	0.00161	1914.45	31.93	0.0335	2209.87	34.442	0.217	2242.06	18.637	0.108	2343.5	39.962	0.148
K16-394	74.45	NULL	NULL	NULL	1547.32	0.000838	1913.61	36.356	0.0344	2211.49	34.173	0.242	NULL	NULL	NULL	2349.61	39.296	0.15
K16-394	77.05	NULL	NULL	NULL	1554.11	0.000488	1917.73	38.598	0.0329	2212.83	34.192	0.228	NULL	NULL	NULL	2347.96	39.546	0.143
K16-394	80.75	NULL	NULL	NULL	1563.54	0.00148	1916.18	35.796	0.0332	2211.72	34.506	0.243	NULL	NULL	NULL	2347.86	38.011	0.159
K16-394	84.78	1472.69	13.873	0.000362	1554.26	0.000421	1913.75	40.424	0.0113	2211.27	32.924	0.202	2243.6	17.246	0.085	2349.25	36.874	0.129
K16-394	122.45	NULL	NULL	NULL	1548.05	0.000738	1920.02	39.267	0.00976	2211.55	33.783	0.21	NULL	NULL	NULL	2349.91	38.497	0.131
K16-394	125.16	1474.96	13.93	0.000303	1560.89	0.00102	1917.33	40.692	0.00915	2211.9	33.387	0.2	NULL	NULL	NULL	2351.25	38.064	0.127
K16-394	130.17	NULL	NULL	NULL	1554	0.000694	1910.67	32.409	0.0803	2211.48	33.994	0.261	NULL	NULL	NULL	2347.86	37.787	0.153
K16-394	132.15	NULL	NULL	NULL	1564.18	0.000334	1911.04	34.114	0.0799	2211.6	34.119	0.269	NULL	NULL	NULL	2347.74	39.147	0.156
K16-394	135.22	NULL	NULL	NULL	1563.2	0.000358	1911.31	34.606	0.0724	2211.29	34.002	0.261	NULL	NULL	NULL	2348.96	38.691	0.152
K16-394	138.33	1474.59	14.941	0.00141	1565.22	0.00312	1947.92	42.465	0.0126	2215.01	32.708	0.147	2250.1	20.33	0.101	2354.44	39.243	0.127
K16-394	141.49	NULL	NULL	NULL	1560.97	0.00253	1946.02	44.126	0.0106	2216.57	33.16	0.142	2248.93	21.453	0.0923	2350.39	39.288	0.113
K16-394	144.78	1470.9	15.559	0.000861	1566	0.00298	1948.47	35.29	0.00969	2216.81	33.027	0.144	2250.75	20.471	0.0946	2344.61	38.167	0.119
K16-394	144.83	1473.43	14.439	0.00499	1556.68	0.000614	1911.93	32.511	0.0637	2212.79	33.255	0.242	NULL	NULL	NULL	2345.73	38.418	0.142

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-394	145.09	NULL	NULL	NULL	1540.17	0.003	1909.78	31.304	0.0724	2211.59	32.966	0.219	NULL	NULL	NULL	2345.14	37.519	0.129
K16-394	0	1472.93	16.455	0.0137	1540.4	0.00306	1911.65	33.774	0.0714	2211.12	32.794	0.215	NULL	NULL	NULL	2344.93	38.341	0.121
K16-394	0	NULL	NULL	NULL	1553.63	0.000319	1910.73	31.727	0.0923	2210.17	33.274	0.255	NULL	NULL	NULL	2350.11	38.712	0.149
K16-394	147.97	NULL	NULL	NULL	1563.72	0.000589	1911.73	32.18	0.0903	2210.65	32.512	0.257	NULL	NULL	NULL	2349.71	38.993	0.148
K16-394	152.06	NULL	NULL	NULL	1560.56	0.000366	1912.06	32.779	0.0892	2210.6	33.296	0.263	NULL	NULL	NULL	2351.56	38.548	0.152
K16-394	155.59	1473.82	16.039	0.00764	1548.18	0.00067	1911.65	32.531	0.0934	2214.18	33.79	0.275	NULL	NULL	NULL	2348.82	38.892	0.155
K16-394	158.52	NULL	NULL	NULL	1549.85	0.000931	1911.16	33.359	0.093	2213.44	33.556	0.266	NULL	NULL	NULL	2351.08	38.869	0.154
K16-394	160.82	NULL	NULL	NULL	1553.62	0.000985	1910.77	34.221	0.0928	2214.5	33.503	0.267	NULL	NULL	NULL	2350.63	38.507	0.156
K16-394	164.37	NULL	NULL	NULL	1559.23	0.000385	1911.94	33.834	0.117	2209.58	30.389	0.237	NULL	NULL	NULL	2347.18	37.726	0.124
K16-394	166.39	NULL	NULL	NULL	1566.1	0.000418	1912.55	33.516	0.135	2208.78	26.568	0.236	NULL	NULL	NULL	2351.88	39.272	0.104
K16-394	169.74	NULL	NULL	NULL	1549.92	0.000287	1912.11	33.538	0.121	2209	28.392	0.231	NULL	NULL	NULL	2346.79	36.446	0.118
K16-394	172.22	NULL	NULL	NULL	NULL	NULL	1910.12	32.662	0.124	2211.68	33.949	0.287	NULL	NULL	NULL	2348.36	38.515	0.169
K16-394	179.1	NULL	NULL	NULL	NULL	NULL	1910.07	33.158	0.116	2212.53	33.923	0.281	NULL	NULL	NULL	2348	38.06	0.165
K16-394	180.11	NULL	NULL	NULL	NULL	NULL	1909.96	33.498	0.117	2212.11	33.679	0.284	NULL	NULL	NULL	2346.2	38.808	0.162
K16-394	183.65	NULL	NULL	NULL	1551.89	0.00191	1909.31	32.293	0.145	2210.17	34.776	0.329	NULL	NULL	NULL	2349.21	38.685	0.198
K16-394	186.26	NULL	NULL	NULL	1551.98	0.00142	1909.14	32.611	0.124	2211.05	34.372	0.296	NULL	NULL	NULL	2348.79	38.799	0.17
K16-394	189.35	NULL	NULL	NULL	1553.78	0.0016	1909.3	32.383	0.136	2210.82	34.511	0.32	NULL	NULL	NULL	2349.49	38.726	0.19
K16-394	192.16	NULL	NULL	NULL	1538.62	0.00664	1917.72	34.997	0.012	2213.59	33.369	0.234	NULL	NULL	NULL	2347.03	39.732	0.132
K16-394	195.73	NULL	NULL	NULL	1538.23	0.00401	1917.52	38.412	0.0103	2213.48	33.499	0.257	NULL	NULL	NULL	2347.06	38.733	0.146
K16-394	198.33	NULL	NULL	NULL	1545.51	0.0024	1913.55	39.801	0.00848	2212.85	33.416	0.227	NULL	NULL	NULL	2348.22	37.953	0.13
K16-394	203.67	NULL	NULL	NULL	1553.28	0.00315	1910.5	37.822	0.0384	2209.04	33.851	0.29	NULL	NULL	NULL	2348.11	38.461	0.169
K16-394	205.15	NULL	NULL	NULL	1552.58	0.00328	1911.38	40.734	0.0329	2209.08	33.832	0.282	NULL	NULL	NULL	2349.66	38.489	0.17
K16-394	209.23	NULL	NULL	NULL	1552.23	0.00306	1911.41	39.494	0.0335	2208.58	33.88	0.289	NULL	NULL	NULL	2351.91	39.05	0.167
K16-394	210.63	1470.64	10.552	0.000889	1544.8	0.0029	1919.12	30.065	0.00577	2210.19	33.366	0.231	NULL	NULL	NULL	2346.98	39.027	0.131
K16-394	215.25	NULL	NULL	NULL	1550.19	0.00334	1916.72	34.27	0.00472	2209.8	33.304	0.233	NULL	NULL	NULL	2344.44	37.87	0.135
K16-394	250.86	1471.91	13.085	0.000905	1552.38	0.00222	1914.09	40.445	0.0058	2210.08	33.344	0.242	NULL	NULL	NULL	2351.31	37.145	0.136
K16-394	253.9	NULL	NULL	NULL	1549.14	0.00457	1912.82	41.361	0.0485	2209.18	33.151	0.357	NULL	NULL	NULL	2348.03	37.445	0.211
K16-394	256.35	NULL	NULL	NULL	1549.52	0.00621	1938.17	47.127	0.0346	2209.55	33.619	0.385	NULL	NULL	NULL	2349.29	37.45	0.242
K16-394	258.91	NULL	NULL	NULL	1548.09	0.00304	1912.03	38.197	0.0642	2208.57	31.674	0.313	NULL	NULL	NULL	2347.36	36.903	0.175
K16-394	264.23	NULL	NULL	NULL	1549.15	0.00568	1941.03	41.452	0.0468	2209.89	33.413	0.281	NULL	NULL	NULL	2349.52	36.955	0.167
K16-394	268.27	1472.82	12.948	0.00249	1551.22	0.00519	1942.13	41.325	0.0422	2209.54	33.494	0.283	NULL	NULL	NULL	2345.45	37.812	0.161
K16-394	270.17	NULL	NULL	NULL	1545.89	0.00524	1939.46	40.529	0.0428	2209.87	33.45	0.281	NULL	NULL	NULL	2347.8	37.985	0.161
K16-394	279.32	NULL	NULL	NULL	1550.83	0.0114	1912.83	34.402	0.0197	2208.21	33.735	0.315	NULL	NULL	NULL	2348.58	38.73	0.188
K16-394	0	NULL	NULL	NULL	1547.35	0.0111	1915.37	33.072	0.0178	2209.28	33.599	0.318	NULL	NULL	NULL	2346.79	38.707	0.186
K16-394	0	NULL	NULL	NULL	1552.13	0.0116	1912.53	33.941	0.0174	2209.01	33.398	0.319	NULL	NULL	NULL	2346.36	39.175	0.183
K16-394	279.81	NULL	NULL	NULL	1552.09	0.00891	1933.85	46.737	0.0208	2208.94	33.404	0.3	NULL	NULL	NULL	2345.71	39.646	0.172
K16-394	281.88	NULL	NULL	NULL	1546.5	0.00936	1920.88	41.988	0.0201	2207.78	33.304	0.302	NULL	NULL	NULL	2349.45	38.398	0.181

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-394	285.2	NULL	NULL	NULL	1551.13	0.0093	1919.17	44.862	0.0186	2208.11	33.247	0.303	NULL	NULL	NULL	2347.26	38.881	0.18
K16-394	292.7	NULL	NULL	NULL	1555.15	0.0024	1920.98	36.184	0.0192	2209.06	32.692	0.261	NULL	NULL	NULL	2349.01	36.721	0.147
K16-394	294.66	NULL	NULL	NULL	1550.51	0.00298	1915.04	36.157	0.0176	2209.07	32.822	0.252	NULL	NULL	NULL	2349.22	36.6	0.147
K16-394	297.57	NULL	NULL	NULL	1548.93	0.00268	1916.4	40.717	0.0153	2208.89	32.679	0.256	NULL	NULL	NULL	2349.52	37.05	0.145
K16-394	300.7	1497.26	22.027	0.000336	1552.86	0.00409	1945.6	40.559	0.0176	2210	32.517	0.305	NULL	NULL	NULL	2347.41	36.623	0.182
K16-394	306.06	NULL	NULL	NULL	1554.19	0.00379	NULL	NULL	NULL	2210.4	32.696	0.284	NULL	NULL	NULL	2349.76	36.812	0.166
K16-394	310.19	NULL	NULL	NULL	1552.33	0.0031	1938.29	36.803	0.0165	2209.76	32.77	0.3	NULL	NULL	NULL	2347.51	37.144	0.176
K16-394	313.2	1470.64	10.539	0.000911	1551.35	0.00533	1944.41	41.611	0.0161	2208.22	33.399	0.306	NULL	NULL	NULL	2350.27	37.774	0.183
K16-394	317.08	NULL	NULL	NULL	1549.82	0.00494	1938.3	38.615	0.0176	2208.87	33.388	0.308	NULL	NULL	NULL	2349.75	38.282	0.184
K16-394	319.71	NULL	NULL	NULL	1550.75	0.00464	1945.74	37.112	0.0159	2208.79	33.657	0.309	NULL	NULL	NULL	2347.93	38.262	0.181
K16-394	322.85	NULL	NULL	NULL	1544.54	0.00481	1942.44	37.158	0.0576	2209.72	32.758	0.229	NULL	NULL	NULL	2344.3	38.604	0.13
K16-394	327.22	NULL	NULL	NULL	NULL	NULL	1942.28	37.407	0.0548	2208.72	33.183	0.224	NULL	NULL	NULL	2345.55	37.285	0.129
K16-394	330.78	NULL	NULL	NULL	1548.15	0.00482	1940.7	38.04	0.0555	2209.12	33.017	0.233	NULL	NULL	NULL	2347.97	37.409	0.136
K16-394	333.91	NULL	NULL	NULL	NULL	NULL	1934.56	46.599	0.253	2181.6	27.367	0.0111	2257.77	13.462	0.00275	2325.29	33.291	0.00391
K16-394	337.29	NULL	NULL	NULL	NULL	NULL	1936	46.474	0.247	2182.67	25.471	0.0109	NULL	NULL	NULL	2334.08	27.722	0.00542
K16-394	340.11	NULL	NULL	NULL	NULL	NULL	1934.02	46.369	0.251	2184.32	26.275	0.0103	2257.96	18.353	0.00217	2324.85	22.199	0.00642
K16-394	343.5	NULL	NULL	NULL	1537.86	0.0093	1943.79	36.997	0.154	2208.75	32.568	0.255	NULL	NULL	NULL	2348.87	36.117	0.131
K16-394	346.8	NULL	NULL	NULL	NULL	NULL	1942.67	36.8	0.157	2207.99	32.308	0.269	NULL	NULL	NULL	2349.84	36.378	0.136
K16-394	347.6	1473.29	24.105	0.0145	NULL	NULL	1943.43	36.555	0.145	2208.37	32.306	0.252	NULL	NULL	NULL	2350.22	35.558	0.129
K16-394	350.3	1472.97	18.027	0.00209	NULL	NULL	1943.83	37.727	0.0284	2207.32	31.022	0.137	NULL	NULL	NULL	2347.44	35.35	0.0712
K16-394	353.72	NULL	NULL	NULL	1554.52	0.00162	1945.3	34.196	0.0277	2207.68	31.283	0.14	NULL	NULL	NULL	2350.61	33.934	0.0724
K16-394	356.8	NULL	NULL	NULL	1556.15	0.00159	1945.28	36.692	0.0261	2207.87	30.49	0.142	2242.95	15.444	0.0264	2350.83	35.504	0.0748
K16-394	360.09	1473.16	17.165	0.0129	1538.79	0.00759	1940.08	42.317	0.0876	2207.69	32.478	0.186	NULL	NULL	NULL	2345.84	37.454	0.0996
K16-394	362.9	1470.35	16.412	0.0131	NULL	NULL	1940.8	42.221	0.08	2207.22	31.979	0.193	NULL	NULL	NULL	2352.41	37.321	0.104
K16-394	366.01	NULL	NULL	NULL	NULL	NULL	1945.75	42.076	0.0786	2207.88	31.897	0.191	NULL	NULL	NULL	2347.53	37.542	0.101
K16-394	369.25	1471.84	14.168	0.00623	NULL	NULL	1940.92	35.935	0.0438	2208.05	31.603	0.181	NULL	NULL	NULL	2354.58	35.949	0.0928
K16-394	373.33	NULL	NULL	NULL	NULL	NULL	1944.48	34.332	0.0423	2207.62	31.846	0.178	NULL	NULL	NULL	2350.17	35.55	0.093
K16-394	376.59	NULL	NULL	NULL	NULL	NULL	1941.11	34.936	0.0415	2207.53	31.734	0.176	NULL	NULL	NULL	2349.37	36.511	0.0908
K16-394	382.45	NULL	NULL	NULL	1544.49	0.00434	1939.05	38.521	0.0367	2206.58	30.838	0.152	2243.22	14.28	0.0275	2349.41	34.296	0.0798
K16-394	384.13	NULL	NULL	NULL	1543.92	0.00327	1944.94	37.053	0.0346	2208.43	31.474	0.148	NULL	NULL	NULL	2345.85	35	0.0708
K16-394	387.4	NULL	NULL	NULL	NULL	NULL	1947.29	37.659	0.0397	2207.75	30.557	0.161	2243.72	15.211	0.0277	2348.74	34.136	0.0849
K16-394	390.69	NULL	NULL	NULL	1548.77	0.0024	1920.37	35.419	0.00605	2207.7	31.163	0.231	NULL	NULL	NULL	2347.92	34.632	0.128
K16-394	394.18	1471.06	9.615	0.000631	1547.7	0.00178	1921.49	38.428	0.00639	2207.54	30.722	0.2	NULL	NULL	NULL	2345.2	35.457	0.108
K16-394	387.52	1473.97	18.006	0.000742	1545.78	0.00192	1919.68	40.918	0.00666	2208.18	30.737	0.186	NULL	NULL	NULL	2350.73	34.43	0.101
K16-394	400.69	1470.39	11.961	0.00102	1552.62	0.00279	1913.38	30.959	0.00818	2208.47	31.583	0.252	NULL	NULL	NULL	2348.41	36.78	0.145
K16-394	404.78	1470.36	10.105	0.00177	1545.09	0.00302	1918.88	34.134	0.00639	2208.09	31.147	0.247	NULL	NULL	NULL	2348.17	35.396	0.142
K16-394	407.1	NULL	NULL	NULL	1552.79	0.0023	1920.55	32.506	0.00611	2207.32	31.02	0.243	NULL	NULL	NULL	2349.01	33.978	0.14

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-394	409.21	1483.6	20.424	0.00114	1555.7	0.00202	1949.31	44.509	0.0217	2208.25	32.263	0.213	NULL	NULL	NULL	2350.47	35.886	0.126
K16-394	411.22	1477.34	18.811	0.00078	1556.97	0.00287	1937.56	41.413	0.0207	2208.08	32.039	0.216	NULL	NULL	NULL	2349.49	36.369	0.119
K16-394	414.34	1474.19	16.067	0.00119	1550.28	0.00229	1944.88	42.701	0.019	2209.08	32.218	0.218	NULL	NULL	NULL	2351.16	36.379	0.123
K16-394	0	NULL	NULL	NULL	1542.09	0.00276	1936.07	40.834	0.0118	2207.92	32.448	0.244	NULL	NULL	NULL	2349.49	36.829	0.142
K16-394	0	1476.74	16.912	0.000295	1549.28	0.00275	1939.36	38.872	0.0105	2207.76	33.026	0.243	NULL	NULL	NULL	2348.76	36.97	0.142
K16-394	424.44	1473.4	49.112	0.00013	1552.27	0.00277	1939.99	41.337	0.0104	2207.98	32.703	0.241	NULL	NULL	NULL	2348.17	37.276	0.138
K16-394	426.6	1472.54	18.185	0.000456	1556.63	0.00301	1940.16	36.679	0.025	2206.31	32.655	0.237	NULL	NULL	NULL	2347.37	38.596	0.133
K16-394	428.7	1477.99	17.811	0.000493	1549.48	0.00244	1938.71	37.667	0.0249	2206.8	32.627	0.252	NULL	NULL	NULL	2346.47	38.324	0.149
K16-394	430.76	1497.8	16.906	0.000547	1552.03	0.00255	1945.36	36.959	0.0223	2207.56	32.684	0.237	NULL	NULL	NULL	2349.73	36.695	0.139
K16-394	433.1	NULL	NULL	NULL	1549.06	0.0103	1936.99	46.323	0.053	2207.31	32.656	0.311	NULL	NULL	NULL	2347.76	38.231	0.174
K16-394	437.22	NULL	NULL	NULL	1547.8	0.01	1936.81	46.478	0.0525	2207.39	33.011	0.306	NULL	NULL	NULL	2346.13	38.612	0.174
K16-394	438.28	1472.59	13.806	0.00437	1548.73	0.0104	1936.53	45.609	0.0516	2207.88	32.506	0.311	NULL	NULL	NULL	2347.52	38.451	0.176
K16-394	441.2	NULL	NULL	NULL	1550.94	0.00221	1938.55	42.376	0.0179	2208.62	33.031	0.265	NULL	NULL	NULL	2346.87	37.367	0.151
K16-394	445.45	1472.15	16.38	0.00102	1557.9	0.00218	1940.96	40.169	0.0181	2208.45	32.982	0.259	NULL	NULL	NULL	2347.07	37.057	0.149
K16-394	449.91	1473.01	14.555	0.000951	1560.7	0.00199	1944.59	41.686	0.0183	2208.64	33.26	0.288	NULL	NULL	NULL	2347.09	38.144	0.166
K16-394	451.75	NULL	NULL	NULL	1551.07	0.000754	1916.92	32.661	0.0158	2209.94	34.359	0.235	NULL	NULL	NULL	2347.5	38.75	0.135
K16-394	456.53	NULL	NULL	NULL	1555.68	0.00073	1914.26	34.424	0.0144	2209.71	34.545	0.225	NULL	NULL	NULL	2347.13	38.893	0.125
K16-394	461.87	NULL	NULL	NULL	1558.38	0.000766	1915.31	35.105	0.0147	2210.98	34.532	0.224	NULL	NULL	NULL	2349.43	38.517	0.129
K16-394	466.63	1473.5	14.248	0.00397	1556.34	0.00214	1909.25	29.791	0.0693	2211.68	34.197	0.29	NULL	NULL	NULL	2349.23	37.731	0.177
K16-394	470.48	NULL	NULL	NULL	1559.32	0.00168	1910.04	31.027	0.0573	2211.85	33.926	0.276	NULL	NULL	NULL	2346.7	38.583	0.167
K16-394	478.21	NULL	NULL	NULL	1555.22	0.002	1909.22	31.75	0.0682	2211.39	34.03	0.286	NULL	NULL	NULL	2350.9	38.916	0.175
K16-394	401.52	NULL	NULL	NULL	1548.78	0.00122	1912.64	31.573	0.0972	2208.15	21.467	0.151	2248.81	19.841	0.0449	2346.55	38.719	0.0875
K16-394	485.61	NULL	NULL	NULL	1563.43	0.00115	1913.07	32.142	0.097	2208.2	21.729	0.149	2252.45	20.01	0.044	2347.11	40.696	0.0835
K16-394	494.5	1472.94	13.974	0.00447	1549.75	0.00108	1911.82	32.056	0.0948	2208.27	22.455	0.146	2249.01	19.445	0.0407	2349.79	39.568	0.0809
K16-394	497.75	1472.59	14.776	0.000909	1541.11	0.000604	1936.15	44.465	0.0143	2216.12	32.321	0.232	NULL	NULL	NULL	2350.92	36.843	0.146
K16-394	502.27	1479.04	17.378	0.000552	1553.52	0.000958	1936.18	41.157	0.015	2215.63	32.25	0.231	NULL	NULL	NULL	2350.75	37.09	0.143
K16-394	505.58	NULL	NULL	NULL	NULL	NULL	1929.66	42.07	0.0126	2214.89	32.251	0.229	NULL	NULL	NULL	2348.75	37.537	0.141
K16-394	507.53	NULL	NULL	NULL	1550.99	0.00047	1912.58	35.228	0.0158	2211.28	32.425	0.134	NULL	NULL	NULL	2352.22	36.525	0.071
K16-394	510.64	1474.74	14.535	0.00171	1546.18	0.000666	1913.85	43.366	0.0126	2210.12	32.231	0.125	NULL	NULL	NULL	2349.22	35.957	0.0691
K16-394	514.66	1475.67	13.523	0.00193	1545.81	0.000631	1922.68	42.184	0.0128	2211.65	32.291	0.121	NULL	NULL	NULL	2347.83	35.843	0.0661
K16-394	517.34	NULL	NULL	NULL	NULL	NULL	1911.98	32.464	0.0549	2211.21	34.514	0.277	NULL	NULL	NULL	2346.92	39.492	0.161
K16-394	520.46	NULL	NULL	NULL	NULL	NULL	1913.48	33.565	0.0537	2211.48	34.449	0.275	NULL	NULL	NULL	2349.22	39.363	0.161
K16-394	526.88	NULL	NULL	NULL	1539.61	0.00179	1911.2	32.944	0.0523	2210.7	34.338	0.274	NULL	NULL	NULL	2348.43	39.548	0.163
K16-394	534.85	1474.47	15.143	0.00221	1552.55	0.000625	1924.37	42.713	0.0163	2212.3	32.329	0.128	NULL	NULL	NULL	2349.06	35.968	0.0759
K16-394	538.4	1473.17	18.344	0.00214	NULL	NULL	1923.12	37.52	0.016	2212.42	31.599	0.127	NULL	NULL	NULL	2347.67	35.655	0.0764
K16-394	541.5	1471.86	16.106	0.00261	1551.48	0.000935	1919.07	39.008	0.0149	2211.72	32.203	0.123	2243.2	15.211	0.0415	2346.74	37.644	0.0724
K16-394	546.9	NULL	NULL	NULL	1537.79	0.00301	1909.89	31.125	0.109	2211.7	34.017	0.267	NULL	NULL	NULL	2349.79	37.711	0.159

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-394	550.28	NULL	NULL	NULL	NULL	NULL	1909.78	31.85	0.105	2211.52	33.976	0.266	NULL	NULL	NULL	2350.1	37.078	0.16
K16-394	554.7	NULL	NULL	NULL	NULL	NULL	1910.49	31.285	0.108	2211.81	33.727	0.27	NULL	NULL	NULL	2347.01	37.351	0.161
K16-394	557.95	NULL	NULL	NULL	NULL	NULL	1911.25	31.766	0.0842	2212.59	33.042	0.271	NULL	NULL	NULL	2350.42	37.487	0.158
K16-394	562.3	NULL	NULL	NULL	1562.72	0.000534	1911.24	32.483	0.081	2212.95	33.27	0.265	NULL	NULL	NULL	2349.16	37.291	0.159
K16-394	564.5	NULL	NULL	NULL	1552.9	0.00114	1910.87	33.419	0.0878	2212.69	33.059	0.27	NULL	NULL	NULL	2350.18	37.525	0.16
K16-394	0	1474.25	11.018	0.00118	1540.14	0.000324	1928.1	40.225	0.0114	2214.8	30.974	0.136	NULL	NULL	NULL	2354.58	36.802	0.0746
K16-394	0	1477.05	14.445	0.0013	1560.61	0.000935	1917.93	42.573	0.011	2213.43	32.219	0.136	NULL	NULL	NULL	2351.47	37.242	0.0802
K16-394	567.5	1472.11	23.657	0.000944	1562.51	0.000828	1933.38	46.422	0.00978	2212.19	32.486	0.135	NULL	NULL	NULL	2345.99	34.909	0.0842
K16-394	570.17	NULL	NULL	NULL	1539.71	0.00163	1913.87	33.038	0.0446	2213.72	33.575	0.268	NULL	NULL	NULL	2347.53	39.536	0.178
K16-394	573.48	1472.65	15.911	0.00117	1563.11	0.0018	1911.93	32.126	0.0473	2214.19	33.569	0.278	NULL	NULL	NULL	2346.25	39.8	0.176
K16-394	578.8	NULL	NULL	NULL	1551.12	0.00139	1912.22	35.693	0.0437	2214.66	33.936	0.266	NULL	NULL	NULL	2347.04	39.36	0.176
K16-394	583.61	NULL	NULL	NULL	NULL	NULL	1911.6	34.979	0.104	2212.3	34.727	0.389	NULL	NULL	NULL	2346.78	39.56	0.242
K16-394	588.74	NULL	NULL	NULL	NULL	NULL	1911.7	34.96	0.1	2212.27	34.828	0.385	NULL	NULL	NULL	2347.57	39.869	0.243
K16-394	593.51	NULL	NULL	NULL	NULL	NULL	1912.24	35.108	0.109	2212.84	34.839	0.392	NULL	NULL	NULL	2348.69	39.323	0.242
K16-394	596.38	NULL	NULL	NULL	1553.95	0.00325	1909.6	30.591	0.0694	2212.94	34.656	0.385	NULL	NULL	NULL	2347.23	39.686	0.232
K16-394	599.88	NULL	NULL	NULL	1539.59	0.00366	1909.9	31.232	0.0623	2213.26	34.579	0.367	NULL	NULL	NULL	2347.98	39.226	0.22
K16-394	602.92	NULL	NULL	NULL	NULL	NULL	1909.84	31.477	0.0586	2212.79	34.66	0.362	NULL	NULL	NULL	2347.38	39.732	0.221
K16-394	605.88	1470.51	14.759	0.000799	1539.71	0.00041	1917.15	28.953	0.00105	NULL	NULL	NULL	2242.73	52.294	0.000127	2356.04	33.241	0.00737
K16-394	608.52	NULL	NULL	NULL	1545.42	0.0113	1953.82	51.236	0.0788	NULL	NULL	NULL	2256.73	20.08	0.16	2345.85	35.663	0.152
K16-394	611.73	NULL	NULL	NULL	1548.81	0.017	1944.31	47.501	0.11	NULL	NULL	NULL	2256.1	20.395	0.171	2350.1	35.707	0.154
K16-394	614.3	NULL	NULL	NULL	NULL	NULL	1911.35	35.11	0.233	2208.77	25.394	0.132	2251.24	20.131	0.073	2347.25	37.678	0.0789
K16-394	617.46	NULL	NULL	NULL	1546.67	0.018	1950.92	37.495	0.0688	NULL	NULL	NULL	2254.47	19.48	0.17	2342.19	35.37	0.162
K16-394	620.39	NULL	NULL	NULL	1547	0.0372	1954.7	43.579	0.13	NULL	NULL	NULL	2253.39	19.789	0.203	2340.38	33.089	0.191
K16-394	623.13	NULL	NULL	NULL	1552.27	0.0373	1949.06	44.014	0.143	NULL	NULL	NULL	2254.23	19.96	0.24	2341.63	34.584	0.225
K16-394	626.41	NULL	NULL	NULL	1544.33	0.025	1946.8	34.576	0.109	NULL	NULL	NULL	2253.55	18.982	0.18	2340.44	36.214	0.178
K16-394	631.48	NULL	NULL	NULL	1556.1	0.0124	1949.88	44.051	0.0561	2215.25	32.138	0.136	2252.2	18.571	0.143	2347.33	36.418	0.147
K16-394	634.1	NULL	NULL	NULL	1546.01	0.00813	1959.53	31.364	0.03	2215.04	31.948	0.133	2252.7	19.564	0.111	2349.17	36.489	0.123
K16-394	0	NULL	NULL	NULL	1548.61	0.00778	1951.13	30.969	0.0268	2216.93	30.972	0.0876	2252.42	18.85	0.103	2347.47	36.537	0.115
K16-394	0	NULL	NULL	NULL	1539.55	0.0182	1937.84	46.782	0.116	2216.63	31.259	0.119	2251.97	19.143	0.112	2346.59	36.576	0.123
K16-394	637.35	NULL	NULL	NULL	1554.46	0.0165	1953.55	36.506	0.0565	2216.66	32.512	0.134	2254.45	18.401	0.188	2349.62	37.699	0.173
K16-394	640.77	NULL	NULL	NULL	NULL	NULL	1940.89	41.161	0.146	2217.74	31.216	0.141	2248.79	20.851	0.0948	2349	38.075	0.0993
K16-394	643.23	NULL	NULL	NULL	1540.2	0.00755	1913.35	35.52	0.0969	2213.89	33.898	0.219	NULL	NULL	NULL	2345.73	38.161	0.141
K16-394	646.77	NULL	NULL	NULL	1548.25	0.00723	1913.99	39.961	0.0929	2213.17	34.503	0.223	NULL	NULL	NULL	2349.28	38.369	0.146
K16-394	649.62	NULL	NULL	NULL	1549.17	0.0123	1918	52.228	0.0802	2208.5	21.959	0.0608	2256.49	20.511	0.135	2346.99	37.545	0.136
K16-394	652.74	NULL	NULL	NULL	1540.93	0.00774	1913.07	35.075	0.173	2207.47	23.261	0.172	2254.09	19.544	0.101	2344.53	41.401	0.107
K16-394	655.67	NULL	NULL	NULL	1547.15	0.031	1945.78	42.21	0.155	2207.75	19.127	0.0853	2253.4	19.309	0.202	2342.26	36.689	0.182
K16-394	660.73	NULL	NULL	NULL	1554.35	0.0076	1916.4	42.743	0.0813	2210.41	29.851	0.282	NULL	NULL	NULL	2345.34	39.687	0.16

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-394	665.52	1472.87	12.685	0.00957	1547.15	0.00877	1942.39	49.281	0.0671	2212.14	32.703	0.13	2254.63	18.814	0.0929	2351.97	37.356	0.105
K16-394	668.5	NULL	NULL	NULL	1556.89	0.0058	1944.65	36.997	0.0408	2211	31.635	0.0544	2259.06	19.419	0.0974	2357.03	34.449	0.0936
K16-394	671.43	NULL	NULL	NULL	1548.41	0.0215	1951.62	40.575	0.0636	NULL	NULL	NULL	2250.88	16.382	0.137	2337.9	31.475	0.148
K16-394	674.39	1473.63	12.636	0.0156	1539.09	0.0148	1944.32	38.737	0.0729	2220.4	29.91	0.0837	2248.7	18.643	0.0846	2342.1	37.282	0.0922
K16-394	677.25	NULL	NULL	NULL	1538.63	0.0085	1943.91	35.944	0.0465	NULL	NULL	NULL	2249.4	17.497	0.0935	2338.31	33.31	0.101
K16-394	682.76	NULL	NULL	NULL	1548.84	0.00242	1944.1	37.66	0.0369	2218.18	29.529	0.102	2251.95	19.733	0.0766	2348.05	35.397	0.0987
K16-394	686.59	NULL	NULL	NULL	1554.93	0.00679	1947.12	32.194	0.0368	2218.31	30.269	0.0921	2253.35	18.802	0.12	2344.48	36.472	0.122
K16-394	689.54	NULL	NULL	NULL	1546.74	0.00569	1946.46	36.566	0.0452	NULL	NULL	NULL	2253.04	18.535	0.128	2342.34	34.496	0.135
K16-394	694.55	NULL	NULL	NULL	1547.28	0.0218	1946.68	37.812	0.0957	2225.74	29.91	0.1	2252.77	17.158	0.19	2343.17	35.879	0.186
K16-394	0	NULL	NULL	NULL	1549.52	0.0117	1945.72	33.447	0.0519	NULL	NULL	NULL	2253.91	18.614	0.123	2340.08	36.099	0.136
K16-394	0	NULL	NULL	NULL	1538.09	0.0036	1944.79	36.206	0.0298	NULL	NULL	NULL	2253.22	17.456	0.0742	2342.57	34.894	0.0794
K16-394	697.56	NULL	NULL	NULL	1542.31	0.00845	1943.62	44.98	0.0696	2219.47	29.96	0.0907	2251.96	18.431	0.114	2342.96	36.929	0.125
K16-394	700.7	NULL	NULL	NULL	1549.87	0.00635	1946.22	37.931	0.0348	NULL	NULL	NULL	2255.7	20.335	0.115	2341.05	36.99	0.123
K16-394	705.21	NULL	NULL	NULL	1546.62	0.00511	1919.79	47.721	0.0878	2211.5	32.93	0.18	2251.53	21.463	0.0845	2348.95	36.698	0.114
K16-394	710.47	NULL	NULL	NULL	1546.06	0.00569	1945.27	38.663	0.0556	2214.44	32.502	0.156	2254.3	17.67	0.13	2348.65	36.851	0.151
K16-394	715.7	NULL	NULL	NULL	1548.19	0.00294	1901.94	43.105	0.00446	NULL	NULL	NULL	2252.42	15.407	0.000839	2349.1	28.959	0.00777
K16-394	720.29	1470.73	12.76	0.000725	NULL	NULL	1903.21	28.961	0.00136	NULL	NULL	NULL	2242.27	17.077	0.000357	2358.16	34.111	0.00661
K16-394	723.16	NULL	NULL	NULL	1548.6	0.027	1953.36	39.508	0.0961	NULL	NULL	NULL	2253.91	18.624	0.198	2343.91	37.013	0.182
K16-394	726.28	NULL	NULL	NULL	1538.17	0.0147	1946.92	47.236	0.0669	2216.61	31.709	0.178	2248.01	20.532	0.103	2342.67	37.264	0.15
K16-394	729.11	NULL	NULL	NULL	NULL	NULL	1911.85	41.782	0.0503	2218.08	31.808	0.0924	2250.9	19.369	0.0852	2340.75	36.566	0.111
K16-394	733.06	NULL	NULL	NULL	1558.95	0.0109	1921.44	51.433	0.0607	2217.06	32.313	0.148	2250.87	21.038	0.104	2348.83	38.428	0.11
K16-394	735.06	NULL	NULL	NULL	NULL	NULL	1936.16	45.81	0.048	2221.54	33.876	0.0394	2241.41	19.898	0.0276	2330.68	36.676	0.0264
K16-394	739.12	NULL	NULL	NULL	NULL	NULL	1940.19	47.764	0.132	2208.43	24.512	0.0292	2256.66	19.905	0.15	2355.24	37.82	0.135
K16-394	745.85	NULL	NULL	NULL	1538.27	0.00615	1935.84	49.111	0.165	2211.56	32.72	0.085	2254.39	17.149	0.117	2343.37	38.193	0.115
K16-394	748.26	NULL	NULL	NULL	1540.13	0.00516	1924.89	49.197	0.204	2210.8	32.07	0.128	2254.43	17.906	0.116	2350.11	38.216	0.117
K16-394	751.47	NULL	NULL	NULL	1540.39	0.00595	1946.09	38.529	0.0328	2209.12	32.291	0.0471	2250.3	19.488	0.0321	2336.67	33.146	0.0317
K16-394	753.58	NULL	NULL	NULL	1539.95	0.00962	1939.18	45.362	0.0963	2211.49	33.062	0.162	2249.7	20.842	0.0713	2347.12	37.925	0.0994
K16-394	754.69	1470.26	15.217	0.0129	1540.6	0.00969	1932.98	43.598	0.0404	2216.48	31.172	0.0449	2244.76	18.8	0.0246	2338.69	36.961	0.0375
K16-394	756.38	NULL	NULL	NULL	1540.54	0.0291	1945.38	42.905	0.153	2210.98	33.741	0.124	2253.66	17.672	0.164	2343.55	36.858	0.157
K16-394	758.45	NULL	NULL	NULL	NULL	NULL	1940.16	45.829	0.132	2213.23	31.884	0.17	2246.59	20.137	0.0703	2348.12	36.085	0.113
K16-394	759.12	NULL	NULL	NULL	1538.03	0.0104	1938.44	42.918	0.0664	2213.89	32.9	0.0416	2251.72	16.211	0.0276	2340.85	36.766	0.0338
K16-394	761.07	NULL	NULL	NULL	NULL	NULL	1940.42	43	0.0744	2208.57	31.86	0.0292	NULL	NULL	NULL	2335.43	35.029	0.0375
K16-394	764.46	1470.03	15.468	0.00731	1564.05	0.00637	1922.35	43.048	0.027	2211.55	32.742	0.039	2250.35	20.584	0.0306	2330.54	34.129	0.0282
K16-394	767.66	1472.14	18.588	0.0114	1539.35	0.00835	1947.86	42.888	0.0423	2217.6	30.464	0.0375	2251.16	19.478	0.0261	2331.81	37.378	0.0276
K16-394	769.64	NULL	NULL	NULL	1537.04	0.00974	1939.97	34.435	0.0486	2208.93	28.956	0.033	2245.81	18.47	0.0216	2331.48	35.688	0.027
K16-394	772.19	NULL	NULL	NULL	1543.02	0.00301	1919.49	41.746	0.0223	2212.83	33.356	0.226	NULL	NULL	NULL	2349.27	37.07	0.137
K16-394	774.53	NULL	NULL	NULL	NULL	NULL	1935.54	49.223	0.156	2214.23	33.802	0.157	2252.77	18.309	0.136	2340.11	37.223	0.19

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-394	777.87	NULL	NULL	NULL	1538.68	0.0185	1938.52	49.82	0.199	2208.32	23.402	0.0414	2254.89	19.742	0.175	2346.76	36.527	0.154
K16-394	781.32	NULL	NULL	NULL	NULL	NULL	1921.24	44.675	0.134	2208.01	25.234	0.0906	NULL	NULL	NULL	2340.32	40.039	0.0327
K16-394	798.05	NULL	NULL	NULL	NULL	NULL	1927.33	46.05	0.0952	2215.29	32.096	0.214	NULL	NULL	NULL	2350.89	37.311	0.118
K16-394	801.37	NULL	NULL	NULL	1539.03	0.0077	1914.62	40.709	0.15	2212.39	33.041	0.215	NULL	NULL	NULL	2345.96	38.492	0.129
K16-394	804.88	NULL	NULL	NULL	1541.41	0.0539	1948.85	43.609	0.201	NULL	NULL	NULL	2253.09	19.413	0.222	2339.45	32.876	0.203
K16-394	809.87	NULL	NULL	NULL	NULL	NULL	1937.61	47.404	0.133	2214.14	33.128	0.202	2250.35	21.342	0.104	2350.96	38.278	0.124
K16-394	812.39	NULL	NULL	NULL	1546.22	0.0318	1949.41	44.747	0.159	2223.26	30.702	0.134	2251.95	17.087	0.207	2338.44	35.487	0.196
K16-394	815.36	NULL	NULL	NULL	NULL	NULL	1935.67	47.37	0.212	2216.82	32.628	0.183	2249.31	21.176	0.112	2347.32	39.582	0.12
K16-394	819.37	NULL	NULL	NULL	NULL	NULL	1938.07	44.564	0.159	2210.45	33.461	0.0897	2251.67	19.559	0.06	2341.82	38.04	0.0652
K16-394	821.66	NULL	NULL	NULL	1563.06	0.0041	1954.84	47.418	0.0463	2216.51	31.983	0.121	2255.12	17.644	0.128	2347.28	37.959	0.133
K16-394	0	1473.45	14.459	0.00191	1561.09	0.000268	1921.48	34.404	0.0427	2214.29	34.032	0.252	NULL	NULL	NULL	2350.4	39.974	0.155
K16-394	0	1470.44	10.197	0.00151	NULL	NULL	1919.9	37.335	0.0434	2213.81	33.838	0.227	NULL	NULL	NULL	2348.97	38.428	0.14
K16-394	828.34	NULL	NULL	NULL	NULL	NULL	1922.64	45.335	0.119	2214.16	33.418	0.346	NULL	NULL	NULL	2348.38	38.498	0.21
K16-394	830.51	NULL	NULL	NULL	NULL	NULL	1925.14	44.829	0.129	2213.55	33.917	0.324	NULL	NULL	NULL	2348.47	38.875	0.192
K16-394	834.35	1473.7	15.086	0.000881	1537.94	0.000571	1904.05	25.089	0.00327	NULL	NULL	NULL	2240.22	17.099	0.00244	2338.31	37.147	0.00824
K16-394	835.76	NULL	NULL	NULL	NULL	NULL	1903.22	35.459	0.000987	NULL	NULL	NULL	2246.99	14.981	0.000533	NULL	NULL	NULL
K16-394	839.18	NULL	NULL	NULL	NULL	NULL	1926.27	45.351	0.109	2213.94	34.295	0.222	NULL	NULL	NULL	2344.87	39.564	0.138
K16-394	843.73	NULL	NULL	NULL	1540.49	0.000931	1921.25	47.038	0.0928	2213.74	32.999	0.273	NULL	NULL	NULL	2347.6	38.136	0.153
K16-394	844.93	NULL	NULL	NULL	NULL	NULL	1932	48.777	0.437	2211.49	32.98	0.276	NULL	NULL	NULL	2343	38.222	0.154
K16-394	845.69	NULL	NULL	NULL	NULL	NULL	1916.22	40.026	0.0707	2212.93	33.851	0.283	NULL	NULL	NULL	2345.02	39.578	0.149
K16-394	881.55	NULL	NULL	NULL	NULL	NULL	1928.57	47.187	0.175	2213.05	34.213	0.322	NULL	NULL	NULL	2346.88	39.868	0.181
K16-394	890.09	NULL	NULL	NULL	NULL	NULL	1913.57	37.635	0.103	2213.71	33.5	0.332	NULL	NULL	NULL	2348.27	39.101	0.182
K16-394	892.46	NULL	NULL	NULL	NULL	NULL	1920.77	46.829	0.134	2212.79	35.075	0.422	NULL	NULL	NULL	2345.11	40.215	0.263
K16-394	895.75	NULL	NULL	NULL	NULL	NULL	1916.75	39.887	0.163	2212.34	34.218	0.269	NULL	NULL	NULL	2347.54	39.082	0.146
K16-394	896.52	NULL	NULL	NULL	1539.05	0.00147	1926.52	46.496	0.129	2213.83	33.969	0.221	2241.97	21.266	0.114	2344.37	39.666	0.146
K16-394	898.39	NULL	NULL	NULL	NULL	NULL	1920.76	45.625	0.197	2215.56	34.259	0.258	NULL	NULL	NULL	2345.74	38.826	0.148
K16-394	901.81	NULL	NULL	NULL	1542.2	0.000755	1916.23	38.364	0.0889	2210.71	32.714	0.166	2251.08	21.093	0.0907	2346.6	38.976	0.123
K16-394	907.01	NULL	NULL	NULL	1550.34	0.000315	1915.18	39.123	0.132	2209.91	33.382	0.269	NULL	NULL	NULL	2345.73	39.055	0.164
K16-394	910.25	NULL	NULL	NULL	NULL	NULL	1937.5	45.693	0.215	2205.3	31.879	0.219	NULL	NULL	NULL	2339.34	36.231	0.188
K16-394	913.18	NULL	NULL	NULL	NULL	NULL	1925.36	44.396	0.121	2216.12	33.14	0.264	NULL	NULL	NULL	2344.64	40.099	0.146
K16-394	917.16	NULL	NULL	NULL	1555.88	0.000112	1916.13	37.788	0.233	2214.45	34.642	0.292	NULL	NULL	NULL	2343.85	39.172	0.174
K16-394	920.26	NULL	NULL	NULL	NULL	NULL	1937.76	46.419	0.237	2212.52	34.229	0.253	NULL	NULL	NULL	2342.34	38.557	0.144
K16-394	933.2	NULL	NULL	NULL	NULL	NULL	1914.1	38.327	0.237	2214.16	34.908	0.422	NULL	NULL	NULL	2346.9	40.724	0.252
K16-394	935.1	NULL	NULL	NULL	NULL	NULL	1920.91	44.564	0.0825	2213.47	35.084	0.324	NULL	NULL	NULL	2345.8	40.022	0.191
K16-394	939.37	NULL	NULL	NULL	NULL	NULL	1915.35	40.303	0.14	2211.09	33.485	0.24	NULL	NULL	NULL	2345.9	37.597	0.126
K16-394	942.65	NULL	NULL	NULL	NULL	NULL	1918.6	43.622	0.324	2209.33	32.396	0.305	NULL	NULL	NULL	2345.31	39.089	0.158
K16-394	944.18	NULL	NULL	NULL	NULL	NULL	1918.48	43.332	0.426	2205.41	32.069	0.343	NULL	NULL	NULL	2343	39.441	0.199

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-394	952.98	NULL	NULL	NULL	NULL	NULL	1914.04	37.135	0.183	2211.46	34.577	0.289	NULL	NULL	NULL	2343.8	39.564	0.166
K16-394	0	NULL	NULL	NULL	NULL	NULL	1919.11	41.596	0.26	2210.52	34.284	0.345	NULL	NULL	NULL	2343.58	39.676	0.201
K16-406	10	NULL	NULL	NULL	NULL	NULL	1916.1	38.65	0.434	2207.97	28.199	0.425	NULL	NULL	NULL	2342.52	40.154	0.198
K16-406	85	NULL	NULL	NULL	NULL	NULL	1922.7	46.544	0.219	2216.33	34.265	0.331	NULL	NULL	NULL	2347.12	39.621	0.201
K16-406	90	NULL	NULL	NULL	NULL	NULL	1917.83	40.298	0.241	2213.95	35.108	0.318	NULL	NULL	NULL	2345.79	39.383	0.192
K16-406	95	NULL	NULL	NULL	NULL	NULL	1931.95	47.312	0.214	2215.86	33.74	0.26	NULL	NULL	NULL	2344.6	38.661	0.151
K16-406	100	NULL	NULL	NULL	1538.81	0.00056	1902.72	27.325	0.00417	NULL	NULL	NULL	2243.62	14.864	0.00599	2330.42	40.805	0.00894
K16-406	105	NULL	NULL	NULL	1545.13	0.000599	1916.02	37.046	0.0013	NULL	NULL	NULL	NULL	NULL	NULL	2351.24	33.592	0.00711
K16-406	108.2	1489.78	16.12	0.000501	NULL	NULL	1956.01	47.56	0.00929	2214.2	30.437	0.0763	2241.95	18.656	0.0335	2350.43	34.262	0.0443
K16-406	111	1471.34	15.215	0.00158	1564.8	0.000717	NULL	NULL	NULL	2215.25	30.354	0.0877	2240.48	15.349	0.0375	2347.42	37.003	0.047
K16-406	115	1483.32	20.187	0.00108	1550.71	0.00132	1932.91	38.605	0.0142	2215.56	30.369	0.0898	NULL	NULL	NULL	2346.31	36.978	0.0501
K16-406	120	1475.33	14.208	0.000612	1545.07	0.000189	1926.03	40.487	0.0175	2218.73	29.064	0.191	NULL	NULL	NULL	2350.84	37.108	0.121
K16-406	125	NULL	NULL	NULL	1549.94	0.000805	1926.26	41.014	0.0224	2218.09	30.545	0.329	NULL	NULL	NULL	2351.06	37.31	0.203
K16-406	130	NULL	NULL	NULL	1557.98	0.000869	1912.31	35.788	0.0574	2220.1	31.229	0.315	NULL	NULL	NULL	2351.63	40.065	0.2
K16-406	135	NULL	NULL	NULL	1559.96	0.000474	1925.1	42.364	0.0415	2221.17	29.805	0.293	NULL	NULL	NULL	2353.16	39.164	0.179
K16-406	140	NULL	NULL	NULL	1548.99	0.000645	1927.14	42.111	0.0609	2218.93	33.087	0.299	NULL	NULL	NULL	2352.24	40.253	0.179
K16-406	145	NULL	NULL	NULL	1542.24	0.00139	1920.98	43.263	0.125	2218.55	32.881	0.369	NULL	NULL	NULL	2350.03	38.7	0.247
K16-406	150	NULL	NULL	NULL	NULL	NULL	1916.83	34.116	0.0153	2217.87	33.193	0.319	NULL	NULL	NULL	2340.68	41.336	0.201
K16-406	152.7	NULL	NULL	NULL	1541.48	0.00158	1905.76	33.287	0.019	2216.91	33.278	0.332	NULL	NULL	NULL	2352.58	40.311	0.197
K16-406	155	NULL	NULL	NULL	NULL	NULL	1926.76	44.263	0.0748	2216.03	32.609	0.222	NULL	NULL	NULL	2349.74	37.16	0.129
K16-406	160	NULL	NULL	NULL	1547.75	0.00075	1924.77	39.035	0.0431	2215.04	34.078	0.418	NULL	NULL	NULL	2351.02	39.023	0.285
K16-406	163	NULL	NULL	NULL	1552.63	0.000985	1917.53	39.618	0.0651	2220.1	32.131	0.347	NULL	NULL	NULL	2344.7	40.224	0.23
K16-406	165.2	NULL	NULL	NULL	1545.22	0.00124	1908	35.317	0.0437	2219.32	30.826	0.266	NULL	NULL	NULL	2353.54	39.052	0.155
K16-406	170	NULL	NULL	NULL	1552.35	0.00201	1913.48	35.105	0.00517	2218.49	32.662	0.253	NULL	NULL	NULL	2347.42	39.748	0.164
K16-406	175.8	NULL	NULL	NULL	1542.9	0.000466	1911.44	35.447	0.0776	2215.76	33.056	0.294	NULL	NULL	NULL	2349.71	38.619	0.177
K16-406	179	1470.17	9.152	0.000483	1538.18	0.000754	1927.29	34.64	0.0135	2215.45	32.875	0.259	NULL	NULL	NULL	2352.67	38.286	0.151
K16-406	181	1473.07	16.944	0.000271	1545.73	0.00105	1920.01	37.849	0.012	2211.06	33.153	0.276	NULL	NULL	NULL	2348.17	37.006	0.164
K16-406	184	NULL	NULL	NULL	1553.51	0.00147	1914.68	38.23	0.0247	2218.43	32.095	0.287	NULL	NULL	NULL	2348.99	40.085	0.181
K16-406	187	NULL	NULL	NULL	1549.37	0.00108	1915.49	36.705	0.019	2220.19	31.812	0.291	NULL	NULL	NULL	2349.3	40.457	0.179
K16-406	191	NULL	NULL	NULL	1554.53	0.00183	1916.01	34.036	0.0139	2214.48	34.32	0.295	NULL	NULL	NULL	2343.03	39.926	0.189
K16-406	194	1472.86	15.327	0.00457	1545.07	0.00127	1915.14	37.516	0.072	2216.38	34.07	0.345	NULL	NULL	NULL	2349.57	40.293	0.212
K16-406	197	1472.99	14.904	0.000543	1555.95	0.000598	1919.84	38.71	0.0087	2220.12	30.306	0.276	NULL	NULL	NULL	2345.16	39.42	0.167
K16-406	200.4	NULL	NULL	NULL	1542.33	0.000725	1911.11	33.431	0.0733	2214.98	33.389	0.286	NULL	NULL	NULL	2348.5	40.368	0.171
K16-406	200.5	1470.33	11.225	0.00084	1539.79	0.000359	NULL	NULL	NULL	NULL	NULL	NULL	2242.52	11.285	0.000906	2359.94	34.143	0.00745
K16-406	203.6	NULL	NULL	NULL	1552.16	0.00105	1908.87	31.289	0.062	2216.27	34.577	0.378	NULL	NULL	NULL	2348.47	40.035	0.234
K16-406	207	1473.08	18.085	0.000358	1551.15	0.000938	1911.05	32.797	0.0357	2216.11	33.268	0.334	NULL	NULL	NULL	2352.9	40.408	0.194
K16-406	209.8	1473.27	11.936	0.000788	1546.26	0.000721	1910.79	34.354	0.0112	2220.77	30.943	0.377	NULL	NULL	NULL	2348.76	39.242	0.243

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-406	210	NULL	NULL	NULL	1552.51	0.000622	1914.07	38.692	0.045	2215.11	32.771	0.343	NULL	NULL	NULL	2349.55	37.867	0.216
K16-406	213	NULL	NULL	NULL	1554.54	0.000772	1924.37	39.599	0.0379	2216.68	32.572	0.37	NULL	NULL	NULL	2350.34	38	0.244
K16-406	218	NULL	NULL	NULL	1556.07	0.000441	1911.83	37.933	0.0429	2219.91	32.226	0.429	NULL	NULL	NULL	2349.82	40.142	0.282
K16-406	221	NULL	NULL	NULL	1551.55	0.00157	1921.96	40.366	0.0909	2219.31	27.048	0.0935	NULL	NULL	NULL	2351.62	37.021	0.0397
K16-406	224	1470.13	8.646	0.000933	1552.76	0.00321	1904.49	31.351	0.0181	2220.49	31.662	0.421	NULL	NULL	NULL	2349.28	41.444	0.272
K16-406	229	NULL	NULL	NULL	1554.13	0.000495	1909.54	33.129	0.115	2213.67	32.065	0.352	NULL	NULL	NULL	2352.01	40.306	0.203
K16-406	234	NULL	NULL	NULL	1556.53	0.00116	1908.67	32.553	0.0311	2219.1	32.405	0.354	NULL	NULL	NULL	2346.78	41.047	0.219
K16-406	239	1470.51	10.098	0.00132	1554.68	0.00119	1907.52	34.522	0.00808	2220.88	30.88	0.293	NULL	NULL	NULL	2345.94	40.161	0.186
K16-406	244	NULL	NULL	NULL	1555.22	0.00171	1909.83	35.25	0.0148	2221.34	30.911	0.361	NULL	NULL	NULL	2346.7	40.969	0.232
K16-406	249	NULL	NULL	NULL	1556.47	0.0017	1910.39	31.734	0.0601	2219.06	32.44	0.389	NULL	NULL	NULL	2347.9	40.847	0.247
K16-406	253	NULL	NULL	NULL	1556.87	0.00111	1910.49	31.297	0.0452	2214.69	34.21	0.332	NULL	NULL	NULL	2347.49	39.284	0.196
K16-406	256	NULL	NULL	NULL	1554.78	0.00111	1917.53	35.775	0.0256	2215.71	33.043	0.293	NULL	NULL	NULL	2348.87	38.733	0.187
K16-406	259	1470.17	9.821	0.0011	1539.75	0.000575	1922.79	38.496	0.0266	2215.66	32.84	0.25	NULL	NULL	NULL	2351.52	37.234	0.163
K16-406	262	NULL	NULL	NULL	1543.67	0.000457	1917.7	39.292	0.0337	2213.67	34.631	0.386	NULL	NULL	NULL	2348.4	38.868	0.254
K16-406	267	NULL	NULL	NULL	1554.75	0.000517	1917.72	37.58	0.0301	2213.03	34.694	0.365	NULL	NULL	NULL	2350.45	38.922	0.243
K16-406	272	NULL	NULL	NULL	1552.49	0.00124	1919.94	37.18	0.0145	2214.35	32.908	0.267	NULL	NULL	NULL	2348.35	37.772	0.16
K16-406	277	1490.24	14.658	0.00029	1553.74	0.000509	1928.5	39.541	0.0199	2213.22	33.299	0.207	NULL	NULL	NULL	2349.59	37.492	0.123
K16-406	282	NULL	NULL	NULL	1544.57	0.00117	1909.92	34.835	0.00963	2217.35	33.059	0.344	NULL	NULL	NULL	2347	40.389	0.214
K16-406	287	NULL	NULL	NULL	1538.65	0.000984	1912.82	34.455	0.0748	2215.74	30.547	0.155	NULL	NULL	NULL	2347.99	37.676	0.0818
K16-406	292	NULL	NULL	NULL	1545.34	0.000454	1909.48	32.299	0.0693	2215.92	32.626	0.308	NULL	NULL	NULL	2349.34	38.777	0.184
K16-406	297	NULL	NULL	NULL	1555.55	0.00104	1910.35	31.438	0.00675	2222.13	28.245	0.274	NULL	NULL	NULL	2348.05	39.693	0.171
K16-408	0	1472.45	16.317	0.00083	NULL	NULL	1910.66	25.757	0.0013	NULL	NULL	NULL	2244.69	13.724	0.00062	2355.74	35.198	0.00693
K16-408	9.3	1471.34	13.246	0.000696	1547.55	0.000756	1930.05	38.145	0.0218	2216.29	31.678	0.259	NULL	NULL	NULL	2348.93	38.066	0.153
K16-408	13.3	1471.66	17.177	0.00107	NULL	NULL	1931.42	39.446	0.012	2217.93	29.036	0.204	NULL	NULL	NULL	2349.21	37.179	0.12
K16-408	16.3	1472.49	9.225	0.000523	1555.36	0.000986	1918.48	39.028	0.0156	2217.07	32.501	0.296	NULL	NULL	NULL	2350.37	38.315	0.197
K16-408	19.3	NULL	NULL	NULL	1547.6	0.00211	1921.75	41.936	0.0402	2217.73	32.851	0.372	NULL	NULL	NULL	2347.67	40.165	0.249
K16-408	22.3	NULL	NULL	NULL	1560.6	0.000957	1936.41	39.263	0.0367	2218.95	32.374	0.379	NULL	NULL	NULL	2348.69	39.71	0.261
K16-408	25.3	NULL	NULL	NULL	1554.34	0.00243	1918.67	38.049	0.027	2216.64	34.105	0.434	NULL	NULL	NULL	2350.68	40.338	0.29
K16-408	28.3	NULL	NULL	NULL	1554.73	0.000459	1914.29	37.809	0.0468	2216.38	33.448	0.356	NULL	NULL	NULL	2349.46	39.572	0.226
K16-408	31.3	1472.68	22.83	0.000167	1557.6	0.000808	1922.33	33.413	0.0137	2215.29	34.334	0.301	NULL	NULL	NULL	2346.48	40.007	0.188
K16-408	34.3	NULL	NULL	NULL	1546.21	0.0023	1908.26	33.115	0.0162	2216.3	34.379	0.349	NULL	NULL	NULL	2347.41	41.865	0.215
K16-408	37.3	NULL	NULL	NULL	1553.65	0.00192	1911.4	35.071	0.0508	2211.03	35.163	0.454	NULL	NULL	NULL	2346.74	40.067	0.291
K16-408	43.3	1474.25	14.812	0.000632	1550.24	0.000998	1925.07	34.453	0.014	2211.75	33.374	0.301	NULL	NULL	NULL	2349.79	36.51	0.186
K16-408	46.3	1473.77	13.282	0.00132	1549.29	0.000724	1921.41	44.196	0.0108	2210.77	33.148	0.217	NULL	NULL	NULL	2348.02	37.805	0.132
K16-408	55.3	1472.46	10.472	0.000666	1548.01	0.00128	1916.39	32.44	0.0191	2209.9	34.734	0.306	NULL	NULL	NULL	2346.17	39.639	0.181
K16-408	58.3	NULL	NULL	NULL	1564.08	0.00112	1912.46	37.521	0.0406	2220.31	31.483	0.428	NULL	NULL	NULL	2347.04	40.267	0.279
K16-408	61.3	NULL	NULL	NULL	NULL	NULL	1908.94	31.641	0.174	2219.2	32.739	0.37	NULL	NULL	NULL	2348.72	39.714	0.226

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-408	64.3	NULL	NULL	NULL	1539.73	0.0016	1922.24	32.335	0.0123	2205.46	32.559	0.302	NULL	NULL	NULL	2347.05	39.506	0.175
K16-408	72.2	NULL	NULL	NULL	1539.9	0.00881	1918.47	30.681	0.0147	2214.52	35.117	0.382	NULL	NULL	NULL	2343.96	41.152	0.241
K16-408	75.7	NULL	NULL	NULL	1545.17	0.00101	1910.55	34.73	0.0729	2210.83	33.269	0.317	NULL	NULL	NULL	2351.17	37.942	0.194
K16-408	0	1489.01	11.816	0.000171	1565.1	0.000533	1911.04	43.353	0.0159	2219.91	30.203	0.341	NULL	NULL	NULL	2351.14	38.449	0.217
K16-408	0	NULL	NULL	NULL	NULL	NULL	1921.71	39.141	0.00735	2222.25	27.196	0.156	NULL	NULL	NULL	2341.87	41.282	0.13
K16-408	87.28	1487.89	10.552	0.000282	1555.76	0.000496	1920.34	40.86	0.00878	2220.97	28.569	0.205	NULL	NULL	NULL	2346.15	38.815	0.13
K16-408	92.27	1473	10.937	0.000793	1547	0.00211	1920.46	41.039	0.0109	2214.14	33.226	0.277	NULL	NULL	NULL	2347.97	39.009	0.16
K16-408	97.63	NULL	NULL	NULL	1545.59	0.000574	1941.08	35.938	0.0262	2218.04	31.341	0.234	NULL	NULL	NULL	2349.02	37.863	0.139
K16-408	102.39	NULL	NULL	NULL	1544.84	0.000898	1921.34	40.58	0.0121	2220.15	29.821	0.264	NULL	NULL	NULL	2350.8	39.676	0.155
K16-408	108.35	NULL	NULL	NULL	1555.88	0.0012	1921.37	43.323	0.0132	2218.96	30.891	0.279	NULL	NULL	NULL	2347.07	39.546	0.164
K16-408	113.85	NULL	NULL	NULL	1544.1	0.000279	1905.55	32.441	0.000991	NULL	NULL	NULL	2249.67	12.73	0.000622	2345.75	39.293	0.00588
K16-408	119.05	NULL	NULL	NULL	1558.9	0.00156	1908.67	41.219	0.0138	2219.86	31.339	0.332	NULL	NULL	NULL	2350.14	40.661	0.204
K16-408	130.65	NULL	NULL	NULL	1550.38	0.00129	1911.09	36.936	0.0192	2220.06	30.202	0.299	NULL	NULL	NULL	2345.55	40.378	0.18
K16-408	133.42	NULL	NULL	NULL	1557.13	0.00058	1908.51	30.402	0.0847	2218.01	31.452	0.289	NULL	NULL	NULL	2350.2	39.95	0.167
K16-408	136.08	1473.06	9.367	0.00129	1545.26	0.000672	1915.14	43.047	0.0452	2220.11	31.701	0.448	NULL	NULL	NULL	2352.13	40.054	0.301
K16-408	138.2	NULL	NULL	NULL	1548.92	0.000535	1915.42	32.735	0.0273	2218.59	31.384	0.231	NULL	NULL	NULL	2350.45	38.765	0.147
K16-408	142.76	NULL	NULL	NULL	1549.33	0.000644	1938.78	35.554	0.0132	2220.15	29.421	0.21	NULL	NULL	NULL	2348.96	39.13	0.127
K16-408	0	1492.96	14.856	0.000379	1552.22	0.000479	1912.19	38.529	0.0232	2216.93	30.882	0.176	NULL	NULL	NULL	2344.82	37.831	0.0983
K16-408	0	NULL	NULL	NULL	1557.32	0.000787	1909.67	31.171	0.0448	2218.14	32.139	0.27	NULL	NULL	NULL	2349.09	40.363	0.161
K16-408	145.79	1470.69	13.287	0.000831	NULL	NULL	1901.37	25.356	0.000791	NULL	NULL	NULL	2241.84	14.536	0.000485	2356.04	36.282	0.006
K16-408	147.14	NULL	NULL	NULL	1547.47	0.00171	1908.92	32.186	0.157	2218.59	32.281	0.367	NULL	NULL	NULL	2352.46	40.092	0.225
K16-408	146.93	NULL	NULL	NULL	1551.78	0.00176	1911.71	34.46	0.034	2217.32	33.154	0.353	NULL	NULL	NULL	2350.31	40.394	0.216
K16-408	150.45	NULL	NULL	NULL	NULL	NULL	1908.55	31.245	0.285	2217.13	33.264	0.42	NULL	NULL	NULL	2348.72	39.92	0.256
K16-408	154.88	1493.45	14.029	0.000349	1566.07	0.000652	1913.3	42.741	0.00646	2219.16	31.102	0.358	NULL	NULL	NULL	2351.13	38.146	0.234
K16-408	157.34	NULL	NULL	NULL	1540.69	0.000825	1911.23	36.843	0.0199	2220.47	30.053	0.321	NULL	NULL	NULL	2352.34	39.739	0.194
K16-408	160.35	NULL	NULL	NULL	1556.66	0.00118	1910.64	35.237	0.0346	2217.32	32.515	0.374	NULL	NULL	NULL	2352.18	39.44	0.226
K16-408	161.88	NULL	NULL	NULL	1560.98	0.000799	1910.47	33.497	0.0684	2222.12	28.08	0.201	NULL	NULL	NULL	2341.12	37.667	0.163
K16-408	166.85	NULL	NULL	NULL	NULL	NULL	1909.45	31.694	0.524	2208.13	25.161	0.319	NULL	NULL	NULL	2354.6	41.24	0.06
K16-408	171.28	1472.56	10.898	0.00259	1547.89	0.00134	1908.86	34.121	0.0507	2219.8	32.442	0.386	NULL	NULL	NULL	2352.16	41.622	0.24
K16-408	176.41	1473.93	16.119	0.000405	1550.31	0.000603	1909.09	39.362	0.0146	2219.69	31.463	0.225	NULL	NULL	NULL	2355.01	39.311	0.131
K16-408	179.74	NULL	NULL	NULL	1546.44	0.000897	1908.41	32.647	0.0398	2216.18	34.112	0.327	NULL	NULL	NULL	2349.11	40.683	0.186
K16-408	184.81	NULL	NULL	NULL	1562.74	0.000605	1909.03	31.587	0.0415	2215.82	33.729	0.33	NULL	NULL	NULL	2347.89	40.64	0.19
K16-408	0	1472.52	11.761	0.000488	1556.18	0.000475	1914.31	40.318	0.0201	2216.53	33.094	0.297	NULL	NULL	NULL	2353.1	39.459	0.176
K16-408	0	NULL	NULL	NULL	1555.11	0.000215	1912.47	35.357	0.0667	2218.04	33.755	0.465	NULL	NULL	NULL	2350.77	39.56	0.313
K16-408	188.94	1472.42	18.471	0.000389	1553	0.000479	1914.78	36.757	0.0351	2216.23	32.305	0.276	NULL	NULL	NULL	2353.22	37.169	0.174
K16-408	191.9	NULL	NULL	NULL	1539.15	0.000503	1911.7	35.34	0.0471	2216.85	34.269	0.465	NULL	NULL	NULL	2349.86	40.029	0.306
K16-408	194.43	NULL	NULL	NULL	1554.82	0.000837	1910.49	34.139	0.0662	2215.58	35.361	0.506	NULL	NULL	NULL	2350.7	40.463	0.337

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-408	197.66	NULL	NULL	NULL	NULL	NULL	1903.93	36.009	0.00075	NULL	NULL	NULL	2251.38	16.043	0.00069	2349.05	37.424	0.00636
K16-408	200.95	NULL	NULL	NULL	1550.11	0.00117	1917.81	38.025	0.0332	2209.85	35.216	0.492	NULL	NULL	NULL	2350.84	40.001	0.322
K16-408	203.95	NULL	NULL	NULL	1562.1	0.000568	1920.67	39.062	0.0473	2214.01	33.281	0.336	NULL	NULL	NULL	2350.7	37.909	0.216
K16-408	207.08	NULL	NULL	NULL	1553.81	0.000695	1912.5	34.606	0.0405	2215.93	34.664	0.425	NULL	NULL	NULL	2349.46	40.977	0.268
K16-408	210.05	NULL	NULL	NULL	1553.78	0.00147	1919.09	41.674	0.0777	2216.07	35.731	0.497	NULL	NULL	NULL	2353.08	41.727	0.325
K16-408	215.79	NULL	NULL	NULL	1540.14	0.00565	1912.52	29.197	0.0398	2215.13	35.183	0.453	NULL	NULL	NULL	2345.99	41.15	0.281
K16-408	218.93	NULL	NULL	NULL	1563.11	0.000666	1909.92	34.542	0.124	2218.7	33.94	0.532	NULL	NULL	NULL	2349.37	41.808	0.364
K16-408	223.45	NULL	NULL	NULL	NULL	NULL	1911.03	34.827	0.222	2210.87	31.148	0.342	NULL	NULL	NULL	2348.97	38.478	0.197
K16-408	224.84	NULL	NULL	NULL	1539.79	0.000429	1911.87	36.142	0.186	2210.03	29.774	0.414	NULL	NULL	NULL	2349.13	39.98	0.228
K16-408	227.74	NULL	NULL	NULL	1558.24	0.000911	1914.19	39.606	0.139	2217.47	34.452	0.538	NULL	NULL	NULL	2351.15	41.002	0.363
K16-408	232.32	NULL	NULL	NULL	1553.23	0.000874	1909.44	33.93	0.0659	2218.07	33.483	0.462	NULL	NULL	NULL	2348.74	42.152	0.287
K16-408	235.29	NULL	NULL	NULL	1554.82	0.00166	1908.34	34.281	0.0507	2217.96	34.314	0.475	NULL	NULL	NULL	2348.26	41.716	0.314
K16-408	238.65	NULL	NULL	NULL	NULL	NULL	1918.71	37.981	0.0492	2221.14	30.334	0.288	2243.46	19.406	0.181	2342.19	39.995	0.211
K16-408	243.2	NULL	NULL	NULL	1544.05	0.00065	1919.05	38.53	0.0381	2217.63	33.836	0.455	NULL	NULL	NULL	2349.3	40.007	0.293
K16-408	245.87	NULL	NULL	NULL	1550.05	0.00151	1909.5	31.933	0.245	2214.08	35.265	0.551	NULL	NULL	NULL	2347.63	41.453	0.363
K16-408	247.77	NULL	NULL	NULL	NULL	NULL	1911.41	35.817	0.222	2210.94	32.433	0.408	NULL	NULL	NULL	2349.52	41.077	0.227
K16-408	249.65	NULL	NULL	NULL	1552.83	0.00132	1911.52	35.905	0.0591	2218.55	32.703	0.376	NULL	NULL	NULL	2352.17	41.263	0.236
K16-408	251.38	NULL	NULL	NULL	1555.51	0.00148	1911.44	35.798	0.104	2219.37	32.746	0.521	NULL	NULL	NULL	2350.83	40.71	0.36
K16-408	254.93	NULL	NULL	NULL	NULL	NULL	1911.84	35.68	0.18	2208.88	25.061	0.271	NULL	NULL	NULL	2343.64	40.734	0.118
K16-408	256.87	NULL	NULL	NULL	1553.51	0.00162	1915.26	36.66	0.0764	2217.88	33.434	0.542	NULL	NULL	NULL	2349.33	40.232	0.378
K16-408	259.55	NULL	NULL	NULL	1540.08	0.00505	1919.74	37.509	0.11	2216.98	32.061	0.326	NULL	NULL	NULL	2349.58	38.634	0.205
K16-408	262.57	NULL	NULL	NULL	1538.15	0.00214	1910.17	34.23	0.0819	2208.17	24.64	0.164	NULL	NULL	NULL	2353.97	39.934	0.0482
K16-408	265.5	1483.45	12.234	0.000402	1540.34	0.000389	1914.03	36.664	0.0399	2214.5	32.536	0.331	NULL	NULL	NULL	2349.26	37.496	0.203
K16-408	268.29	1472.27	10.665	0.000689	1538.79	0.000517	1910.96	36.212	0.0195	2215.42	34.737	0.356	NULL	NULL	NULL	2352.24	40.946	0.217
K16-408	273.41	NULL	NULL	NULL	1539.47	0.000632	1911.17	35.786	0.0234	2214.42	33.963	0.367	NULL	NULL	NULL	2348.39	40.085	0.214
K16-408	276.85	NULL	NULL	NULL	NULL	NULL	1918.59	36.598	0.0569	2215.43	33.41	0.379	NULL	NULL	NULL	2350.08	38.344	0.247
K16-408	0	NULL	NULL	NULL	1538.64	0.00039	1913.24	33.346	0.000876	NULL	NULL	NULL	2243.64	13.635	0.000503	2358.33	33.851	0.00659
K16-408	0	NULL	NULL	NULL	1556.94	0.000582	1917.58	37.692	0.0235	2216.93	32.95	0.232	NULL	NULL	NULL	2350.9	39.282	0.137
K16-408	279.24	NULL	NULL	NULL	1566.27	0.000489	1908.74	40.207	0.031	2216.99	34.55	0.397	NULL	NULL	NULL	2351.27	41.398	0.241
K16-408	282.6	1473.03	10.898	0.000457	1556.45	0.000368	1914.61	38.059	0.0231	2215.06	34.893	0.396	NULL	NULL	NULL	2348.83	39.772	0.247
K16-408	285.88	NULL	NULL	NULL	1556.61	0.000454	1916.35	38.477	0.0538	2212.18	35.559	0.463	NULL	NULL	NULL	2351.08	38.619	0.305
K16-408	288.11	NULL	NULL	NULL	NULL	NULL	1909.59	32.648	0.204	2216.97	33.414	0.398	NULL	NULL	NULL	2350.54	39.973	0.252
K16-408	288.75	NULL	NULL	NULL	NULL	NULL	1908.87	31.873	0.374	2215.85	34.353	0.483	NULL	NULL	NULL	2350.8	40.158	0.312
K16-408	291.37	NULL	NULL	NULL	1555.83	0.000983	1907.38	30.99	0.0583	2220.06	32.172	0.413	NULL	NULL	NULL	2348.17	40.708	0.273
K16-408	294.51	NULL	NULL	NULL	1538.57	0.0021	1909.21	30.872	0.224	2220.3	31.618	0.353	NULL	NULL	NULL	2348.39	39.4	0.224
K16-408	297.31	NULL	NULL	NULL	NULL	NULL	1908.57	31.4	0.311	2218.69	32.827	0.299	NULL	NULL	NULL	2348.91	39.79	0.175
K16-408	300.73	NULL	NULL	NULL	NULL	NULL	1910.76	34.668	0.233	2214.26	34.059	0.166	2247.61	21	0.0967	2343.59	38.419	0.139

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-408	303.88	1473.32	14.469	0.0129	1552.67	0.0144	1917.68	36.162	0.0569	2220.41	30.125	0.274	2249.55	21.332	0.21	2350.55	38.858	0.23
K16-408	306.85	NULL	NULL	NULL	1539.12	0.000921	1910.22	34.826	0.0709	2219.9	32.026	0.389	NULL	NULL	NULL	2349.49	39.768	0.259
K16-408	309.74	NULL	NULL	NULL	NULL	NULL	1909.92	33.071	0.123	2219.81	30.749	0.296	NULL	NULL	NULL	2351.23	39.402	0.195
K16-408	312.38	NULL	NULL	NULL	NULL	NULL	1909.45	32.371	0.0651	2221.03	31.962	0.397	NULL	NULL	NULL	2344.02	41.52	0.274
K16-408	315.41	NULL	NULL	NULL	NULL	NULL	1909.84	30.804	0.225	2220.02	31.187	0.306	NULL	NULL	NULL	2345.54	39.487	0.184
K16-408	318.39	NULL	NULL	NULL	NULL	NULL	1908.94	31.624	0.284	2219.72	32.195	0.357	NULL	NULL	NULL	2349.98	39.136	0.221
K16-408	321.3	1472.61	9.894	0.000924	1548.04	0.000469	1910.93	33.665	0.0379	2220.78	31.149	0.334	NULL	NULL	NULL	2349.17	38.791	0.237
K16-408	325.54	NULL	NULL	NULL	NULL	NULL	1909.74	32.223	0.133	2220.64	31.514	0.472	NULL	NULL	NULL	2348.21	40.325	0.324
K16-408	328.8	NULL	NULL	NULL	1540.37	0.00324	1916.78	41.308	0.117	2221.46	30.721	0.347	NULL	NULL	NULL	2343.2	41.803	0.224
K16-408	331.69	1470.07	11.667	0.00114	1557.51	0.000772	1908.08	33.688	0.037	2220.7	31.843	0.338	NULL	NULL	NULL	2343.48	41.053	0.221
K16-408	334.9	1471.89	14.926	0.00133	1556.59	0.000888	1917.9	38.228	0.0388	2219.52	31.942	0.346	NULL	NULL	NULL	2348.65	39.465	0.246
K16-408	338.5	NULL	NULL	NULL	1557.08	0.00168	1910.65	34.334	0.077	2220.42	31.645	0.34	NULL	NULL	NULL	2350.87	39.944	0.232
K16-408	341.4	1473.29	18.092	0.00433	NULL	NULL	1917.99	36.184	0.0366	2220.14	30.737	0.312	NULL	NULL	NULL	2347.26	39.63	0.229
K16-408	342.48	NULL	NULL	NULL	NULL	NULL	1916.98	37.822	0.026	2219.25	30.509	0.217	2240.98	20.26	0.139	2349.5	37.539	0.167
K16-408	0	1470.45	12.984	0.000741	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2240.42	11.432	0.000778	2356.86	34.005	0.00625
K16-408	0	1471.99	20.54	0.00475	1565.66	0.00498	1918.37	36.598	0.0231	2218.25	32.383	0.238	NULL	NULL	NULL	2346.47	40.675	0.15
K16-408	344.9	1473.1	13.543	0.0187	1540.77	0.0136	1911.71	32.043	0.157	2216.17	34.379	0.312	NULL	NULL	NULL	2343.22	41.864	0.217
K16-408	348.6	NULL	NULL	NULL	1551.51	0.00248	1911.81	30.798	0.0522	2216.51	33.031	0.236	NULL	NULL	NULL	2352.38	38.892	0.156
K16-408	354.6	1472.55	15.046	0.00236	1547.24	0.00253	1916.45	38.28	0.0341	2217.27	31.785	0.145	2248.71	20.119	0.104	2347.74	38.761	0.111
K16-408	357.6	NULL	NULL	NULL	1543.73	0.00516	1912.44	33.741	0.0729	2216.35	33.75	0.275	NULL	NULL	NULL	2345.95	40.479	0.172
K16-408	363.9	NULL	NULL	NULL	NULL	NULL	1910.63	33.077	0.155	2216.55	34.21	0.305	NULL	NULL	NULL	2349.87	40.3	0.186
K16-408	367.21	NULL	NULL	NULL	1539.91	0.00402	1911.32	33.274	0.188	2216.91	33.641	0.425	NULL	NULL	NULL	2347.85	40.898	0.27
K16-408	372.35	NULL	NULL	NULL	1558.51	0.000609	1914.25	36.866	0.0801	2217.51	33.801	0.344	NULL	NULL	NULL	2349.8	41.122	0.221
K16-408	378.33	NULL	NULL	NULL	1549.62	0.00454	1914.5	36.578	0.055	2216.52	35.112	0.342	NULL	NULL	NULL	2350.44	40.93	0.231
K16-408	382.34	NULL	NULL	NULL	1546.18	0.0167	1916.8	36.684	0.053	2213.99	32.597	0.167	2254.38	19.917	0.126	2353.82	37.375	0.173
K16-408	386.52	1497.94	13.322	0.0203	1544.3	0.0207	1919.22	32.691	0.0197	2211.29	30.892	0.0547	2254.31	16.964	0.088	2354.61	37.662	0.12
K16-408	395.87	1471.52	13.171	0.0185	1560.36	0.0254	1959.94	27.37	0.0237	2216.06	33.777	0.25	2249.54	20.644	0.193	2341.16	41.215	0.217
K16-408	399.59	NULL	NULL	NULL	1540.05	0.000463	1913.49	33.025	0.0821	2216.67	33.872	0.414	NULL	NULL	NULL	2348.97	40.354	0.279
K16-408	403.92	NULL	NULL	NULL	1544.32	0.0103	1911.29	31.095	0.0762	2218.24	33.674	0.395	NULL	NULL	NULL	2348.94	41.276	0.279
K16-408	418.07	NULL	NULL	NULL	1558.49	0.000704	1912.98	34.9	0.0752	2216.36	33.875	0.369	NULL	NULL	NULL	2346.8	40.452	0.246
K16-408	424.59	NULL	NULL	NULL	1557.8	0.0271	1957.64	36.222	0.0538	2208.7	21.487	0.0537	2256.97	20.395	0.202	2350.63	36.281	0.192
K16-408	435	1498.37	17.923	0.014	1555.5	0.0221	1958.01	20.15	0.0301	2217.37	31.522	0.114	2255.03	19.152	0.191	2353.21	38.511	0.187
K16-408	0	NULL	NULL	NULL	1558.57	0.0195	1935.61	44.435	0.0266	2215.94	31.743	0.105	2251.69	20.412	0.0905	2353.16	40.041	0.123
K16-408	443.17	NULL	NULL	NULL	1548.39	0.001	1912.6	39.58	0.0354	2217.7	33.535	0.309	NULL	NULL	NULL	2352.47	40.485	0.188
K16-408	444.16	NULL	NULL	NULL	1550.37	0.000909	1912.57	39.582	0.045	2218.23	33.356	0.408	NULL	NULL	NULL	2351.68	40.662	0.271
K16-408	449.41	NULL	NULL	NULL	1546.13	0.000864	1926.47	45.324	0.092	2218.73	31.639	0.371	NULL	NULL	NULL	2348.94	39.131	0.239
K16-408	451.5	NULL	NULL	NULL	1558.62	0.00061	1917.47	42.25	0.0403	2214.62	34.907	0.437	NULL	NULL	NULL	2350.18	41.033	0.272

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-408	454.76	1470.79	10.226	0.000882	NULL	NULL	1901.87	25.616	0.000695	NULL	NULL	NULL	2248.49	18.153	0.000741	2353.32	34.503	0.0064
K16-408	456.95	NULL	NULL	NULL	1546.04	0.00148	1910.9	32.738	0.0438	2218.73	33.014	0.402	NULL	NULL	NULL	2349.94	40.52	0.261
K16-408	463.05	1473.72	12.482	0.00139	1553.32	0.00167	1909.71	32.386	0.0314	2218.72	33.261	0.378	NULL	NULL	NULL	2350.21	41.32	0.252
K16-408	466.4	NULL	NULL	NULL	1550.71	0.00145	1909.01	32.303	0.0581	2217.65	34.836	0.433	NULL	NULL	NULL	2348.67	41.172	0.293
K16-408	471.68	NULL	NULL	NULL	1553.45	0.00286	1911.82	33.687	0.0168	2218.5	32.898	0.333	NULL	NULL	NULL	2347.01	40.799	0.209
K16-408	474.78	1471.08	11.084	0.00205	1552.43	0.00455	1909.17	31.633	0.0194	2217.03	33.535	0.268	NULL	NULL	NULL	2348.38	39.657	0.189
K16-408	477.55	1473.6	13.959	0.00324	1555.35	0.00232	1916.86	42.778	0.0275	2216.42	33.763	0.333	NULL	NULL	NULL	2347.81	38.812	0.228
K16-408	481.74	NULL	NULL	NULL	1555.67	0.0226	1912.24	30.229	0.0615	NULL	NULL	NULL	2253.78	19.071	0.184	2345.99	38.584	0.159
K16-408	484.02	NULL	NULL	NULL	1559.84	0.0167	1958.38	22.504	0.0447	NULL	NULL	NULL	2257.6	20.322	0.224	2348.85	36.062	0.199
K16-408	487.26	NULL	NULL	NULL	1551.33	0.0392	1958.02	34.169	0.0899	NULL	NULL	NULL	2252.7	18.892	0.216	2337.81	31.392	0.19
K16-408	490.56	NULL	NULL	NULL	1552.48	0.0363	1959.62	17.895	0.0695	NULL	NULL	NULL	2254.06	20.385	0.284	2345.34	38.144	0.259
K16-408	0	NULL	NULL	NULL	1553.57	0.00174	1914.6	37.26	0.0353	2218.55	32.062	0.199	NULL	NULL	NULL	2346.3	40.322	0.132
K16-409	4.4	1473.98	12.82	0.0153	1552.41	0.0231	1910.77	20.672	0.0681	2219.35	32.544	0.209	2242.46	18.911	0.149	2343.64	40.457	0.148
K16-409	4.4	NULL	NULL	NULL	1552.79	0.055	NULL	NULL	NULL	2221.61	31.953	0.2	2249.66	18.763	0.241	2338.32	35.369	0.218
K16-409	4.4	1472.51	11.682	0.000732	NULL	NULL	1913.26	34.189	0.0223	2215.62	34.459	0.33	NULL	NULL	NULL	2346.61	40.625	0.225
K16-409	7.4	NULL	NULL	NULL	1553.45	0.0014	1935.87	38.155	0.0334	2218.15	32.468	0.276	NULL	NULL	NULL	2347.79	40.201	0.177
K16-409	7.4	NULL	NULL	NULL	1559.56	0.0106	1916.02	42.94	0.0198	2214.66	33.833	0.166	2252.16	19.466	0.133	2346.24	37.252	0.16
K16-409	7.4	NULL	NULL	NULL	1552.08	0.00125	1926.61	41.341	0.0171	2215.15	33.417	0.145	2242.39	20.407	0.0796	2352.09	38.831	0.104
K16-409	10.4	NULL	NULL	NULL	1554.28	0.00178	1911.4	38.837	0.0543	2216.79	33.059	0.329	NULL	NULL	NULL	2352.73	39.244	0.222
K16-409	10.4	1471.98	15.819	0.00072	1538.6	0.00036	1905.19	25.296	0.000919	NULL	NULL	NULL	2257.1	17.149	0.000593	2350.34	33.124	0.00662
K16-409	10.4	NULL	NULL	NULL	1566.29	0.00103	1917	35.89	0.0606	2216.95	32.984	0.294	NULL	NULL	NULL	2349.18	39.354	0.189
K16-409	13.4	NULL	NULL	NULL	1552.15	0.000658	1912.81	36.048	0.0724	2219.71	30.399	0.339	NULL	NULL	NULL	2346.37	38.807	0.228
K16-409	13.4	NULL	NULL	NULL	NULL	NULL	1914.21	32.785	0.0949	2217.42	31.084	0.126	2242.37	20.867	0.0688	2350.75	37.455	0.0811
K16-409	13.4	NULL	NULL	NULL	1568.76	0.000955	1909.64	33.041	0.0548	2218.18	31.556	0.232	NULL	NULL	NULL	2346.6	38.826	0.154
K16-409	16.4	NULL	NULL	NULL	1565.63	0.000132	1913.63	34.767	0.0301	2218	31.903	0.243	2243.42	19.282	0.152	2349.81	37.759	0.158
K16-409	16.4	NULL	NULL	NULL	1540.96	0.00173	1912.13	34.566	0.105	2219.22	31.591	0.24	NULL	NULL	NULL	2346.67	38.643	0.154
K16-409	16.4	NULL	NULL	NULL	NULL	NULL	1940.43	41.037	0.0786	2217.97	31.302	0.2	NULL	NULL	NULL	2349.3	36.99	0.12
K16-409	19.4	NULL	NULL	NULL	1538.67	0.00116	1914.34	35.497	0.107	2218.17	32.284	0.265	NULL	NULL	NULL	2351.14	37.595	0.178
K16-409	19.4	1499.11	10.421	0.00948	1554.04	0.0167	1918.08	34.294	0.0431	NULL	NULL	NULL	2253.09	18.325	0.156	2334.3	38.5	0.294
K16-409	19.4	1472.75	14.448	0.00271	1553.19	0.00767	1910.45	30.157	0.0647	NULL	NULL	NULL	2253.99	20.18	0.166	2336	38.161	0.232
K16-409	22.4	1473.29	19.104	0.00673	1554.8	0.0172	1911.52	35.285	0.0726	NULL	NULL	NULL	2253.51	19.338	0.2	2338.26	38.186	0.283
K16-409	22.4	1473.42	27.45	0.0103	1567.63	0.012	1920.69	39.314	0.0276	2218.89	31.174	0.13	2248.06	21.039	0.0909	2349.19	38.757	0.118
K16-409	22.4	NULL	NULL	NULL	1546.39	0.0236	1913.8	34.423	0.0381	2218.38	30.073	0.147	2250.65	21.54	0.0925	2350.99	37.961	0.141
K16-409	25.4	1472.84	19.135	0.0133	1549.51	0.0146	1917.65	38.082	0.0344	2219.41	30.124	0.204	2242.13	20.932	0.127	2346.84	37.895	0.163
K16-409	25.4	NULL	NULL	NULL	NULL	NULL	1915.19	38.028	0.0255	2218.99	31.163	0.211	2242.91	19.531	0.135	2343.46	39.035	0.144
K16-409	25.4	1498.88	17.447	0.0255	1567.38	0.0287	1918.41	39.603	0.0328	2220.08	30.855	0.243	NULL	NULL	NULL	2349.4	39.772	0.187
K16-409	28.4	1478.95	19.212	0.0014	1548.71	0.00421	1924.67	42.492	0.0151	NULL	NULL	NULL	2252.87	17.474	0.117	2340.67	39.737	0.211

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-409	28.4	NULL	NULL	NULL	NULL	NULL	1937.88	41.97	0.0505	2222.73	30.178	0.326	NULL	NULL	NULL	2345.3	40.88	0.219
K16-409	28.4	1472.19	13.707	0.00324	1555.73	0.000677	1920.42	33.47	0.0367	2222.75	28.956	0.295	NULL	NULL	NULL	2349.03	38.032	0.215
K16-409	31.4	NULL	NULL	NULL	NULL	NULL	1921.34	45.041	0.0828	2220.96	27.7	0.154	NULL	NULL	NULL	2346.04	37.821	0.119
K16-409	31.4	NULL	NULL	NULL	1550.03	0.00575	1912.17	38.107	0.019	2223.1	28.851	0.29	NULL	NULL	NULL	2348.1	40.107	0.19
K16-409	31.4	1470.4	10.244	0.00128	1539.34	0.000564	1936.39	37.496	0.04	2221.34	29.345	0.337	NULL	NULL	NULL	2347.74	39.241	0.222
K16-409	34.4	1498.64	16.679	0.0198	1567.09	0.0241	1919.08	42.157	0.0264	2220.6	29.116	0.187	2250.04	20.87	0.158	2344.09	40.586	0.223
K16-409	34.4	NULL	NULL	NULL	1566.81	0.00692	1902.48	39.106	0.00732	NULL	NULL	NULL	NULL	NULL	NULL	2354.5	38.374	0.00593
K16-409	34.4	1472.79	14.876	0.000777	1539.53	0.000359	1938.82	30.526	0.000811	NULL	NULL	NULL	NULL	NULL	NULL	2356.94	31.159	0.00647
K16-409	39.4	1499.93	12.537	0.015	1558.97	0.0188	1917.19	36.534	0.0308	2218.38	31.103	0.216	NULL	NULL	NULL	2346.99	39.814	0.182
K16-409	39.4	NULL	NULL	NULL	1551.48	0.00921	1912.53	37.857	0.0266	2217.69	32.577	0.267	NULL	NULL	NULL	2348.79	39.629	0.21
K16-409	39.4	NULL	NULL	NULL	1539.14	0.000603	1913.49	32.806	0.0114	2221.81	30.046	0.0946	2248.93	18.848	0.146	2337.16	40.259	0.184
K16-409	44.4	1475.23	18.593	0.000431	1560.33	0.00266	1912.21	31.951	0.0429	2220.1	31.052	0.155	2248.81	19.681	0.188	2336.77	42.075	0.231
K16-409	44.4	1490.99	14.533	0.000486	1563.33	0.00291	1910.93	35.532	0.0185	NULL	NULL	NULL	2251.15	18.689	0.218	2339.99	41.29	0.284
K16-409	44.4	1474.58	11.533	0.00362	1548	0.00352	1912.7	32.589	0.0334	2217.33	30.611	0.0846	2251.97	20.355	0.0724	2350.98	39.179	0.101
K16-409	49.4	NULL	NULL	NULL	1558.27	0.00267	1908.53	29.874	0.0967	2218.28	33.485	0.43	NULL	NULL	NULL	2346.74	40.231	0.304
K16-409	49.4	1478.22	14.792	0.00044	1556.22	0.00154	1910.32	32.721	0.0455	NULL	NULL	NULL	2250.69	18.043	0.164	2331.6	40.861	0.243
K16-409	49.4	NULL	NULL	NULL	1563.05	0.000783	1909.74	32.066	0.0545	2219.97	30.633	0.277	NULL	NULL	NULL	2343.98	39.946	0.199
K16-409	54.4	NULL	NULL	NULL	1538.56	0.0022	1909.38	29.855	0.138	2219.93	31.728	0.305	NULL	NULL	NULL	2346.46	39.688	0.206
K16-409	54.4	NULL	NULL	NULL	1539.54	0.00373	1915.31	34.538	0.0325	2220.62	30.306	0.235	2243.64	20.087	0.156	2346.47	38.963	0.157
K16-409	54.4	1472.3	20.489	0.0046	1548.22	0.00382	1915.64	38.873	0.0232	2219.99	30.11	0.212	NULL	NULL	NULL	2348.32	39.074	0.153
K16-409	59.4	NULL	NULL	NULL	1558.98	0.00163	1914.5	33.889	0.0193	2221.62	30.705	0.274	NULL	NULL	NULL	2349.47	40.154	0.185
K16-409	59.4	NULL	NULL	NULL	1543.19	0.00931	1912.99	34.744	0.149	2221.11	28.239	0.14	2249.27	20.291	0.113	2343.1	38.749	0.222
K16-409	59.4	NULL	NULL	NULL	NULL	NULL	1911.89	36.359	0.0909	2219.01	31.949	0.399	NULL	NULL	NULL	2347.94	39.571	0.274
K16-409	64.4	NULL	NULL	NULL	NULL	NULL	1910.47	33.598	0.218	2214.79	35.868	0.491	NULL	NULL	NULL	2348.92	39.987	0.341
K16-409	64.4	1470.15	11.29	0.00215	1564.88	0.000561	1910.59	32.775	0.023	2221.52	30.046	0.232	NULL	NULL	NULL	2354.76	39.153	0.154
K16-409	64.4	NULL	NULL	NULL	1548.62	0.00161	1914.93	37.219	0.0276	2220.74	30.733	0.293	NULL	NULL	NULL	2346.27	38.982	0.201
K16-409	69.4	1471.97	17.701	0.00582	1537.48	0.00194	1915.47	33.182	0.0577	2221.02	29.735	0.349	NULL	NULL	NULL	2345.01	38.964	0.251
K16-409	69.4	NULL	NULL	NULL	1539.12	0.00326	1910.75	32.461	0.156	2220.98	29.669	0.372	NULL	NULL	NULL	2347.79	38.733	0.26
K16-409	69.4	NULL	NULL	NULL	1548.88	0.000588	1910.95	31.531	0.0951	2221.19	31.333	0.372	NULL	NULL	NULL	2347.8	40.66	0.255
K16-409	74.4	NULL	NULL	NULL	1566.83	0.000477	1913.79	34.071	0.0644	2220.85	30.064	0.29	NULL	NULL	NULL	2349.94	38.672	0.2
K16-409	74.4	1471.78	14.781	0.00256	1553.94	0.00103	1912.59	35.302	0.0333	2221.46	30.401	0.298	NULL	NULL	NULL	2349.44	41.371	0.207
K16-409	74.4	1499.56	16.994	0.00979	1562.42	0.0112	1924.89	39.567	0.0218	2221.81	27.536	0.166	2250.8	21.009	0.125	2345.08	40.194	0.167
K16-409	79.4	1496.95	14.679	0.0218	NULL	NULL	1916.81	36.176	0.03	2221.04	29.059	0.2	2242.33	20.559	0.141	2349.09	39.631	0.184
K16-409	79.4	NULL	NULL	NULL	1539.65	0.000885	1914.48	36.852	0.045	2222.08	30.01	0.324	NULL	NULL	NULL	2347.55	40.41	0.223
K16-409	79.4	1496.35	18.073	0.0202	1560.55	0.0214	1929.9	40.154	0.0235	2220.91	28.487	0.138	2249.68	20.491	0.0995	2342.65	38.613	0.133
K16-409	84.4	1472.82	13.946	0.00319	NULL	NULL	1914.85	34.493	0.0298	2220.1	30.932	0.28	NULL	NULL	NULL	2347.87	39.247	0.202
K16-409	84.4	NULL	NULL	NULL	1537.78	0.00148	1934.75	40.755	0.00468	NULL	NULL	NULL	2267.66	10.717	0.000758	2347.73	32.891	0.00795

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-409	84.4	1472.37	13.171	0.000691	1538.39	0.000468	1930.14	26.99	0.00104	NULL	NULL	NULL	2250.58	13.429	0.000795	2354.33	35.258	0.00712
K16-409	89.4	NULL	NULL	NULL	NULL	NULL	1914.45	36.382	0.14	2220.44	30.424	0.273	NULL	NULL	NULL	2347.67	38.344	0.19
K16-409	89.4	NULL	NULL	NULL	1553.08	0.0012	1931.03	38.393	0.0142	2229.84	23.265	0.0395	2251.39	19.688	0.0788	2338.19	41.078	0.12
K16-409	89.4	1499.45	14.723	0.00418	1556.23	0.00374	1913.66	33.885	0.0568	2210.94	32.772	0.0589	2250.91	19.745	0.0934	2339.53	40.994	0.144
K16-409	94.4	NULL	NULL	NULL	NULL	NULL	1917.82	40.15	0.0785	2218.24	32.755	0.308	NULL	NULL	NULL	2345.65	40.43	0.199
K16-409	94.4	NULL	NULL	NULL	1563.45	0.000347	1922.16	40.196	0.118	2218.13	33.888	0.406	NULL	NULL	NULL	2345.14	41.561	0.263
K16-409	94.4	NULL	NULL	NULL	NULL	NULL	1921.45	45.748	0.25	2219.36	29.664	0.258	NULL	NULL	NULL	2346.53	38.948	0.168
K16-409	99.4	1488.23	17.525	0.00301	1563.34	0.00234	1942.33	38.84	0.0366	2222.39	26.761	0.0786	2250.98	19.387	0.11	2342.86	41.325	0.151
K16-409	99.4	NULL	NULL	NULL	NULL	NULL	1921.49	42.857	0.159	2218.04	32.419	0.373	NULL	NULL	NULL	2348.46	39.037	0.249
K16-409	99.4	1472.02	16.272	0.0129	1540.25	0.0142	1941.79	40.401	0.0817	NULL	NULL	NULL	2252.78	17.609	0.13	2341.58	39.421	0.218
K16-409	104.4	1471.15	14.595	0.0199	1550.08	0.0174	1920.88	43.479	0.062	2219.89	30.444	0.303	NULL	NULL	NULL	2351.31	39.223	0.232
K16-409	104.4	1482.34	19.574	0.0146	1547.56	0.0159	1937.12	42.08	0.0339	2222.67	25.96	0.0504	2251.98	17.692	0.125	2343.11	39.579	0.219
K16-409	104.4	NULL	NULL	NULL	1540.91	0.0126	1928.07	44.928	0.0908	2220.45	29.747	0.295	NULL	NULL	NULL	2349.19	40.11	0.231
K16-409	109.4	1473.47	16.611	0.0241	NULL	NULL	1931.63	46.404	0.119	2221.29	30.295	0.307	2243.86	19.328	0.201	2350.18	40.838	0.221
K16-409	109.4	1472.48	14.866	0.00788	1538.53	0.00165	1917.51	38.129	0.0884	2220.78	31.657	0.365	2243.43	18.677	0.26	2349.04	39.919	0.256
K16-409	109.4	1476.9	15.258	0.00193	NULL	NULL	1917.8	38.716	0.023	2220.02	29.546	0.119	2250.54	19.795	0.119	2341.94	39.983	0.174
K16-409	114.4	NULL	NULL	NULL	1538.8	0.0128	1938.15	44.648	0.0671	2221.09	29.608	0.227	NULL	NULL	NULL	2347.46	40.389	0.173
K16-409	114.4	1476.09	11.019	0.000517	1557.88	0.00162	1918.01	35.673	0.0147	NULL	NULL	NULL	2251.28	17.674	0.122	2334.83	40.099	0.211
K16-409	114.4	NULL	NULL	NULL	NULL	NULL	1918.72	42.659	0.0912	2220.69	30.155	0.374	NULL	NULL	NULL	2347.72	39.064	0.263
K16-409	119.4	1472.69	12.859	0.000893	1561.18	0.000422	1916.12	38.455	0.0286	2219.23	32.167	0.313	NULL	NULL	NULL	2349.12	38.711	0.196
K16-409	119.4	NULL	NULL	NULL	1565.61	0.000518	1923.35	38.779	0.0352	2221.99	30.16	0.334	NULL	NULL	NULL	2351.05	39.95	0.238
K16-409	119.4	NULL	NULL	NULL	1558.52	0.000983	1941.32	38.511	0.0213	2221.9	26.896	0.0807	2250.13	20.058	0.0992	2344.63	40.446	0.155
K16-409	124.4	1473.15	17.68	0.00511	1567.78	0.000475	1918.12	40.074	0.0794	2221.65	29.883	0.394	NULL	NULL	NULL	2348.74	39.497	0.275
K16-409	124.4	NULL	NULL	NULL	1551.25	0.000352	1918.83	40.396	0.0527	2221.16	30.088	0.366	NULL	NULL	NULL	2347.86	38.468	0.254
K16-409	124.4	1477.22	20.335	0.0188	1551.18	0.0186	1922.49	38.449	0.0309	2219.72	30.835	0.379	2241.99	20.077	0.27	2354.96	38.262	0.292
K16-409	129.4	NULL	NULL	NULL	1566.28	0.0219	1916.07	39.398	0.033	2219.31	29.842	0.189	NULL	NULL	NULL	2353.71	38.687	0.139
K16-409	129.4	1482.62	16.516	0.000355	1552.3	0.000399	1920.57	36.165	0.00232	NULL	NULL	NULL	2241.43	15.576	0.0016	2355.97	36.004	0.00714
K16-409	129.4	1472.08	15.698	0.00079	1539.83	0.000417	1912.71	36.74	0.00135	NULL	NULL	NULL	2241.74	11.628	0.000845	NULL	NULL	NULL
K16-409	134.4	NULL	NULL	NULL	1568.1	0.00506	1926.87	27.602	0.0149	NULL	NULL	NULL	2254.26	17.627	0.0642	2341.13	38.138	0.144
K16-409	134.4	1472.59	23.561	0.000475	1546.17	0.00158	1915.67	37.251	0.00882	NULL	NULL	NULL	2250.26	18.365	0.132	2335.41	39.873	0.213
K16-409	134.4	1471.53	13.209	0.00132	1547.57	0.00101	1918.66	30.596	0.0108	2226.09	33.039	0.00314	2252.32	17.519	0.0537	2335.43	38.826	0.117
K16-409	139.4	1473.32	13.911	0.00264	1559.68	0.00125	1914.16	38.844	0.0111	NULL	NULL	NULL	2252.14	17.263	0.0741	2340.24	40.385	0.119
K16-409	139.4	NULL	NULL	NULL	1545.77	0.000741	1935.56	43.343	0.0365	2222.18	29.731	0.294	NULL	NULL	NULL	2350.92	39.802	0.197
K16-409	139.4	NULL	NULL	NULL	1545.49	0.00108	1913.11	31.368	0.0384	2219.28	30.574	0.154	NULL	NULL	NULL	2347.1	38.87	0.111
K16-409	144.4	1497.47	12.836	0.000353	1548.88	0.00445	1917.17	36.554	0.0206	NULL	NULL	NULL	2250.67	18.036	0.161	2336.07	40.915	0.245
K16-409	144.4	NULL	NULL	NULL	1544.98	0.00268	1940.18	40.891	0.0333	2219.61	29.546	0.115	2245.23	19.031	0.0949	2339	42.088	0.13
K16-409	144.4	NULL	NULL	NULL	1545.01	0.000621	1914.45	34.432	0.045	2219.82	30.691	0.209	NULL	NULL	NULL	2343.68	40.165	0.143

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-409	147.4	1471.46	12.37	0.00475	1546.09	0.00122	1910.8	33.025	0.0454	2219.68	31.832	0.197	NULL	NULL	NULL	2347.57	40.059	0.134
K16-409	147.4	1470.75	11.516	0.00074	1557.42	0.000708	1920.17	34.548	0.0282	2219.81	29.289	0.0935	2249.29	18.903	0.136	2334.69	41.582	0.17
K16-409	147.4	NULL	NULL	NULL	1540.28	0.00406	1913.79	34.211	0.0605	2219.06	32.419	0.246	NULL	NULL	NULL	2347.38	42.024	0.164
K16-409	150.4	1499.55	7.032	0.000497	1546.43	0.00255	1917.77	35.898	0.0306	NULL	NULL	NULL	2251.14	17.827	0.165	2335.46	40.373	0.252
K16-409	150.4	NULL	NULL	NULL	1547.22	0.000725	1919.84	41.74	0.00393	NULL	NULL	NULL	2245.71	15.083	0.000904	NULL	NULL	NULL
K16-409	150.4	1470.49	11.389	0.000836	1539.2	0.000436	1956.95	36.57	0.000961	NULL	NULL	NULL	2242.47	12.138	0.000835	2359.65	36.423	0.00658
K16-409	153.4	1480.35	13.573	0.000739	1556.7	0.00149	1918.25	32.245	0.0218	NULL	NULL	NULL	2251.69	17.829	0.125	2337.99	40.237	0.195
K16-409	153.4	NULL	NULL	NULL	NULL	NULL	1910.71	32.939	0.0697	2218.09	32.96	0.295	NULL	NULL	NULL	2346.79	41.097	0.196
K16-409	153.4	1471.92	13.268	0.0119	1540.19	0.00994	1913.28	34.153	0.045	2218.87	31.919	0.342	NULL	NULL	NULL	2349.62	40.245	0.241
K16-409	156.4	NULL	NULL	NULL	1558.02	0.000493	1910.63	32.161	0.0516	2215.78	33.912	0.306	NULL	NULL	NULL	2349.33	39.301	0.184
K16-409	156.4	NULL	NULL	NULL	1563.58	0.000299	1916.41	41.505	0.0324	2220.02	29.835	0.247	NULL	NULL	NULL	2352.51	37.435	0.16
K16-409	156.4	1471.75	15.138	0.00743	1550.03	0.00929	1913.49	34.106	0.024	2219.01	32.58	0.257	NULL	NULL	NULL	2346.67	40.618	0.178
K16-409	159.4	1479.57	14.624	0.00051	1548.85	0.000803	1912.07	33.856	0.0251	2219.19	30.545	0.109	2250.16	19.719	0.14	2342.38	41.404	0.196
K16-409	159.4	1470.74	13.555	0.00406	1552.81	0.0017	1912.72	31.694	0.0446	2220.03	30.852	0.159	2246.87	19.59	0.147	2339.89	43.093	0.174
K16-409	159.4	1471.09	11.971	0.00228	1542.72	0.000708	1914.08	34.063	0.0267	2215.75	32.489	0.141	2240.83	19.179	0.1	2348.96	41.009	0.113
K16-409	162.4	NULL	NULL	NULL	1559.04	0.00686	1913.61	30.953	0.044	2216.48	33.046	0.151	2248.45	19.595	0.146	2339.71	42.011	0.175
K16-409	162.4	1470.88	16.286	0.00858	1539.06	0.00182	1914.45	32.021	0.0282	2217.39	30.467	0.0749	2249.87	19.63	0.0816	2342.21	41.407	0.123
K16-409	162.4	1476.05	17.534	0.00499	1566.89	0.00471	1927.25	44.525	0.0169	2218.3	31.165	0.0953	2248.68	20.404	0.0765	2344.88	40.097	0.109
K16-409	165.4	NULL	NULL	NULL	1556.54	0.0206	1912.83	28.82	0.067	2218.59	32.192	0.149	2249.97	19.044	0.188	2339.86	40.717	0.209
K16-409	165.4	1470.89	11.937	0.00161	1555.66	0.00392	1914.24	34.514	0.0314	NULL	NULL	NULL	2252.82	18.581	0.163	2337.67	39.201	0.211
K16-409	165.4	NULL	NULL	NULL	1547.29	0.00285	1954.06	41.802	0.0337	NULL	NULL	NULL	2252.6	18.401	0.157	2336.09	38.832	0.179
K16-409	168.4	1470.19	8.556	0.0103	1558.49	0.0189	1958.04	27.534	0.0536	NULL	NULL	NULL	2252.51	19.241	0.205	2341.75	35.762	0.208
K16-409	168.4	NULL	NULL	NULL	1557	0.0102	NULL	NULL	NULL	NULL	NULL	NULL	2253.97	19.508	0.156	2346.35	38.24	0.164
K16-409	168.4	NULL	NULL	NULL	1553.1	0.00956	1909.34	28.05	0.114	NULL	NULL	NULL	2252.51	17.524	0.193	2342.57	38.947	0.19
K16-409	171.4	1472.5	14.416	0.00509	1560.6	0.00563	1917.03	31.346	0.0362	2214.64	34.646	0.164	2247.96	20.379	0.103	2346.79	39.883	0.133
K16-409	171.4	1475.42	13.269	0.0116	1558.83	0.0131	1917.5	34.138	0.0169	2215.99	32.874	0.16	2250	20.977	0.103	2345.59	38.42	0.151
K16-409	171.4	NULL	NULL	NULL	1567.27	0.0108	1933.73	34.602	0.0178	2215.66	32.321	0.0983	2251.92	19.509	0.0881	2345.11	39.646	0.125
K16-409	174.4	NULL	NULL	NULL	1560.18	0.00221	1924.21	32.548	0.013	2216.45	33.502	0.0892	NULL	NULL	NULL	2342.58	36.987	0.0701
K16-409	174.4	1470.34	14.493	0.00177	1544.84	0.000589	1957.96	20.077	0.00534	NULL	NULL	NULL	2241.8	13.183	0.00338	2358.27	33.169	0.0101
K16-409	174.4	1472.84	16.543	0.000751	1537.98	0.000383	1917.1	30.177	0.000735	NULL	NULL	NULL	2249.48	13.452	0.000689	2355.17	31.847	0.00799
K16-409	177.4	NULL	NULL	NULL	1557.28	0.0107	1958.06	24.787	0.0127	2216.28	29.086	0.0423	NULL	NULL	NULL	2336.81	32.832	0.117
K16-409	177.4	1471.69	11.148	0.00395	1548.54	0.00324	1922.17	30.982	0.0161	2217.42	29.635	0.0463	2248.61	18.238	0.0333	2339.4	36.086	0.0628
K16-409	177.4	1473.54	48.106	0.0069	1555.84	0.00727	1909.11	38.131	0.0366	2215.85	29.587	0.0408	2250.76	16.085	0.0447	2325.47	29.216	0.0556
K16-409	180.4	1472.12	13.636	0.00282	1539.05	0.00445	1905.7	38.438	0.0142	2218.53	29.638	0.115	2249.18	20.51	0.0741	2349.94	37.618	0.0881
K16-409	180.4	NULL	NULL	NULL	1560.68	0.00416	1957.43	21.39	0.021	NULL	NULL	NULL	2255.75	20.608	0.138	2343.77	40.381	0.168
K16-409	180.4	1488.27	13.144	0.000417	1561.99	0.00441	1957.35	34.365	0.0207	NULL	NULL	NULL	2255.68	20.26	0.136	2339.38	41.598	0.177
K16-409	183.4	1473.21	15.292	0.000924	1546.77	0.000523	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2357.26	41.879	0.00682

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-409	183.4	NULL	NULL	NULL	1546.61	0.000393	1917.62	31.004	0.00123	NULL	NULL	NULL	2245.22	13.162	0.000626	2358.28	35.243	0.00682
K16-409	183.4	1498.25	14.337	0.0265	1568.67	0.0291	1940.65	32.116	0.0582	2217.02	25.055	0.0423	2261.76	15.341	0.0359	2322.1	26.083	0.0412
K16-409	186.4	1470.39	14.265	0.00848	1546.17	0.00696	1936.91	40.315	0.0355	2208.54	23.485	0.0467	2258.58	14.083	0.0306	2324.35	33.09	0.0378
K16-409	186.4	NULL	NULL	NULL	1561.59	0.0113	1948.13	45.865	0.0701	NULL	NULL	NULL	2257.64	20.584	0.159	2349.22	35.008	0.155
K16-409	186.4	NULL	NULL	NULL	1549.39	0.00613	1917.72	39.913	0.103	2215.2	32.482	0.177	2252.83	20.849	0.118	2349.55	36.155	0.142
K16-409	189.4	1472.75	10.679	0.0012	1555.88	0.00369	1950.87	42.163	0.0248	2219.45	31.497	0.0532	2256.33	18.427	0.08	2342.28	36.349	0.0933
K16-409	189.4	NULL	NULL	NULL	1547.41	0.00896	1957.98	27.29	0.0205	2219.21	29.467	0.0607	2254.44	19.219	0.0958	2338.63	36.86	0.135
K16-409	189.4	NULL	NULL	NULL	1541.51	0.00165	1946.34	39.16	0.0335	2214.96	30.187	0.0727	2246.11	20.294	0.041	2346.39	33.728	0.0503
K16-409	192.4	NULL	NULL	NULL	1548.77	0.00265	1954.54	40.879	0.0203	2225.68	28.848	0.0224	2252.73	15.692	0.0356	2342.19	34.637	0.0523
K16-409	192.4	NULL	NULL	NULL	1556.04	0.00449	NULL	NULL	NULL	NULL	NULL	NULL	2255.94	19.374	0.117	2353.5	34.611	0.127
K16-409	192.4	NULL	NULL	NULL	1544.38	0.00924	1919.74	39.5	0.018	NULL	NULL	NULL	2252.6	19.677	0.0634	2337.38	34.74	0.146
K16-409	195.4	NULL	NULL	NULL	1555.19	0.00662	1951.9	37.583	0.0397	2226.66	29.718	0.0577	2252.62	17.691	0.137	2338.6	38.252	0.137
K16-409	195.4	1472.78	12.681	0.00641	1550.47	0.00586	1910.82	30.66	0.0374	NULL	NULL	NULL	2254.09	19.202	0.0568	2342.92	35.29	0.0597
K16-409	195.4	NULL	NULL	NULL	1543.9	0.0142	1912.69	34.833	0.0391	2198.05	29.032	0.01	2255.11	20.009	0.0304	2341.31	37.433	0.0464
K16-409	198.4	NULL	NULL	NULL	1540.58	0.00415	1920.5	35.025	0.0212	2216.4	32.63	0.153	NULL	NULL	NULL	2353.54	37.3	0.115
K16-409	198.4	1470.06	9.823	0.00131	1544.95	0.00394	1917.89	33.922	0.0139	2220.9	31.366	0.0677	2254.14	17.272	0.0891	2347.66	37.6	0.103
K16-409	198.4	NULL	NULL	NULL	1550.57	0.00493	1957.17	29.93	0.0207	NULL	NULL	NULL	2255.86	20.166	0.105	2343.61	38.65	0.105
K16-409	203.4	NULL	NULL	NULL	NULL	NULL	1911.87	31.114	0.0819	NULL	NULL	NULL	2255.33	19.684	0.0699	2354.59	35.857	0.0638
K16-409	203.4	NULL	NULL	NULL	1540.82	0.000796	1911.79	31.698	0.0925	NULL	NULL	NULL	2255.63	19.004	0.0627	2355.64	32.409	0.0554
K16-409	203.4	NULL	NULL	NULL	1539.19	0.00603	1920.06	46.661	0.0637	2216.85	31.626	0.0345	2252.27	18.57	0.0469	2346.26	38.205	0.0487
K16-409	208.4	1470.15	10.528	0.00976	1539.13	0.00883	1940.84	33.65	0.0599	2220.64	29.069	0.0376	2251.87	17.495	0.0514	2339.67	33.199	0.0713
K16-409	208.4	NULL	NULL	NULL	1546.53	0.00579	1942.3	36.52	0.0813	2219.09	31.195	0.189	2250.57	20.523	0.144	2348.2	37.822	0.168
K16-409	208.4	NULL	NULL	NULL	1541.33	0.00352	1948.48	37.796	0.0395	NULL	NULL	NULL	2256.51	19.817	0.104	2348.17	36.189	0.102
K16-409	213.4	NULL	NULL	NULL	1559.86	0.00931	1957.3	35.25	0.0503	2227.57	27.58	0.083	2254.53	19.235	0.178	2343.26	39.097	0.164
K16-409	213.4	NULL	NULL	NULL	1549.23	0.0262	1950.88	33.24	0.0853	NULL	NULL	NULL	2254.39	20.002	0.223	2343.11	38.821	0.218
K16-409	213.4	NULL	NULL	NULL	1545.5	0.0455	NULL	NULL	NULL	NULL	NULL	NULL	2252.97	20.696	0.192	2336.96	38.965	0.241
K16-409	218.4	NULL	NULL	NULL	1542.42	0.0133	1913.01	39.352	0.139	NULL	NULL	NULL	2253.85	18.97	0.184	2354.15	33.058	0.17
K16-409	218.4	NULL	NULL	NULL	NULL	NULL	1915.92	43.416	0.171	2207.9	25.478	0.25	2263.84	16.593	0.0564	2327.43	39.329	0.13
K16-409	218.4	1473.42	14.644	0.00188	1564.21	0.00429	1951.72	34.038	0.028	2220.28	28.316	0.0576	2253.9	18.442	0.101	2343.45	37.71	0.118
K16-409	223.4	NULL	NULL	NULL	1548.35	0.00639	1959.17	36.41	0.037	NULL	NULL	NULL	2254.72	19.314	0.111	2341.99	36.109	0.116
K16-409	223.4	1473.89	13.333	0.00134	1556.73	0.00122	1938.81	31.862	0.0145	2220.94	28.873	0.0705	NULL	NULL	NULL	2351.27	36.859	0.0577
K16-409	223.4	NULL	NULL	NULL	NULL	NULL	1948.28	42.02	0.0361	2217.74	30.244	0.0537	2253.23	15.76	0.0682	2336.41	38.074	0.083
K16-409	228.4	NULL	NULL	NULL	1553.03	0.0139	1957.33	19.342	0.0341	2219.73	30.001	0.233	2249.18	20.41	0.195	2348.16	37.955	0.224
K16-409	228.4	1471.42	12.25	0.0013	1564.93	0.00251	1942.68	30.191	0.018	2215.7	30.407	0.114	2242.97	18.473	0.0585	2353.37	36.214	0.0833
K16-409	228.4	NULL	NULL	NULL	1549.76	0.00661	1957.51	39.736	0.0414	NULL	NULL	NULL	2256.55	20.117	0.14	2346.1	36.536	0.132
K16-409	233.4	1495.11	17.823	0.00695	1566.55	0.0089	1951.44	36.174	0.0197	2215.12	29.978	0.0597	2252.93	16.916	0.0409	2355.51	31.618	0.0508
K16-409	233.4	1472.08	15.512	0.00349	1551.68	0.00381	1939.61	32.124	0.0394	2210.11	27.972	0.0606	2251.24	16.268	0.0323	2345.02	33.903	0.0411

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-409	233.4	1473.38	14.007	0.00631	1540.26	0.00444	1942.3	41.143	0.0194	2207.72	27.489	0.0562	2251.59	20.783	0.0271	2349.6	38.774	0.0422
K16-409	238.4	1470.16	11.742	0.00111	1539.98	0.000715	1903.59	37.905	0.00321	NULL	NULL	NULL	2256.66	9.832	0.000645	2333.42	36.621	0.00557
K16-409	238.4	NULL	NULL	NULL	1548.32	0.000403	1905.54	27.432	0.00138	NULL	NULL	NULL	2241.49	14.816	0.000707	2355.32	33.702	0.00589
K16-409	238.4	1478.46	21.557	0.00615	1559.7	0.00605	NULL	NULL	NULL	2208.24	28.657	0.0375	2248.13	17.408	0.0301	2337.17	27.543	0.0376
K16-409	243.4	1472.38	17.009	0.00443	NULL	NULL	1941.94	34.647	0.0296	2209.09	24.98	0.0444	2244.85	19.675	0.0232	2340.53	34.018	0.0292
K16-409	243.4	1478.21	20.263	0.00487	1566.74	0.00347	1956.77	36.263	0.0152	2213.24	33.549	0.0328	NULL	NULL	NULL	2333.76	32.616	0.0457
K16-409	243.4	NULL	NULL	NULL	NULL	NULL	1934.88	37.943	0.019	2207.74	30.329	0.053	2241.9	19.667	0.0203	2353.01	36.587	0.03
K16-409	248.4	1471.3	9.45	0.00583	1547.06	0.00385	1941.38	44.11	0.0145	2208.09	20.757	0.0602	2262.47	19.411	0.019	2334.94	33.301	0.051
K16-409	248.4	NULL	NULL	NULL	NULL	NULL	1938.03	45.521	0.094	2213.26	30.869	0.0714	NULL	NULL	NULL	2346.03	37.046	0.0354
K16-409	248.4	NULL	NULL	NULL	1539.48	0.00214	1941.08	35.142	0.0711	2212.8	31.905	0.141	NULL	NULL	NULL	2344.9	34.289	0.0683
K16-409	253.4	NULL	NULL	NULL	NULL	NULL	1941.8	39.256	0.16	2207.95	20.586	0.0726	NULL	NULL	NULL	2329.38	41.33	0.0827
K16-409	253.4	1476.15	16.781	0.000796	1563.71	0.000772	1942.09	33.456	0.0211	2208.25	21.937	0.0866	2251.24	20.931	0.0188	2354.58	32.967	0.0328
K16-409	253.4	1488.82	20.619	0.000932	1562.35	0.000518	1939.18	34.096	0.0179	2208.43	21.128	0.0658	2241.41	9.853	0.0178	2354.07	30.357	0.0197
K16-409	258.4	NULL	NULL	NULL	1541.55	0.00134	1941.43	33.858	0.0712	2208.57	23.757	0.0768	2243.87	22.651	0.0205	2345.12	34.49	0.0286
K16-409	258.4	1472.48	14.036	0.0036	1554.9	0.00337	1913.68	33.004	0.0699	2207.86	26.537	0.236	2258.2	20.027	0.0944	2348.43	40.296	0.125
K16-409	258.4	1471.94	24.239	0.000807	NULL	NULL	1921.06	38.402	0.0171	2208.87	26.038	0.0564	2251.91	13.063	0.0313	2342.01	33.061	0.0494
K16-409	263.4	NULL	NULL	NULL	1552.15	0.000247	1930.16	43.799	0.0634	2216.65	32.719	0.324	NULL	NULL	NULL	2350.24	38.243	0.213
K16-409	263.4	NULL	NULL	NULL	1554.83	0.000175	1914.58	38.605	0.0829	2209.3	29.48	0.321	NULL	NULL	NULL	2350.03	39.54	0.155
K16-409	263.4	1473.74	13.026	0.00586	1553.47	0.00873	1914.16	33.784	0.0663	2210.54	31.234	0.16	2255.08	16.881	0.139	2349.44	36.916	0.153
K16-409	268.4	1472.83	17.051	0.00167	1552.61	0.000643	1939.91	34.528	0.0265	2207.39	24.458	0.153	2243.86	15.397	0.137	2357.42	21.932	0.138
K16-409	268.4	1476.82	15.37	0.000765	1552.55	0.0011	1939.56	41.202	0.0176	2215.32	30.737	0.104	NULL	NULL	NULL	2351.34	35.237	0.0607
K16-409	268.4	NULL	NULL	NULL	1550.62	0.00183	1913.89	42.826	0.0841	2209.44	29	0.289	NULL	NULL	NULL	2346.86	38.692	0.155
K16-409	273.4	NULL	NULL	NULL	1550.78	0.00139	1912.01	29.773	0.0319	2215.93	32.062	0.183	NULL	NULL	NULL	2350.13	36.27	0.109
K16-409	273.4	NULL	NULL	NULL	1551.16	0.000477	1911.46	33.701	0.0544	2215.44	32.859	0.243	NULL	NULL	NULL	2350.64	37.504	0.143
K16-409	273.4	NULL	NULL	NULL	1539.72	0.000669	1913.38	35.207	0.126	2209.7	31.765	0.238	NULL	NULL	NULL	2348.59	37.087	0.137
K16-409	278.4	1472.11	20.176	0.000226	NULL	NULL	1903.49	39.845	0.00327	2183.37	25.204	0.00879	2251	14.437	0.00025	2350.17	29.327	0.00604
K16-409	278.4	NULL	NULL	NULL	1547.91	0.000347	1907.88	27.537	0.00101	NULL	NULL	NULL	2243.61	42.902	0.000168	2356.82	35.118	0.00725
K16-409	278.4	NULL	NULL	NULL	1565.85	0.000263	1909.35	31.858	0.0718	2211.17	33.946	0.33	NULL	NULL	NULL	2348.84	37.776	0.198
K16-409	283.4	NULL	NULL	NULL	1540.92	0.000269	1911.51	33.77	0.138	2209.03	31.77	0.318	NULL	NULL	NULL	2347.39	38.743	0.17
K16-409	283.4	NULL	NULL	NULL	1566.17	0.00356	1911.3	21.945	0.0427	2209.25	32.046	0.16	2254.84	17.807	0.0943	2353.89	37.702	0.111
K16-409	283.4	NULL	NULL	NULL	1566.35	0.00121	1910.81	28.09	0.0569	2209.13	30.266	0.199	2251.93	20.361	0.0929	2352.55	38.447	0.126
K16-409	288.4	NULL	NULL	NULL	1563.53	0.00109	1914.54	28.095	0.0391	2210.19	33.444	0.196	2248.66	20.757	0.0967	2351.08	37.404	0.132
K16-409	288.4	NULL	NULL	NULL	1558.15	0.00127	1910.18	29.695	0.0685	2211.59	34.036	0.274	2243.7	19.683	0.123	2350.76	38.19	0.175
K16-409	288.4	NULL	NULL	NULL	1554.86	0.000315	1913.63	33.655	0.045	2214.23	33.888	0.284	NULL	NULL	NULL	2348.54	39.232	0.169
K16-409	293.4	NULL	NULL	NULL	1549.82	0.0026	1955.85	37.592	0.0283	2219.63	30.367	0.0544	2257.18	19.651	0.115	2354.35	35.432	0.11
K16-409	293.4	NULL	NULL	NULL	1551.91	0.00231	1954.38	46.979	0.0262	2217.79	31.169	0.0829	2255.43	17.384	0.099	2345.85	35.781	0.104
K16-409	293.4	NULL	NULL	NULL	1567.37	0.00042	1916.27	37.444	0.0239	2215.8	32.762	0.221	2242.69	18.893	0.118	2349.66	37.169	0.139

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-409	298.4	NULL	NULL	NULL	1539.9	0.00121	1918.42	41.4	0.0343	2216.43	32.96	0.242	2243.53	20.015	0.146	2348.53	38.866	0.162
K16-409	298.4	NULL	NULL	NULL	1562.17	0.000387	1916.29	37.629	0.0166	2215.86	32.748	0.335	NULL	NULL	NULL	2349.03	38.137	0.206
K16-409	298.4	1473.65	11.839	0.00202	1565.33	0.000147	1909.71	33.878	0.0717	2215.36	33.514	0.324	NULL	NULL	NULL	2346.65	38.941	0.195
K16-414	0	1473.07	13.315	0.00131	1565.89	0.000371	1909.37	36.899	0.0369	2214.79	33.696	0.29	NULL	NULL	NULL	2347.51	39.085	0.17
K16-414	8.94	NULL	NULL	NULL	1563.56	0.0164	1957.7	32.8	0.0555	2217.96	32.437	0.137	2255.43	18.868	0.21	2346.07	36.814	0.204
K16-414	12.42	NULL	NULL	NULL	1548.91	0.00264	1955.37	43.407	0.0479	NULL	NULL	NULL	2256.96	20.592	0.148	2345.74	38.524	0.145
K16-414	15.23	NULL	NULL	NULL	1562.71	0.000372	1916.3	43.799	0.0152	2217.85	32.832	0.347	NULL	NULL	NULL	2350.11	39.412	0.229
K16-414	22.92	1471.87	11.64	0.00171	1550.12	0.000848	1919.43	37.646	0.0306	2218.67	31.949	0.221	NULL	NULL	NULL	2344.1	40.652	0.155
K16-414	25.81	1475.25	13.603	0.000541	NULL	NULL	1942.1	36.253	0.0283	2218.1	30.53	0.229	NULL	NULL	NULL	2347.35	37.954	0.157
K16-414	28.62	NULL	NULL	NULL	1556.24	0.00159	1917.12	39.381	0.033	2218.63	31.303	0.233	2247.35	20.089	0.156	2343.32	41.017	0.181
K16-414	31.95	NULL	NULL	NULL	1556.94	0.000305	1912.94	37.029	0.0304	2216.86	32.264	0.247	NULL	NULL	NULL	2349.54	37.997	0.148
K16-414	34.72	1470.29	17.104	0.00106	1547.44	0.00031	1920.43	37.928	0.0212	2216.11	32.77	0.239	NULL	NULL	NULL	2353.42	37.749	0.152
K16-414	39.34	NULL	NULL	NULL	1555.12	0.000568	1912.82	34.538	0.036	2216.63	32.714	0.25	NULL	NULL	NULL	2347.37	38.127	0.162
K16-414	41.97	NULL	NULL	NULL	1553.08	0.000463	1939.06	42.904	0.0597	2215.84	33.491	0.292	NULL	NULL	NULL	2349.07	39.094	0.189
K16-414	43.88	1475.53	15.989	0.000737	1554.06	0.00038	1903.46	42.398	0.00225	NULL	NULL	NULL	2255.3	17.938	0.000557	2358.92	36.451	0.00767
K16-414	45.36	NULL	NULL	NULL	1539.09	0.000402	1928.71	30.023	0.000796	NULL	NULL	NULL	2246.12	11.153	0.000812	2356.47	35.906	0.00617
K16-414	50.17	NULL	NULL	NULL	1564.03	0.000408	1936.59	48.107	0.0314	2217.3	31.47	0.128	2248.92	20.785	0.0871	2349.39	38.026	0.116
K16-414	51.96	NULL	NULL	NULL	1557.73	0.000835	1912.9	38.531	0.0648	2218.86	32.13	0.35	NULL	NULL	NULL	2350.06	38.5	0.229
K16-414	54.97	NULL	NULL	NULL	1552.24	0.000571	1913.48	35.346	0.0874	2218.87	32.186	0.341	NULL	NULL	NULL	2350.23	39.123	0.226
K16-414	57.67	NULL	NULL	NULL	NULL	NULL	1912.74	40.242	0.0933	2217.99	32.241	0.341	NULL	NULL	NULL	2352.02	39.132	0.209
K16-414	63.03	NULL	NULL	NULL	1563.05	0.000459	1911.28	34.154	0.0931	2218.1	32.208	0.315	NULL	NULL	NULL	2349.25	38.495	0.199
K16-414	63.68	NULL	NULL	NULL	1550.86	0.000933	1913.57	31.402	0.0355	2218.31	31.671	0.299	NULL	NULL	NULL	2350.65	37.98	0.206
K16-414	66.82	NULL	NULL	NULL	1555.29	0.00072	1912.68	32.145	0.0583	2218.56	31.181	0.246	NULL	NULL	NULL	2350.65	37.792	0.156
K16-414	69.82	NULL	NULL	NULL	1564.89	0.000354	1912.19	36.192	0.127	2218.18	31.463	0.293	NULL	NULL	NULL	2349.55	38.155	0.178
K16-414	72.54	1474.25	10.999	0.000569	1555.02	0.000425	1940.23	37.364	0.0181	2219.68	30.375	0.28	NULL	NULL	NULL	2348.96	38.219	0.171
K16-414	86.26	1473.86	11.341	0.000741	1565.28	0.000397	1940.94	37.01	0.0498	2219.97	30.703	0.361	NULL	NULL	NULL	2347.86	38.778	0.235
K16-414	88.3	NULL	NULL	NULL	1556.1	0.000758	1939.93	37.239	0.0217	2219.95	30.94	0.28	NULL	NULL	NULL	2349.86	39.871	0.181
K16-414	91.88	NULL	NULL	NULL	1555.73	0.000482	1939.78	39.106	0.0442	2220.11	30.749	0.278	NULL	NULL	NULL	2350.97	38.899	0.163
K16-414	97.32	NULL	NULL	NULL	1550.01	0.000566	1911.35	35.748	0.0409	2219.06	31.16	0.201	NULL	NULL	NULL	2348.75	38.609	0.158
K16-414	100.49	NULL	NULL	NULL	1554.92	0.000665	1940.49	38.707	0.021	2219.28	31.625	0.299	NULL	NULL	NULL	2346.53	39.759	0.178
K16-414	103.35	NULL	NULL	NULL	1565.98	0.000781	1903.46	29.521	0.013	2218.76	32.74	0.336	NULL	NULL	NULL	2353.64	40.655	0.213
K16-414	106.25	NULL	NULL	NULL	1552.94	0.000932	1912.17	43.3	0.0613	2220.51	31.423	0.471	NULL	NULL	NULL	2349.33	40.561	0.316
K16-414	109.71	1473.68	21.934	0.00446	1539.98	0.00347	1941.01	40.847	0.0214	2220.63	28.812	0.144	2249.7	20.24	0.14	2344	41.241	0.188
K16-414	114.17	NULL	NULL	NULL	1554.33	0.000242	1919.51	37.699	0.00352	NULL	NULL	NULL	2242.16	18.182	0.000708	2357.59	32.07	0.00701
K16-414	116.7	NULL	NULL	NULL	1539.08	0.000395	1923.67	29.822	0.0014	NULL	NULL	NULL	2240.54	8.81	0.000954	2358.92	35.509	0.00692
K16-414	126.08	NULL	NULL	NULL	NULL	NULL	1909.75	30.99	0.0802	2217.87	33.275	0.364	NULL	NULL	NULL	2346.26	40.636	0.223
K16-414	140.31	1473.85	16.981	0.00794	1545.92	0.00554	1914.51	30.054	0.0232	2218.32	32.039	0.309	2243.78	20.777	0.2	2350.84	39.967	0.216

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-414	140.4	NULL	NULL	NULL	1548.48	0.00144	1909.23	33.463	0.0398	2217.85	32.968	0.383	NULL	NULL	NULL	2345.67	41.064	0.258
K16-414	0	NULL	NULL	NULL	1553.34	0.000664	1909.71	34.368	0.0868	2216.59	33.268	0.32	NULL	NULL	NULL	2341.62	40.732	0.266
K16-414	0	NULL	NULL	NULL	1554.79	0.00034	1912.21	40.459	0.0917	2218.44	32.287	0.38	NULL	NULL	NULL	2349.13	38.826	0.238
K16-414	147.06	NULL	NULL	NULL	1551.13	0.000625	1939.57	35.258	0.0371	2218.93	32.615	0.36	NULL	NULL	NULL	2351.19	39.176	0.231
K16-414	151.74	NULL	NULL	NULL	1555.51	0.000616	1911.73	30.985	0.0446	2217.11	33.914	0.262	NULL	NULL	NULL	2342.05	41.241	0.196
K16-414	156.02	NULL	NULL	NULL	1557.94	0.000322	1940.92	40.491	0.0219	2218.84	31.137	0.279	NULL	NULL	NULL	2352.65	38.629	0.175
K16-414	158.85	NULL	NULL	NULL	1567.23	0.000239	1911.05	35.256	0.0548	2219.98	32.954	0.379	NULL	NULL	NULL	2347.34	40.254	0.251
K16-414	163.71	NULL	NULL	NULL	1563.81	0.000665	1913.29	31.78	0.0379	2220.06	31.762	0.336	NULL	NULL	NULL	2347.78	40.402	0.219
K16-414	164.12	NULL	NULL	NULL	1556.59	0.000832	1909.94	33.096	0.032	2220.91	31	0.303	2243.31	20.657	0.204	2348.21	39.444	0.208
K16-414	170.3	1473.88	21.118	0.00172	1561.75	0.000653	1911.91	33.869	0.0289	2220.4	31.002	0.354	2243.79	20.211	0.243	2347.04	38.992	0.247
K16-414	172.4	NULL	NULL	NULL	1553.03	0.00303	1914.09	33.469	0.0162	2220.5	31.709	0.372	2243.12	20.318	0.268	2353.92	40.38	0.254
K16-414	176.04	NULL	NULL	NULL	1547.64	0.000465	1908.66	32.355	0.0234	2220.37	31.65	0.322	NULL	NULL	NULL	2348.84	39.884	0.205
K16-414	183.19	NULL	NULL	NULL	1554.44	0.000626	1910.74	33.704	0.0651	2221.12	31.39	0.4	NULL	NULL	NULL	2352.08	39.861	0.268
K16-414	186.9	NULL	NULL	NULL	1557.57	0.000335	1912.21	34.179	0.173	2220.6	31.452	0.406	NULL	NULL	NULL	2348.94	40.386	0.264
K16-414	193.49	NULL	NULL	NULL	1556.17	0.00113	1910.15	34.769	0.0456	2220.64	31.484	0.461	NULL	NULL	NULL	2350.07	39.945	0.317
K16-414	196.71	NULL	NULL	NULL	1549.51	0.000777	1910.08	35.736	0.0521	2221.6	31.05	0.455	NULL	NULL	NULL	2347.78	40.333	0.306
K16-414	200.19	NULL	NULL	NULL	1540.31	0.000406	1910.38	34.203	0.0925	2219	32.025	0.378	NULL	NULL	NULL	2352.38	39.712	0.246
K16-414	202.26	NULL	NULL	NULL	1544.1	0.000814	1918.83	32.132	0.00752	NULL	NULL	NULL	2241.95	15.292	0.000764	2348.14	25.214	0.00803
K16-414	209.24	NULL	NULL	NULL	1537.93	0.000389	1905.24	18.692	0.00122	NULL	NULL	NULL	2247.11	13.342	0.00061	2352.15	34.155	0.00605
K16-414	213.61	NULL	NULL	NULL	1546.16	0.00069	1938.64	41.881	0.0276	2220.74	30.946	0.386	NULL	NULL	NULL	2348.39	39.555	0.255
K16-414	217.14	1472.45	16.125	0.000638	1548.88	0.000494	1940.92	35.543	0.0308	2220.88	30.192	0.32	NULL	NULL	NULL	2350.79	39.04	0.214
K16-414	220.65	1471.89	18.112	0.0016	NULL	NULL	1942.17	43.483	0.0401	2220.61	30.753	0.287	2243.13	19.215	0.188	2351.24	39.58	0.18
K16-414	223.85	NULL	NULL	NULL	1550.2	0.000633	1910.03	32.296	0.194	2218.53	32.559	0.371	2243.72	19.535	0.227	2349.63	39.368	0.242
K16-414	228.2	NULL	NULL	NULL	1547.45	0.000616	1910.46	32.69	0.0293	2218.27	33.094	0.33	NULL	NULL	NULL	2345.76	40.507	0.217
K16-414	238.81	1472.05	11.331	0.00131	1550.69	0.000851	1916.26	34.74	0.0183	2217.64	33.488	0.312	NULL	NULL	NULL	2350.51	38.915	0.216
K16-414	239.74	1472.66	15.106	0.00261	1554.03	0.00155	1915.52	31.046	0.0209	2217.21	32.444	0.218	2242.23	20.36	0.127	2347.17	39.376	0.142
K16-414	241.69	1472.35	16.567	0.000871	1568.17	0.000594	1912.24	34.27	0.0172	2217.15	32.744	0.224	NULL	NULL	NULL	2349.51	38.447	0.149
K16-414	245.07	NULL	NULL	NULL	1549.73	0.000431	1914	33.666	0.0701	2217.01	33.668	0.331	NULL	NULL	NULL	2350.13	40.314	0.204
K16-414	248.31	1471.78	11.47	0.000806	1549.22	0.000625	1915.41	37.282	0.0202	2216.53	33.309	0.338	NULL	NULL	NULL	2350.22	39.922	0.208
K16-414	251.81	1471.33	14.962	0.00165	1552.16	0.000465	1918.56	34.479	0.0126	2217.45	31.868	0.229	NULL	NULL	NULL	2352.07	38.447	0.151
K16-414	255.11	NULL	NULL	NULL	NULL	NULL	1911.29	33.891	0.0611	2217.06	33.534	0.379	NULL	NULL	NULL	2347.49	39.827	0.243
K16-414	258.36	NULL	NULL	NULL	1548.77	0.0007	1933.18	45.279	0.03	2218.02	32.26	0.305	NULL	NULL	NULL	2346.16	39.543	0.183
K16-414	260.78	1473.86	17.625	0.00682	1549.1	0.00441	1924.1	41.994	0.0173	2217.4	34.096	0.393	NULL	NULL	NULL	2348.4	40.539	0.246
K16-414	264.16	NULL	NULL	NULL	1548.49	0.000711	1933.56	45.066	0.0498	2215.94	34.67	0.336	NULL	NULL	NULL	2350.61	39.919	0.21
K16-414	267.17	NULL	NULL	NULL	1551.55	0.000469	1912.67	36.105	0.021	2218.9	31.749	0.427	NULL	NULL	NULL	2349.65	38.586	0.283
K16-414	270.78	1497.64	19.588	0.000373	1562.75	0.000746	1941.04	38.548	0.0129	2219.98	28.972	0.193	NULL	NULL	NULL	2346.11	37.073	0.123
K16-414	271.34	NULL	NULL	NULL	1549.25	0.00053	1939.31	40.728	0.0262	2216.33	33.5	0.342	NULL	NULL	NULL	2349.18	38.754	0.219

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-414	0	NULL	NULL	NULL	1542.33	0.00143	1940.48	42.761	0.0987	2214.55	33.066	0.249	NULL	NULL	NULL	2350.98	37.935	0.146
K16-414	0	NULL	NULL	NULL	1550.46	0.000961	1919.88	40.246	0.025	2218.34	32.932	0.47	NULL	NULL	NULL	2348.53	39.546	0.31
K16-414	268.1	NULL	NULL	NULL	1547.78	0.000403	1917.67	38.478	0.0151	2217.8	32.702	0.37	NULL	NULL	NULL	2350.74	39.342	0.235
K16-414	271.04	NULL	NULL	NULL	1548.59	0.000433	1940.76	39.449	0.00426	NULL	NULL	NULL	NULL	NULL	NULL	2352.13	28.218	0.00809
K16-414	273.64	1471.87	14.729	0.000893	NULL	NULL	1915.02	26.385	0.00105	2183.65	22.273	0.0101	2246.46	17.093	0.000499	NULL	NULL	NULL
K16-414	281	1473.51	17.041	0.00717	1543.65	0.00384	1912.79	33.756	0.0256	2215.54	34.507	0.399	NULL	NULL	NULL	2343.9	40.501	0.26
K16-414	283.21	NULL	NULL	NULL	1567.41	0.000448	1913.85	36.079	0.0477	2216.7	33.26	0.402	NULL	NULL	NULL	2349.32	39.284	0.255
K16-414	284.28	NULL	NULL	NULL	1541.74	0.000652	1940.96	40.51	0.0528	2216.34	32.846	0.26	NULL	NULL	NULL	2353.53	37.626	0.158
K16-414	285.25	1496.2	12.357	0.000266	1555.86	0.000417	1939.4	40.436	0.0206	2219.18	30.827	0.385	NULL	NULL	NULL	2350.53	38.508	0.248
K16-414	288.8	NULL	NULL	NULL	1545.72	0.00105	1932.72	43.474	0.0429	2217.9	33.093	0.363	NULL	NULL	NULL	2347.14	40.929	0.229
K16-414	292.89	NULL	NULL	NULL	1541.04	0.000831	1941.27	36.299	0.0527	2219.63	32.296	0.328	NULL	NULL	NULL	2346.2	40.525	0.202
K16-414	294.08	NULL	NULL	NULL	1539.81	0.000431	1918.8	37.602	0.022	2219.81	31.5	0.326	NULL	NULL	NULL	2350.04	40.127	0.208
K16-414	295.13	1473.62	14.222	0.00129	1541.05	0.00119	1940.42	33.04	0.00462	2220.88	27.718	0.0906	2247.52	19.853	0.0662	2345.06	38.797	0.0963
K16-414	297.2	NULL	NULL	NULL	1538.86	0.000373	1911.99	34.628	0.051	2220.32	30.41	0.34	NULL	NULL	NULL	2349.7	38.405	0.219
K16-414	300.76	NULL	NULL	NULL	1541.79	0.000511	1938.95	44.043	0.101	2220.15	30.038	0.283	NULL	NULL	NULL	2347.47	38.433	0.176
K16-414	302.83	NULL	NULL	NULL	1545.23	0.000324	1919.68	38.392	0.05	2220.56	30.272	0.324	NULL	NULL	NULL	2347.08	37.848	0.215
K16-414	304.92	NULL	NULL	NULL	1542.07	0.000432	1937.94	43.316	0.0389	2220.81	29.336	0.223	NULL	NULL	NULL	2350.54	37.981	0.134
K16-414	307.87	NULL	NULL	NULL	NULL	NULL	1937.19	41.944	0.0307	2220.7	31.306	0.267	NULL	NULL	NULL	2349.36	40.705	0.168
K16-414	311.19	1473.66	17.408	0.000537	1568.11	0.000463	1938.51	43.016	0.0358	2218.59	31.604	0.259	2243.73	19.019	0.162	2352.84	38.585	0.154
K16-414	314.3	NULL	NULL	NULL	1557.27	0.000615	1918.94	38.485	0.0188	2218.94	31.342	0.261	NULL	NULL	NULL	2348.71	39.146	0.149
K16-414	316.23	NULL	NULL	NULL	1544.08	0.00097	1940.84	34.424	0.0411	2219.29	31.372	0.253	NULL	NULL	NULL	2345.28	39.381	0.143
K16-414	319.19	NULL	NULL	NULL	1567.02	0.000431	1912.99	39.602	0.0336	2217.68	32.794	0.343	NULL	NULL	NULL	2348.52	39.647	0.217
K16-414	322.18	NULL	NULL	NULL	1567.85	0.000491	1940.12	42.09	0.0303	2218.27	31.62	0.27	NULL	NULL	NULL	2347.82	38.117	0.17
K16-414	323.83	NULL	NULL	NULL	1538.43	0.000355	1940.35	37.106	0.0269	2218.67	31.451	0.271	NULL	NULL	NULL	2351.86	38.597	0.177
K16-414	326.11	NULL	NULL	NULL	1554.52	0.000361	1938.4	42.655	0.0403	2219.08	31.458	0.327	NULL	NULL	NULL	2347.08	39.618	0.209
K16-414	329.09	NULL	NULL	NULL	1546.17	0.000438	1911.33	38.254	0.0527	2219.74	32.219	0.393	NULL	NULL	NULL	2347.74	40.37	0.247
K16-414	335.32	NULL	NULL	NULL	1556.48	0.000519	1913.24	41.698	0.0678	2219.54	32.318	0.344	NULL	NULL	NULL	2349.44	41.246	0.208
K16-414	337.38	NULL	NULL	NULL	1566.41	0.000447	1911.7	35.371	0.0329	2220.06	32.032	0.327	NULL	NULL	NULL	2343.35	40.418	0.217
K16-414	339.92	NULL	NULL	NULL	1544.8	0.00117	1912.88	36.526	0.0399	2220.11	31.795	0.304	NULL	NULL	NULL	2348.79	40.286	0.198
K16-414	0	NULL	NULL	NULL	1550	0.00123	1922.13	40.019	0.0582	2219.01	33.429	0.454	NULL	NULL	NULL	2349.1	41.522	0.302
K16-415	0	NULL	NULL	NULL	1551.61	0.000837	1925.89	42.127	0.0637	2218.2	32.533	0.423	NULL	NULL	NULL	2349.13	39.599	0.286
K16-415	6.3	NULL	NULL	NULL	1550.05	0.000807	1925.07	39.14	0.0499	2217.68	33.017	0.427	NULL	NULL	NULL	2349.41	40.584	0.28
K16-415	11.3	1473.91	11.437	0.00108	1550.58	0.000607	1924.65	38.952	0.027	2217.47	33.684	0.361	NULL	NULL	NULL	2349.6	40.309	0.233
K16-415	16.3	NULL	NULL	NULL	1544.57	0.000714	1929.62	43.571	0.0539	2215.21	34.039	0.361	NULL	NULL	NULL	2346.51	38.922	0.232
K16-415	19	NULL	NULL	NULL	1547.65	0.000475	1933.61	45.195	0.0503	2214.41	33.351	0.272	NULL	NULL	NULL	2352.43	38.495	0.163
K16-415	20.3	NULL	NULL	NULL	NULL	NULL	1924.12	40.963	0.0984	2216.97	33.246	0.437	NULL	NULL	NULL	2345.99	39.699	0.288
K16-415	23.1	1475.46	15.586	0.00088	1550.02	0.000914	1939.58	35.13	0.0284	2217.14	31.162	0.208	NULL	NULL	NULL	2348.9	36.72	0.126

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-415	26.3	NULL	NULL	NULL	1548.86	0.000647	1923.05	40.282	0.0512	2216.47	34.094	0.421	NULL	NULL	NULL	2349.63	40.228	0.275
K16-415	27.3	NULL	NULL	NULL	1552.07	0.000909	1938.92	40.288	0.0418	2218.45	32.722	0.417	NULL	NULL	NULL	2349.33	40.686	0.263
K16-415	29.1	NULL	NULL	NULL	1552.1	0.00149	1915.61	41.81	0.0602	2222.26	29.99	0.443	NULL	NULL	NULL	2347.43	40.68	0.3
K16-415	30.3	NULL	NULL	NULL	1550.98	0.000533	1913.07	37.292	0.096	2221.32	30.654	0.406	NULL	NULL	NULL	2350.51	41.325	0.265
K16-415	33.3	NULL	NULL	NULL	NULL	NULL	1915.38	37.351	0.0847	2218.25	32.355	0.179	NULL	NULL	NULL	2345.68	38.904	0.113
K16-415	36.3	NULL	NULL	NULL	1542.48	0.000669	1918.37	40.705	0.0647	2221.86	30.722	0.299	NULL	NULL	NULL	2346.06	42.321	0.184
K16-415	39.4	NULL	NULL	NULL	1540.81	0.000452	1911.93	36.153	0.0753	2220.55	31.449	0.344	NULL	NULL	NULL	2348.61	41.084	0.22
K16-415	42.3	NULL	NULL	NULL	1558.67	0.00046	1911.49	36.827	0.046	2222.58	30.163	0.42	NULL	NULL	NULL	2347.31	40.649	0.274
K16-415	45.3	NULL	NULL	NULL	1542.1	0.000344	1940.23	40.509	0.0362	2221.58	28.929	0.191	NULL	NULL	NULL	2350.34	38.962	0.116
K16-415	48.4	NULL	NULL	NULL	1537.38	0.00223	1913.78	37.89	0.106	2220.31	30.766	0.332	NULL	NULL	NULL	2347.83	40.527	0.208
K16-415	51.4	NULL	NULL	NULL	1555.64	0.000307	1921.6	41.182	0.0849	2219.93	31.415	0.351	NULL	NULL	NULL	2348.51	39.597	0.232
K16-415	54.3	NULL	NULL	NULL	1546.71	0.000592	1936.46	44.071	0.0593	2218	32.436	0.322	NULL	NULL	NULL	2348.52	39.959	0.2
K16-415	57.2	NULL	NULL	NULL	NULL	NULL	1937.45	45.729	0.0754	2216.61	31.94	0.2	NULL	NULL	NULL	2343.97	38.26	0.149
K16-415	60.3	NULL	NULL	NULL	1545.68	0.00204	1939.33	38.908	0.0703	2216.56	33.057	0.357	NULL	NULL	NULL	2348.42	39.439	0.224
K16-415	63.3	NULL	NULL	NULL	1547.24	0.00104	1921.93	40.461	0.033	2216.19	33.364	0.305	NULL	NULL	NULL	2348.36	40.228	0.189
K16-415	66.3	NULL	NULL	NULL	1542.65	0.000913	1937.74	43.312	0.061	2216.96	33.186	0.289	NULL	NULL	NULL	2350.9	40.044	0.175
K16-415	69.3	NULL	NULL	NULL	1552.34	0.000903	1912.86	37.118	0.0321	2216	33.924	0.336	NULL	NULL	NULL	2349.48	40.014	0.205
K16-415	70.3	NULL	NULL	NULL	1544.11	0.000667	1920.69	41.071	0.0235	2215.36	32.843	0.287	NULL	NULL	NULL	2347.98	38.408	0.171
K16-415	72.3	1496.72	14.229	0.0141	NULL	NULL	1918.99	35.862	0.0329	2218.47	26.738	0.0922	NULL	NULL	NULL	2356.59	32.41	0.0517
K16-415	0	NULL	NULL	NULL	1540.77	0.000696	1917.77	41.989	0.019	2218.28	32.975	0.366	NULL	NULL	NULL	2347.24	40.275	0.23
K16-415	75.3	NULL	NULL	NULL	1537.68	0.00244	1945.68	39.058	0.0233	NULL	NULL	NULL	NULL	NULL	NULL	2306.79	21.77	0.0368
K16-415	78.3	1474.4	13.348	0.000806	1537.77	0.000542	1903.36	43.792	0.000579	NULL	NULL	NULL	NULL	NULL	NULL	2349.34	30.027	0.0067
K16-415	81.8	NULL	NULL	NULL	NULL	NULL	1918.68	42.847	0.13	2219.71	30.275	0.266	NULL	NULL	NULL	2342.63	39.593	0.2
K16-415	84.2	NULL	NULL	NULL	1537.37	0.002	1915.9	39.007	0.107	2209.55	35.256	0.501	NULL	NULL	NULL	2348.52	40.262	0.325
K16-415	87.3	NULL	NULL	NULL	NULL	NULL	1915.09	36.163	0.0799	2205.43	33.153	0.399	NULL	NULL	NULL	2346.2	38.764	0.24
K16-415	90.3	NULL	NULL	NULL	1549.74	0.00129	1911.56	38.983	0.036	2218.25	33.081	0.424	NULL	NULL	NULL	2345.13	41.475	0.275
K16-415	93.7	NULL	NULL	NULL	NULL	NULL	1923.86	42.907	0.0652	2219.37	32.337	0.295	NULL	NULL	NULL	2343.92	41.503	0.186
K16-415	96.3	1472.11	12.843	0.0149	1557.99	0.0137	1939.26	42.527	0.0327	2219.91	27.859	0.141	NULL	NULL	NULL	2348.28	36.63	0.0837
K16-415	99.2	NULL	NULL	NULL	1556.74	0.000701	1919.77	37.382	0.0243	2216.49	33.703	0.293	NULL	NULL	NULL	2349.8	40.66	0.173
K16-415	102.5	1473.8	15.907	0.00358	1539.55	0.00168	1930.25	42.926	0.0202	2218.86	29.345	0.105	NULL	NULL	NULL	2351.54	37.205	0.0597
K16-415	105.5	NULL	NULL	NULL	1552.23	0.000474	1933.75	41.845	0.0322	2218.53	30.999	0.201	NULL	NULL	NULL	2346.13	38.945	0.125
K16-415	106.9	1470.1	14.697	0.00971	1538.28	0.00562	1936.63	39.595	0.0377	2216.84	31.65	0.185	2243.62	19.494	0.0984	2351.64	39.376	0.12
K16-415	108.3	NULL	NULL	NULL	1551.1	0.000801	1920.48	39.351	0.0193	2216.2	33.609	0.293	NULL	NULL	NULL	2351.01	39.899	0.18
K16-415	111.3	NULL	NULL	NULL	NULL	NULL	1920.88	41.026	0.114	2215.13	33.804	0.365	NULL	NULL	NULL	2350.39	39.641	0.23
K16-415	114.3	NULL	NULL	NULL	1543.69	0.00208	1931.84	45.338	0.0544	2216.21	32.536	0.173	NULL	NULL	NULL	2346.79	39.128	0.1
K16-415	117.2	1473.03	19.371	0.00368	1540.08	0.000772	1938.21	40.706	0.0316	2215.79	32.59	0.135	2243.27	18.647	0.0585	2351.37	36.403	0.0869
K16-415	119.2	NULL	NULL	NULL	NULL	NULL	1917.65	39.574	0.0621	2213.45	34.079	0.218	2243.11	19.9	0.11	2346.7	39.439	0.153

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-415	122.3	NULL	NULL	NULL	NULL	NULL	1920.88	40.399	0.0497	2215.8	32.574	0.154	NULL	NULL	NULL	2343.18	40.427	0.101
K16-415	125.3	NULL	NULL	NULL	1543.52	0.0033	1933.09	42.751	0.0844	2215.42	34.481	0.383	NULL	NULL	NULL	2349.53	40.064	0.256
K16-415	128.3	1472.38	13.472	0.00631	1551.52	0.00373	1921.59	35.548	0.0201	2213.77	35.267	0.317	NULL	NULL	NULL	2346.47	40.683	0.196
K16-415	131.3	NULL	NULL	NULL	1552.31	0.00497	1928.44	45.968	0.0281	2213.3	33.201	0.179	2250.07	20.76	0.0979	2344.7	38.932	0.124
K16-415	133.2	NULL	NULL	NULL	1538.49	0.0186	1939.6	37.665	0.0213	2215.96	32.331	0.0734	2252.35	17.262	0.0612	2333.95	33.861	0.152
K16-415	134.3	1470.91	10.935	0.011	1557.57	0.0114	1913.63	36.116	0.0176	2212.34	31.967	0.0517	2241.94	17.43	0.0272	2332.9	37.681	0.0413
K16-415	136.1	1473.14	16.531	0.00137	1542.05	0.000516	1940.31	38.804	0.0267	2215.61	31.313	0.223	NULL	NULL	NULL	2350.8	36.443	0.138
K16-415	0	NULL	NULL	NULL	1550.25	0.000722	1928.92	44.928	0.0682	2214.42	34.124	0.364	NULL	NULL	NULL	2351.58	39.694	0.228
K16-415	139.3	NULL	NULL	NULL	1554.17	0.000513	1920.55	43.87	0.114	2215.11	35	0.362	NULL	NULL	NULL	2348.05	40.637	0.23
K16-415	142.4	NULL	NULL	NULL	1552.21	0.000905	1919.39	37.071	0.0659	2215.4	34.516	0.423	NULL	NULL	NULL	2348.72	40.21	0.276
K16-415	145.4	NULL	NULL	NULL	1554.42	0.00119	1916.65	38.14	0.0244	2216.49	32.78	0.308	NULL	NULL	NULL	2349.68	40.012	0.186
K16-415	148.3	NULL	NULL	NULL	1544.11	0.0291	1951.64	40.846	0.0714	2216.33	33.33	0.237	2248.8	19.802	0.18	2343.15	38.722	0.188
K16-415	151.3	NULL	NULL	NULL	1550.39	0.00943	1918.7	42.912	0.0588	2217.23	32.048	0.232	NULL	NULL	NULL	2344.49	39.494	0.182
K16-415	154.3	NULL	NULL	NULL	1541.4	0.0563	1954.23	34.261	0.0971	2218.29	32.923	0.162	2251.92	16.716	0.197	2339.94	35.831	0.259
K16-415	157.3	NULL	NULL	NULL	1539.2	0.00653	1957.8	36.758	0.0579	NULL	NULL	NULL	2252.21	21.428	0.147	2333.37	39.591	0.182
K16-415	160.3	1472.28	17.374	0.00127	1549.34	0.00196	1915.95	33.768	0.0328	2221.11	32.862	0.05	2250.78	19.258	0.0675	2336.55	36.05	0.0718
K16-415	163.3	1473.09	12.735	0.00952	1540.75	0.00627	1937.69	38.494	0.0329	2215.94	29.454	0.0627	2247.92	17.797	0.0312	2345.98	37.151	0.0522
K16-415	166.3	NULL	NULL	NULL	1554.02	0.00171	1921.13	31.736	0.0168	2215.43	32.01	0.152	2241.91	18.275	0.0784	2346.58	37.403	0.107
K16-415	168.3	NULL	NULL	NULL	NULL	NULL	1919.73	39.668	0.116	2216.59	34.157	0.341	NULL	NULL	NULL	2348.78	39.827	0.215
K16-415	171.4	NULL	NULL	NULL	1555.47	0.000851	1920.5	37.818	0.0729	2217.52	34.247	0.415	NULL	NULL	NULL	2348.98	41.335	0.273
K16-415	174.3	NULL	NULL	NULL	1542.49	0.00221	1915.81	36.206	0.0917	2215.41	35.396	0.384	NULL	NULL	NULL	2347.53	40.819	0.261
K16-415	177.4	NULL	NULL	NULL	NULL	NULL	1935.91	44.106	0.105	2217.97	31.604	0.326	NULL	NULL	NULL	2349.49	37.736	0.205
K16-415	180.3	1472.58	14.332	0.00368	1541.36	0.000717	1938.36	39.641	0.0488	2218.11	31.612	0.249	NULL	NULL	NULL	2346.48	38.974	0.15
K16-415	183.3	NULL	NULL	NULL	NULL	NULL	1915.64	39	0.122	2216.04	32.976	0.297	NULL	NULL	NULL	2348.55	39.437	0.176
K16-415	186.2	NULL	NULL	NULL	NULL	NULL	1920.24	39.637	0.119	2215.38	33.086	0.264	NULL	NULL	NULL	2348.96	38.315	0.158
K16-415	189.3	NULL	NULL	NULL	NULL	NULL	1911.57	37.219	0.23	2216.96	33.439	0.363	NULL	NULL	NULL	2347.64	39.518	0.224
K16-415	190.6	NULL	NULL	NULL	1537.91	0.000489	1919.44	39.46	0.11	2217.77	32.226	0.298	NULL	NULL	NULL	2348.87	38.162	0.187
K16-415	192.4	NULL	NULL	NULL	1542.74	0.00102	1939.31	40.729	0.111	2217.15	32.804	0.295	NULL	NULL	NULL	2350.42	38.696	0.172
K16-415	192.5	NULL	NULL	NULL	1556.51	0.00599	1921.1	51.227	0.0816	2213.35	34.702	0.137	2254.86	17.507	0.151	2343.49	37.359	0.15
K16-415	195.3	NULL	NULL	NULL	1551.78	0.00087	1937.3	43.659	0.0604	2216.2	33.319	0.232	NULL	NULL	NULL	2348.58	37.977	0.152
K16-415	198.3	NULL	NULL	NULL	1551.94	0.00085	1912.24	37.855	0.0583	2217.02	34.109	0.319	NULL	NULL	NULL	2346.4	39.904	0.198
K16-415	201.3	NULL	NULL	NULL	1543.74	0.000659	1938.36	36.193	0.0292	2217.28	32.348	0.23	NULL	NULL	NULL	2351.88	38.792	0.139
K16-415	204.3	NULL	NULL	NULL	1550.76	0.00126	1910.19	31.557	0.0626	2215.72	34.157	0.232	NULL	NULL	NULL	2348.21	39.717	0.139
K16-415	0	NULL	NULL	NULL	1549.7	0.00525	1912.46	35.786	0.021	2216.67	34.426	0.317	NULL	NULL	NULL	2342.41	41.288	0.2
K16-415	207.3	NULL	NULL	NULL	1544.99	0.000518	1919.65	36.884	0.0239	2216.53	33.984	0.244	NULL	NULL	NULL	2345.5	39.072	0.157
K16-415	210.3	NULL	NULL	NULL	1551.35	0.000593	1910.6	33.551	0.077	2214.77	34.707	0.242	NULL	NULL	NULL	2347.85	39.041	0.15
K16-415	213.3	NULL	NULL	NULL	1550.95	0.000931	1920.65	41.182	0.0296	2217.75	33.954	0.267	NULL	NULL	NULL	2349.57	39.9	0.167

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-415	216.3	NULL	NULL	NULL	NULL	NULL	1919.85	39.249	0.0187	2218.19	32.397	0.222	NULL	NULL	NULL	2347.88	41.769	0.136
K16-415	219.3	1473.65	16.871	0.00449	1555.31	0.0028	1916.39	33.67	0.0323	2218.71	32.093	0.248	NULL	NULL	NULL	2350.63	39.348	0.152
K16-415	222.6	1473.18	13.132	0.00251	1549.76	0.00133	1915.11	37.435	0.0448	2218.98	30.901	0.262	NULL	NULL	NULL	2349.58	38.665	0.16
K16-415	225.3	NULL	NULL	NULL	1539.18	0.000872	1918.5	38.906	0.107	2217.9	32.273	0.243	NULL	NULL	NULL	2347.84	38.874	0.145
K16-415	228.3	NULL	NULL	NULL	1550.94	0.00048	1913.61	38.502	0.0543	2218.32	32.674	0.297	NULL	NULL	NULL	2349.51	40.136	0.179
K16-415	0	NULL	NULL	NULL	NULL	NULL	1918.6	38.459	0.128	2218.85	32.524	0.28	NULL	NULL	NULL	2345.15	39.233	0.18
K16-415	231.3	1480.95	10.073	0.000341	NULL	NULL	1912.69	37.965	0.0137	2219.69	28.989	0.128	NULL	NULL	NULL	2350.6	36.806	0.088
K16-415	234.3	1473.71	14.805	0.00407	1541.57	0.000402	1918.01	41.273	0.0578	2218.22	31.433	0.19	NULL	NULL	NULL	2350.68	38.521	0.117
K16-415	237.2	NULL	NULL	NULL	NULL	NULL	1936.04	43.965	0.0519	2219.42	31.27	0.223	NULL	NULL	NULL	2353.34	39.051	0.135
K16-415	238.3	1473.99	14.5	0.00493	1542.64	0.00078	1915.21	38.564	0.0623	2220.54	31.712	0.341	NULL	NULL	NULL	2347.13	41.064	0.216
K16-415	240.3	NULL	NULL	NULL	1551.18	0.000542	1920.09	41.129	0.0791	2220.19	30.89	0.371	NULL	NULL	NULL	2348.25	39.153	0.254
K16-415	243.1	1473	18.515	0.00748	1540.41	0.00502	1933	42.064	0.0383	2218.97	31.338	0.184	2240.56	19.067	0.124	2349.22	40.034	0.13
K16-415	246.2	NULL	NULL	NULL	1549.86	0.000516	1920.97	33.814	0.0149	2218.83	31.218	0.179	NULL	NULL	NULL	2351.78	38.573	0.11
K16-415	247.5	NULL	NULL	NULL	1551.99	0.000469	1912.12	35.844	0.088	2218.5	32.157	0.289	NULL	NULL	NULL	2349.85	39.419	0.181
K16-415	248.5	NULL	NULL	NULL	1567.37	0.000502	1920.03	39.962	0.0303	2219.85	31.412	0.264	NULL	NULL	NULL	2350.15	40.358	0.167
K16-415	251.1	NULL	NULL	NULL	1548.91	0.000606	1913.76	35.488	0.0265	2219.71	31.747	0.288	NULL	NULL	NULL	2352.3	40.866	0.187
K16-415	254.3	1472.01	17.597	0.000859	1554.27	0.000941	1919.92	37.184	0.0142	2219.2	31.215	0.246	NULL	NULL	NULL	2350.5	39.155	0.147
K16-415	257.2	1477.66	13.304	0.00045	1549.13	0.000653	1919.2	37.524	0.0126	2218.56	29.803	0.146	2247.73	20.827	0.0883	2344.04	39.528	0.109
K16-415	260.3	1472.42	18.974	0.00124	1543.53	0.000939	1919.63	39.337	0.0033	NULL	NULL	NULL	2249.48	15.717	0.00105	2350.86	28.933	0.00599
K16-415	263.3	NULL	NULL	NULL	NULL	NULL	1912.73	36.083	0.18	2209.36	32.371	0.278	NULL	NULL	NULL	2351.84	37.122	0.18
K16-415	256.1	NULL	NULL	NULL	1539.54	0.00159	1941.77	34.473	0.0417	2209.49	21.746	0.0635	2245.9	18.166	0.0304	2355.77	34.128	0.0335
K16-415	266.3	1472.78	13.305	0.00908	1543.62	0.00453	1936.4	45.624	0.0347	2208	22.477	0.0652	2246.54	13.182	0.0324	2342.83	26.289	0.0471
K16-415	269.3	NULL	NULL	NULL	1555.86	0.00791	1956.46	33.306	0.0288	2216.3	32.463	0.138	2251.72	19.173	0.114	2345.4	38.251	0.139
K16-415	0	1477.04	18.285	0.0263	1543.12	0.0252	1934.88	38.402	0.0389	2220.55	31.776	0.0237	2265.98	13.956	0.0328	2330.51	30.464	0.0649
K16-415	272.3	NULL	NULL	NULL	1538.53	0.0112	1937.08	43.898	0.211	2215.26	34.692	0.359	NULL	NULL	NULL	2348.9	39.157	0.23
K16-415	275.3	1493.47	15.977	0.017	1565.55	0.0212	NULL	NULL	NULL	2213.71	31.202	0.0898	2241.9	18.098	0.0574	2349.39	32.222	0.0632
K16-415	278.3	NULL	NULL	NULL	NULL	NULL	1936.53	41.923	0.0629	2207.8	26.044	0.189	2245.18	15.233	0.225	2347.06	34.77	0.266
K16-415	281.4	NULL	NULL	NULL	1556.79	0.000432	1935.48	31.857	0.0121	2207.51	26.737	0.192	2243.96	16.182	0.167	2359.86	19.816	0.153
K16-415	284.3	NULL	NULL	NULL	NULL	NULL	1911.45	35.939	0.188	2208.92	23.792	0.317	NULL	NULL	NULL	2351.07	39.375	0.142
K16-415	287.3	NULL	NULL	NULL	NULL	NULL	1916.74	38.68	0.204	2207.9	21.549	0.092	2252.86	17.667	0.0645	2343.66	39.035	0.0977
K16-415	288	NULL	NULL	NULL	NULL	NULL	1915.06	40.332	0.0713	2217.74	31.254	0.266	NULL	NULL	NULL	2345.92	38.412	0.179
K16-415	290.2	1470.31	8.933	0.00121	1547.68	0.000556	1916.08	38.637	0.0275	2218.51	31.359	0.24	NULL	NULL	NULL	2350.46	38.722	0.15
K16-415	293.3	NULL	NULL	NULL	1548.81	0.000837	1917.62	32.909	0.0189	2219.18	30.149	0.21	NULL	NULL	NULL	2350.3	37.988	0.14
K16-415	296.3	NULL	NULL	NULL	1539.2	0.00245	1910.56	34.354	0.196	2217.54	33.06	0.382	NULL	NULL	NULL	2349.05	39.434	0.239
K16-415	299.3	NULL	NULL	NULL	1546.41	0.000211	1924.34	39.368	0.0775	2220.06	31.534	0.377	NULL	NULL	NULL	2348.16	40.036	0.249
K16-415	300.9	NULL	NULL	NULL	1546.55	0.000392	1918.85	40.277	0.0576	2219.11	31.67	0.36	NULL	NULL	NULL	2348.55	39.638	0.235
K16-415	302.3	NULL	NULL	NULL	NULL	NULL	1935.62	46.149	0.205	2217.06	31.568	0.26	NULL	NULL	NULL	2350.41	36.667	0.151

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-415	305.2	NULL	NULL	NULL	1546.75	0.000578	1909.39	33.137	0.0813	2212.33	35.731	0.496	NULL	NULL	NULL	2346.96	40.244	0.323
K16-415	306.2	1473.78	14.162	0.00202	1561.57	0.00079	1914.32	36.444	0.0434	2218.83	33.154	0.399	NULL	NULL	NULL	2345.66	40.322	0.266
K16-415	308.3	NULL	NULL	NULL	1560.64	0.000781	1919.28	37.294	0.0498	2221.41	30.475	0.343	NULL	NULL	NULL	2348.37	39.987	0.232
K16-415	311.3	NULL	NULL	NULL	1564.48	0.00136	1913.83	37.654	0.0979	2221.28	29.895	0.283	NULL	NULL	NULL	2347.91	38.526	0.199
K16-415	314	NULL	NULL	NULL	NULL	NULL	1932.69	45.689	0.222	2184.91	34.251	0.00985	2244.31	17.023	0.00528	2322.33	27.815	0.00362
K16-415	314.4	NULL	NULL	NULL	NULL	NULL	1910.14	32.882	0.158	2217.26	32.125	0.288	NULL	NULL	NULL	2348.61	38.725	0.175
K16-415	315	NULL	NULL	NULL	1542.16	0.00158	1912.07	36.675	0.133	2210.45	31.8	0.306	NULL	NULL	NULL	2350.82	38.469	0.174
K16-415	317	NULL	NULL	NULL	NULL	NULL	1917.3	40.064	0.427	2208.71	34.631	0.443	NULL	NULL	NULL	2349.71	39.933	0.275
K16-415	319.8	NULL	NULL	NULL	NULL	NULL	1918.83	40.259	0.0563	2218.22	31.636	0.238	NULL	NULL	NULL	2345.76	39.005	0.145
K16-415	324.2	1473.38	14.051	0.000906	1548.28	0.000753	1937.82	33.883	0.0222	2219.93	28.262	0.133	NULL	NULL	NULL	2346.23	39.098	0.0813
K16-415	325.1	NULL	NULL	NULL	1565.77	0.002	1919.75	34.745	0.0491	2224.34	27.374	0.224	2246.36	20.833	0.186	2342.3	40.355	0.207
K16-415	325.3	NULL	NULL	NULL	1565.96	0.00137	1916.54	40.325	0.0602	2223.22	26.456	0.275	NULL	NULL	NULL	2348.83	38.39	0.222
K16-415	0	NULL	NULL	NULL	1548.07	0.000731	1937.66	44.553	0.0769	2219.88	27.91	0.0722	NULL	NULL	NULL	2346.28	37.775	0.0398
K16-415	328.3	NULL	NULL	NULL	1542.88	0.000627	1940.2	40.643	0.0232	2217.02	32.194	0.349	NULL	NULL	NULL	2349.63	38.363	0.218
K16-415	331.3	NULL	NULL	NULL	NULL	NULL	1917.51	40.345	0.178	2215.24	32.696	0.247	NULL	NULL	NULL	2349.89	38.023	0.154
K16-415	332.3	NULL	NULL	NULL	NULL	NULL	1935.34	47.806	0.0422	2199.4	30.861	0.028	2249.02	17.434	0.0196	2337.06	35.809	0.0359
K16-415	334.3	NULL	NULL	NULL	NULL	NULL	1924.96	45.033	0.0734	2219.18	31.362	0.339	NULL	NULL	NULL	2349.25	39.407	0.212
K16-415	337.3	NULL	NULL	NULL	1537.06	0.00241	1910.7	33.813	0.178	2208.82	24.98	0.36	NULL	NULL	NULL	2353	40.777	0.158
K16-415	340.2	NULL	NULL	NULL	1540.03	0.00115	1916.11	40.861	0.0992	2210.11	31.94	0.172	2250.75	20.554	0.139	2348.55	38.707	0.147
K16-415	343.3	NULL	NULL	NULL	NULL	NULL	1921.43	39.986	0.0117	2213.2	34.784	0.357	NULL	NULL	NULL	2346.58	39.917	0.208
K16-415	346.3	NULL	NULL	NULL	1546.65	0.000917	1910.05	41.462	0.0254	2210.81	34.421	0.428	NULL	NULL	NULL	2349.33	37.812	0.265
K16-415	349.5	NULL	NULL	NULL	1538.66	0.00175	1929.94	44.985	0.0539	2209.64	33.388	0.235	NULL	NULL	NULL	2352.6	38.618	0.126
K16-415	352.3	NULL	NULL	NULL	NULL	NULL	1936.36	45.496	0.438	2208.16	34.872	0.465	NULL	NULL	NULL	2347.2	39.916	0.273
K16-415	352.4	NULL	NULL	NULL	1547.26	0.00225	1911.89	32.998	0.0193	2206.79	32.744	0.354	NULL	NULL	NULL	2347.93	38.469	0.203
K16-415	355.3	NULL	NULL	NULL	1544.94	0.0032	1929.93	45.027	0.0359	2205.69	32.62	0.372	NULL	NULL	NULL	2348.48	38.523	0.212
K16-415	358.3	NULL	NULL	NULL	1549.16	0.00216	1938.25	42.033	0.0304	2205.44	32.258	0.369	NULL	NULL	NULL	2348.37	39.135	0.211
K16-415	361.3	NULL	NULL	NULL	1548.34	0.0034	1911.42	37.222	0.0357	2204.65	31.701	0.371	NULL	NULL	NULL	2347.86	38.74	0.211
K16-415	364.3	NULL	NULL	NULL	1547.85	0.0012	1938.78	40.39	0.0422	2205.01	32.079	0.306	NULL	NULL	NULL	2346.79	38.073	0.172
K16-415	367.3	NULL	NULL	NULL	1563.67	0.000936	1927.84	37.854	0.0145	2205.91	32.956	0.249	NULL	NULL	NULL	2348.13	38.746	0.141
K16-415	369.8	NULL	NULL	NULL	1552.18	0.00264	1912.34	30.901	0.0178	2208.09	33.264	0.389	NULL	NULL	NULL	2348.68	37.99	0.233
K16-415	371.7	NULL	NULL	NULL	1544.64	0.003	1926.2	37.684	0.0174	2207.49	33.705	0.264	NULL	NULL	NULL	2345.37	39.41	0.147
K16-415	374.3	NULL	NULL	NULL	1554.21	0.00196	1910.34	35.445	0.012	2210.63	33.973	0.344	NULL	NULL	NULL	2350.18	37.664	0.208
K16-415	377.2	NULL	NULL	NULL	1546.5	0.00232	1911.78	38.777	0.0154	2210.98	33.632	0.286	NULL	NULL	NULL	2350.58	38.139	0.168
K16-415	380.3	NULL	NULL	NULL	NULL	NULL	1927.98	46.713	0.0282	2213.23	32.529	0.14	NULL	NULL	NULL	2344.22	40.257	0.0962
K16-415	381.7	NULL	NULL	NULL	1547.35	0.000746	1938.2	39.965	0.0169	2211.29	34.12	0.274	NULL	NULL	NULL	2349.14	38.896	0.163
K16-415	383.3	1473.89	23.037	0.00245	1562.05	0.00103	1940.95	38.472	0.0357	2209.47	32.368	0.0561	NULL	NULL	NULL	2356.2	38.447	0.0235
K16-415	386.3	NULL	NULL	NULL	NULL	NULL	1929.7	46.083	0.146	2210.56	31.385	0.0768	NULL	NULL	NULL	2340.85	33.799	0.128

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-415	0	NULL	NULL	NULL	1541.9	0.00192	1941.15	34.812	0.0599	2210.94	34.075	0.338	NULL	NULL	NULL	2349.15	37.959	0.197
K16-415	389.3	NULL	NULL	NULL	NULL	NULL	1937.89	44.867	0.138	2203.5	31.235	0.198	NULL	NULL	NULL	2348.23	37.415	0.101
K16-415	392.4	NULL	NULL	NULL	1548.08	0.00125	1909.68	32.333	0.0508	2212.83	33.892	0.313	NULL	NULL	NULL	2349.76	37.856	0.19
K16-415	395.3	NULL	NULL	NULL	NULL	NULL	1939.13	43.936	0.146	2211.08	32.138	0.056	NULL	NULL	NULL	2338.98	35.783	0.185
K16-415	398.3	NULL	NULL	NULL	1547.97	0.000667	1939.41	39.962	0.0185	2211.25	32.661	0.223	NULL	NULL	NULL	2350.62	37.035	0.131
K16-415	401	NULL	NULL	NULL	NULL	NULL	1937.53	42.856	0.0485	2212.1	33.256	0.177	NULL	NULL	NULL	2353.1	38.305	0.0977
K16-415	403.1	1486.59	14.416	0.00066	1567.21	0.000799	1939.24	33.593	0.00215	2212.08	34.821	0.0268	2242.4	12.136	0.0271	2330.55	39	0.0163
K16-415	406.2	NULL	NULL	NULL	1547.72	0.00095	1920.37	34.466	0.00858	2214.8	31.979	0.193	NULL	NULL	NULL	2352.46	36.992	0.113
K16-415	409.3	1471.66	16.612	0.000534	1564.78	0.000708	1940.21	26.383	0.00413	2227.64	34.958	0.0244	2247.43	18.71	0.0243	2315.14	27.62	0.0226
K16-415	412.3	NULL	NULL	NULL	1546.19	0.00113	1937.01	41.12	0.0117	2213.62	32.493	0.183	NULL	NULL	NULL	2350.84	35.401	0.108
K16-415	415.3	1470.45	15.544	0.000432	1567.16	0.000603	1938.65	43.168	0.0182	2215.39	31.625	0.0739	2243.52	15.925	0.0337	2352.28	36.77	0.0371
K16-415	418.4	1490.02	8.529	0.000611	1539.19	0.000723	1946.23	30.132	0.00942	2203.09	35.936	0.0503	2253.17	16.961	0.0504	2321.41	31.177	0.0484
K16-415	421.5	1473.21	10.695	0.00194	1552.9	0.0055	NULL	NULL	NULL	NULL	NULL	NULL	2254.64	20.008	0.127	2342.79	36.911	0.143
K16-415	424.3	1498.94	14.573	0.000257	1539.78	0.000538	1952.71	31.021	0.00312	2222.8	32.606	0.0366	2251.22	14.368	0.0389	2320.25	34.564	0.0317
K16-415	427.3	NULL	NULL	NULL	1555.06	0.00909	1958.89	21.359	0.0382	NULL	NULL	NULL	2252.55	17.497	0.187	2343.33	37.132	0.195
K16-415	430.4	1473.83	11.63	0.00276	1550.66	0.0116	1957.24	40.383	0.041	NULL	NULL	NULL	2253.3	18.778	0.157	2336.89	38.778	0.233
K16-415	432.9	NULL	NULL	NULL	1546.36	0.015	1913.56	46.877	0.0803	NULL	NULL	NULL	2252.64	18.607	0.177	2338.12	35.639	0.246
K16-415	434.6	NULL	NULL	NULL	1563.23	0.011	1911.99	33.065	0.0754	2223.95	28.388	0.139	2252.59	19.142	0.175	2342.76	38.362	0.18
K16-415	437.3	NULL	NULL	NULL	NULL	NULL	1912.55	33.763	0.209	2203.84	32.057	0.0991	2252.54	20.156	0.0297	2345.72	40.053	0.0735
K16-415	439.3	NULL	NULL	NULL	NULL	NULL	1911.26	32.414	0.154	2207	30.416	0.111	2254.25	17.009	0.0355	2338.51	40.611	0.074
K16-415	442.3	NULL	NULL	NULL	1559.57	0.00595	1959.94	36.085	0.0302	2221.46	28.511	0.0989	2252.77	17.775	0.143	2344.81	38.68	0.147
K16-415	447.3	NULL	NULL	NULL	1557.17	0.016	1959.25	23.618	0.0486	2223.29	29.25	0.13	2252.23	17.868	0.195	2346.34	37.435	0.196
K16-415	452.3	NULL	NULL	NULL	1544.37	0.0199	1910.1	21.475	0.0903	NULL	NULL	NULL	2252.99	18.131	0.171	2342.51	35.521	0.175
K16-415	0	NULL	NULL	NULL	1545.39	0.002	1911.47	38.066	0.0307	2213.61	33.796	0.287	NULL	NULL	NULL	2351.03	38.594	0.178
K16-415	457.3	NULL	NULL	NULL	NULL	NULL	1911.49	31.478	0.105	2205.5	32.111	0.238	NULL	NULL	NULL	2347.39	39.11	0.132
K16-415	460.2	1470.55	9.572	0.000779	1541.97	0.0015	1923.19	38.011	0.0173	2208.18	33.217	0.275	NULL	NULL	NULL	2349.57	37.548	0.158
K16-415	463.3	NULL	NULL	NULL	1559.95	0.00139	1929.06	45.012	0.0317	2208.05	33.014	0.242	NULL	NULL	NULL	2347.31	36.576	0.142
K16-415	466.3	NULL	NULL	NULL	NULL	NULL	1911.11	32.4	0.0725	2208.78	33.481	0.218	NULL	NULL	NULL	2346.17	39.484	0.119
K16-415	469.3	NULL	NULL	NULL	1561.24	0.000804	1911.77	32.921	0.0246	2208.11	33.536	0.203	NULL	NULL	NULL	2347.34	38.142	0.117
K16-415	471.3	NULL	NULL	NULL	1555.67	0.000938	1912.69	33.728	0.0699	2207.37	33.513	0.208	NULL	NULL	NULL	2347.99	37.708	0.119
K16-415	493	1470.19	13.027	0.00177	1566.95	0.000738	1909.75	35.221	0.0373	2208.71	34.079	0.0873	2246.35	19.642	0.0581	2344.3	39.813	0.0713
K16-415	494.2	NULL	NULL	NULL	1560.73	0.000983	1916.32	36.41	0.0407	2203.97	31.82	0.213	NULL	NULL	NULL	2349.07	37.4	0.126
K16-415	495.7	NULL	NULL	NULL	1564.73	0.000977	1912.66	32.764	0.0387	2206.85	32.663	0.167	NULL	NULL	NULL	2348.83	35.969	0.0926
K16-415	497.3	NULL	NULL	NULL	1550.17	0.00114	1910.91	32.932	0.0579	2205.1	32.223	0.332	NULL	NULL	NULL	2346.41	38.357	0.187
K16-415	499.1	NULL	NULL	NULL	1562.45	0.000619	1912.21	34.049	0.0411	2204.46	31.488	0.192	NULL	NULL	NULL	2346.16	37.79	0.0977
K16-415	500.2	1494.05	15.032	0.00432	1566.77	0.00581	1936.04	33.605	0.0257	2213	31.09	0.0445	2247.85	17.489	0.0416	2351.42	33.083	0.0385
K16-415	503.3	NULL	NULL	NULL	1556.45	0.0222	1958.29	25.069	0.0508	2221.44	30.393	0.291	2253.45	19.509	0.295	2346.7	38.018	0.3

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-415	506.3	NULL	NULL	NULL	1562.79	0.00349	1918.2	41.691	0.015	2229.67	15.446	0.00864	2254.3	17.187	0.0522	2340.33	39.059	0.0577
K16-415	509.3	1472.92	14.965	0.000281	1545.12	0.00149	1955.91	34.931	0.0136	2223.74	28.102	0.0422	2254.91	18.129	0.0559	2344.13	40.097	0.057
K16-415	512.3	1470.21	8.506	0.00169	1568.65	0.00291	1941.96	35.316	0.0206	NULL	NULL	NULL	2253.69	16.503	0.05	2347.22	37.31	0.043
K16-415	515.1	NULL	NULL	NULL	1561.21	0.00933	1956.3	23.035	0.0192	2220.72	29.962	0.126	2250.17	20.293	0.107	2339.23	37.836	0.114
K16-415	518.2	NULL	NULL	NULL	1559.07	0.0132	1959.88	19.652	0.0292	2218.97	31.548	0.175	2252.74	18.826	0.167	2348.06	37.376	0.172
K16-415	0	NULL	NULL	NULL	1559.05	0.0166	1910.92	22.567	0.0902	2208.47	34.475	0.059	2257.3	20.02	0.175	2348.54	36.984	0.172
K16-415	521.3	NULL	NULL	NULL	1548.4	0.00145	1910.96	30.365	0.261	2205.39	32.956	0.205	2255.5	18.711	0.114	2346.7	38.028	0.148
K16-415	524.1	NULL	NULL	NULL	1559.24	0.00115	1909.97	28.754	0.152	2199.93	32.636	0.106	2256.7	18.911	0.0879	2347.55	37.656	0.103
K16-415	525.5	NULL	NULL	NULL	NULL	NULL	1911.96	32.702	0.151	2209.04	33.567	0.0662	2253.72	17.679	0.0531	2339.29	35.965	0.126
K16-415	527.4	NULL	NULL	NULL	1538.84	0.00138	1936.39	42.46	0.024	2220.73	29.307	0.126	NULL	NULL	NULL	2342.96	37.742	0.0879
K16-415	529.3	NULL	NULL	NULL	1560.78	0.00462	1909.68	26.679	0.158	NULL	NULL	NULL	2258.02	20.161	0.122	2344.1	40.659	0.137
K16-415	530.2	1473.39	15.567	0.00387	1557.27	0.000562	1912.02	30.057	0.11	2206.61	27.734	0.0695	2254.16	17.241	0.0643	2342.16	38.875	0.0872
K16-415	530.3	NULL	NULL	NULL	1538.28	0.0016	1909.56	29.516	0.176	2203.01	33.078	0.126	2254.29	17.702	0.0696	2344.03	38.768	0.107
K16-415	531.7	1470.27	9.071	0.00119	1540.78	0.00135	1911.93	25.874	0.0391	2227	22.909	0.0116	2257.52	19.592	0.0701	2350.82	38.552	0.0745
K16-415	535	1471.34	12.588	0.00263	1557.63	0.00489	1911.66	27.556	0.0403	NULL	NULL	NULL	2256.98	20.156	0.0709	2346.79	38.286	0.0824
K16-415	538.3	NULL	NULL	NULL	1565.72	0.0081	NULL	NULL	NULL	NULL	NULL	NULL	2257.02	20.258	0.178	2349.76	37.218	0.164
K16-415	541.3	NULL	NULL	NULL	1566.44	0.00584	1956.83	23.688	0.0145	NULL	NULL	NULL	2256.37	20.052	0.118	2345.52	37.234	0.125
K16-415	544.3	NULL	NULL	NULL	1560.8	0.0195	1920.67	36.076	0.0207	NULL	NULL	NULL	2254.38	18.456	0.0771	2343.55	39.138	0.092
K16-415	545	1476.23	13.815	0.00693	1549.12	0.00873	1920.47	29.856	0.0146	2198.33	18.621	0.00752	2254.16	18.164	0.0602	2341.74	39.484	0.0762
K16-415	547	1496.98	25.931	0.00274	1564.53	0.00645	1905.55	34.109	0.0143	NULL	NULL	NULL	2254.29	18.693	0.118	2344.27	39.489	0.127
K16-415	550.3	NULL	NULL	NULL	1557.89	0.0103	NULL	NULL	NULL	NULL	NULL	NULL	2255.14	20.459	0.182	2347.42	35.953	0.174
K16-415	553.3	NULL	NULL	NULL	1560.03	0.0213	NULL	NULL	NULL	NULL	NULL	NULL	2254.41	20.681	0.131	2340.71	36.353	0.153
K16-415	556.3	NULL	NULL	NULL	NULL	NULL	1958.11	44.276	0.0629	NULL	NULL	NULL	NULL	NULL	NULL	2335.61	39.341	0.311
K16-415	559.3	1470.03	12.673	0.00586	1539.51	0.00364	1957.88	25.1	0.0155	2226.27	24.016	0.0223	NULL	NULL	NULL	2336.29	34.988	0.0933
K16-415	561	NULL	NULL	NULL	1538.09	0.000595	1912.25	27.499	0.0193	2227.63	27.627	0.00863	NULL	NULL	NULL	2333.36	40.985	0.109
K16-415	562.3	NULL	NULL	NULL	1567.5	0.000591	1914.01	27.703	0.0365	2204.96	31.064	0.0184	NULL	NULL	NULL	2334.8	31.904	0.0142
K16-415	565.3	NULL	NULL	NULL	1561.36	0.00665	1957.4	20.105	0.0219	NULL	NULL	NULL	2254.58	19.491	0.142	2343.7	38.854	0.14
K16-415	568.3	1470.3	9.976	0.00662	1542.3	0.00698	1911.61	32.687	0.0386	2219.49	30.164	0.164	2246.01	20.261	0.115	2343.73	38.335	0.141
K16-415	570.7	NULL	NULL	NULL	1559.91	0.00523	1954.88	26.218	0.0223	2221.43	29.567	0.147	2250.29	20.521	0.117	2350.42	36.873	0.13
K16-415	0	1471.7	14.286	0.00258	1552.72	0.0054	1956	34.073	0.0188	2219.17	30.728	0.188	2248.57	21.072	0.133	2347.53	37.211	0.157
K16-415	0	1470.64	17.113	0.00412	1550.27	0.00401	1915.11	30.209	0.0131	2219.52	29.863	0.0848	2245.81	20.328	0.059	2339.27	39.273	0.0771
K16-415	573.3	NULL	NULL	NULL	1554.5	0.00762	1906.83	30.233	0.0297	2219.15	31.334	0.162	2251.7	20.799	0.126	2351.22	38.012	0.141
K16-415	576.3	NULL	NULL	NULL	1542.01	0.0124	1912.28	26.939	0.0353	2219.72	30.923	0.129	2251.77	19.51	0.139	2342.2	38.772	0.143
K16-415	579.3	1471.01	10.248	0.00363	1554.14	0.00731	1917.88	29.337	0.012	2218.76	31.67	0.173	2250.32	21.31	0.113	2347.69	38.539	0.142
K16-415	582.3	1486.4	20.842	0.00167	1544.24	0.00354	1909.54	27.949	0.0404	2197.15	26.307	0.00308	2256.23	19.549	0.0517	2341.4	39.418	0.0583
K16-415	585.5	NULL	NULL	NULL	NULL	NULL	1909.37	30.758	0.311	2204.96	31.007	0.154	2253.11	20.126	0.057	2346.8	39.167	0.0927
K16-415	588.3	NULL	NULL	NULL	1565.76	0.00789	NULL	NULL	NULL	NULL	NULL	NULL	2255.54	20.372	0.15	2345.65	35.495	0.164

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-415	589.2	NULL	NULL	NULL	1551.73	0.00988	NULL	NULL	NULL	NULL	NULL	NULL	2254.6	20.64	0.172	2343.16	36.671	0.172
K16-415	591.3	NULL	NULL	NULL	1556.28	0.0252	1959.81	17.665	0.0529	NULL	NULL	NULL	2252.97	19.767	0.197	2337.54	33.945	0.205
K16-415	594.4	NULL	NULL	NULL	1553.8	0.0171	1958.51	19.537	0.0403	NULL	NULL	NULL	2254.88	20.858	0.176	2345.17	38.648	0.176
K16-415	597.2	NULL	NULL	NULL	1553.62	0.0172	NULL	NULL	NULL	NULL	NULL	NULL	2255.82	20.752	0.184	2347	37.127	0.185
K16-415	600.3	1473.3	21.319	0.00546	1565.93	0.0125	1956.55	17.79	0.0312	NULL	NULL	NULL	2256.42	20.616	0.165	2345.23	37.361	0.157
K16-415	603.3	NULL	NULL	NULL	1542.35	0.000448	1914.42	36.512	0.00107	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
K16-415	606.3	NULL	NULL	NULL	1550.95	0.00867	1957.22	23.886	0.0243	2216.89	31.969	0.125	2252.42	18.254	0.133	2343.19	37.425	0.137
K16-415	609.2	1499.48	15.354	0.00486	1568.12	0.00665	1905.63	24.973	0.0213	2215.53	30.421	0.0806	2240.96	12.909	0.0419	2344.42	32.265	0.0511
K16-415	609.4	1497.63	18.919	0.0112	1567.79	0.0146	NULL	NULL	NULL	2213.51	29.353	0.0551	2242.65	17.919	0.0362	2343.43	32.451	0.0272
K16-415	612.5	NULL	NULL	NULL	NULL	NULL	1918.83	26.542	0.029	2214.44	31.338	0.0413	2266.5	12.172	0.0288	2337.65	32.225	0.0805
K16-415	615.3	NULL	NULL	NULL	1556.03	0.00855	1929.22	26.491	0.0319	2205.65	32.353	0.0434	2267.51	11.812	0.0385	2331.29	34.034	0.0481
K16-415	618.3	NULL	NULL	NULL	NULL	NULL	1920.16	40.858	0.238	2206.92	27.18	0.209	NULL	NULL	NULL	2326.56	45.914	0.187
K16-415	621.3	NULL	NULL	NULL	NULL	NULL	1927.24	43.885	0.167	2206.29	27.237	0.0985	2264.7	16.562	0.0369	2338.03	37.529	0.125
K16-415	623.7	1470.72	14.871	0.00774	NULL	NULL	1912.77	30.284	0.034	2206.73	25.691	0.0875	2263.39	17.24	0.0235	2331.28	34.609	0.0485
K16-415	627.3	NULL	NULL	NULL	1542.14	0.00118	1911.9	34.505	0.0239	2207.21	23.59	0.103	2256.92	11.586	0.0191	2355.91	31.844	0.0257
K16-415	632.3	1472.96	17.389	0.00119	1552.87	0.00141	1948.18	39.083	0.0285	2211.76	30.093	0.0484	2240.17	15.505	0.0393	2337.06	26.327	0.0405
K16-415	637.3	NULL	NULL	NULL	NULL	NULL	1931.48	47.051	0.102	2207.15	24.677	0.0281	NULL	NULL	NULL	2337.62	37.254	0.227
K16-415	640.3	NULL	NULL	NULL	NULL	NULL	1920.16	46.032	0.0842	2206.95	25.535	0.0566	NULL	NULL	NULL	2338.52	37.709	0.238
K16-415	643.2	1474.57	18.031	0.00914	1559.04	0.0132	1904.97	29.892	0.0307	2215.19	30.917	0.147	2241.34	11.694	0.0938	2352.76	32.63	0.11
K16-415	645	1474.92	13.837	0.000969	1563.9	0.000722	1916.25	24.366	0.0211	2208.41	27.371	0.0562	2241.64	10.587	0.0266	2342.68	31.885	0.0261
K16-415	646.3	NULL	NULL	NULL	1552.52	0.0002	1911.51	31.259	0.0548	2208.11	23.46	0.192	NULL	NULL	NULL	2352.52	37.775	0.0565
K16-415	649.1	1499.04	16.866	0.0187	NULL	NULL	1921.42	33.761	0.0581	2211.29	23.665	0.0841	2242.74	10.221	0.0714	2335.2	30.348	0.0568
K16-415	0	NULL	NULL	NULL	1565.68	0.000545	1912.98	32.731	0.0574	2209.06	26.362	0.307	NULL	NULL	NULL	2348.5	38.589	0.145
K16-415	0	1499.68	14.263	0.0303	1565.36	0.0374	1957.66	33.504	0.0812	2213.32	32.218	0.105	2242.02	13.987	0.0991	2329.26	32.999	0.0846
K16-415	652.3	1497.82	24.972	0.0161	1567.98	0.0195	1919.33	30.889	0.0371	2224.56	26.56	0.0632	NULL	NULL	NULL	2327.86	32.712	0.0444
K16-415	655.3	1472.22	14.116	0.00583	1541.55	0.001	1942.1	39.38	0.0111	2217.24	29.834	0.132	NULL	NULL	NULL	2349.33	38.435	0.075
K16-415	658.3	1497.71	16.101	0.0176	1566.5	0.0215	1949.21	33	0.0402	2218.62	27.643	0.0795	2242.25	13.156	0.0538	2340.38	35.483	0.0443
K16-415	661.3	1470.49	18.12	0.000627	1549.96	0.00125	1910.88	32.485	0.0169	2216.84	30.044	0.127	2242.69	16.919	0.0498	2345.08	35.868	0.0643
K16-415	664.3	1497.28	13.019	0.00225	1564.01	0.00116	1904.33	25.54	0.0193	2217.94	31.152	0.136	NULL	NULL	NULL	2352.39	36.335	0.0602
K16-415	667.4	NULL	NULL	NULL	1543.36	0.000661	1913.92	32.455	0.0152	2211.02	29.228	0.127	2243.13	16.056	0.0469	2353.05	35.355	0.062
K16-415	670.3	NULL	NULL	NULL	1548.14	0.00738	1908.18	30.302	0.0307	2216.72	28.312	0.126	NULL	NULL	NULL	2350.55	29.152	0.0502
K16-415	673.3	NULL	NULL	NULL	1547.71	0.00256	1907.8	26.873	0.02	2217.77	29.229	0.0977	2243.91	16.28	0.0385	2351.73	35.602	0.0445
K16-415	676.5	NULL	NULL	NULL	1564.56	0.000949	1912.66	35.889	0.0151	2210.33	28.557	0.0998	NULL	NULL	NULL	NULL	NULL	NULL
K16-415	679.3	NULL	NULL	NULL	1548.9	0.00447	1908.12	30.876	0.111	2217.05	32.742	0.4	NULL	NULL	NULL	2352.72	39.684	0.255
K16-415	682.3	NULL	NULL	NULL	1553.66	0.00355	1911.4	33.389	0.0932	2217.29	33.144	0.438	NULL	NULL	NULL	2350.49	39.586	0.278
K16-415	685.3	NULL	NULL	NULL	1554.07	0.00435	1911.43	34.279	0.0278	2216.75	33.615	0.424	NULL	NULL	NULL	2349.23	40.75	0.259
K16-415	688.4	1494.63	18.385	0.00337	1549.15	0.00522	1903.43	25.157	0.0144	2220.29	29.152	0.149	2240.95	14.008	0.0782	2349.99	37.688	0.0915

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-415	691.3	NULL	NULL	NULL	1566.97	0.00256	1922	36.485	0.0152	2219.81	29.312	0.123	NULL	NULL	NULL	2354.53	36.434	0.0766
K16-415	694.3	1498.41	15.35	0.00284	1546.5	0.00406	1904.72	29.492	0.0195	2219.49	28.786	0.164	NULL	NULL	NULL	2353.55	35.362	0.106
K16-415	697.3	NULL	NULL	NULL	1564.93	0.0189	1941.57	26.429	0.0495	2213.32	29.606	0.0722	2243.29	19.257	0.0483	2340.93	24.007	0.0391
K16-415	699.1	NULL	NULL	NULL	NULL	NULL	1907.84	30.052	0.0334	2218.09	33.451	0.378	NULL	NULL	NULL	2347	40.682	0.238
K16-415	700.3	NULL	NULL	NULL	1551.12	0.00104	1919.16	36.683	0.0205	2218.79	31.185	0.259	NULL	NULL	NULL	2350.4	38.713	0.158
K16-415	703.2	NULL	NULL	NULL	1551.37	0.00603	1958.6	23.785	0.0243	2218.99	31.254	0.098	2253.26	17.141	0.138	2345.77	37.901	0.142
K16-415	706.1	NULL	NULL	NULL	1566.48	0.00597	1957.28	27.595	0.0184	NULL	NULL	NULL	2253.79	17.721	0.0994	2347.57	39.424	0.0938
K16-415	706.3	1471.96	20.104	0.000436	1557.59	0.0038	NULL	NULL	NULL	2219.07	31.099	0.101	2252.82	18.942	0.114	2343.97	38.6	0.128
K16-415	709.3	1472.65	25.906	0.000309	1563.61	0.00188	1909.74	32.047	0.00708	2218.81	31.108	0.249	NULL	NULL	NULL	2350.8	39.249	0.158
K16-415	712.3	NULL	NULL	NULL	1548.58	0.00209	1909.72	31.171	0.0717	2218.55	32.736	0.311	NULL	NULL	NULL	2350.29	41.235	0.189
K16-415	715.3	NULL	NULL	NULL	1558.39	0.00125	1909.65	30.587	0.012	2219.1	30.996	0.167	NULL	NULL	NULL	2353.14	35.91	0.104
K16-415	718.3	1498.78	18.891	0.0155	1566.53	0.0194	1934.7	38.549	0.0512	2217.84	31.836	0.0841	2240.03	11.259	0.065	2334.2	36.441	0.0518
K16-415	0	1472.37	29.846	0.000153	1561.69	0.000567	1910.54	30.957	0.0238	2210.25	29.862	0.206	NULL	NULL	NULL	2354.87	39.336	0.1
K16-415	0	NULL	NULL	NULL	NULL	NULL	1929.85	42.493	0.103	2215.78	30.232	0.0357	NULL	NULL	NULL	2336.65	35.066	0.0284
K16-415	721.3	NULL	NULL	NULL	NULL	NULL	1930.12	44.865	0.141	2229.73	25.07	0.0449	NULL	NULL	NULL	2324.73	43.791	0.187
K16-415	724.3	NULL	NULL	NULL	NULL	NULL	1936.61	48.558	0.0852	NULL	NULL	NULL	NULL	NULL	NULL	2323.73	44.891	0.249
K16-415	727.3	NULL	NULL	NULL	NULL	NULL	1911.33	33.135	0.105	2208.81	27.137	0.244	NULL	NULL	NULL	2344.19	40.754	0.116
K16-415	730.3	NULL	NULL	NULL	1537.79	0.00199	1910.39	31.816	0.0744	2209.05	27.713	0.351	NULL	NULL	NULL	2347.68	40.003	0.166
K16-415	733.3	NULL	NULL	NULL	1550.25	0.000224	1911.57	33.244	0.068	2209.36	28.572	0.328	NULL	NULL	NULL	2350.13	40.107	0.153
K16-415	736.3	NULL	NULL	NULL	NULL	NULL	1912.86	38.14	0.0811	2209.22	29.399	0.216	NULL	NULL	NULL	2343.4	41.706	0.104
K16-415	739.3	NULL	NULL	NULL	1538.27	0.000478	1912.13	33.832	0.0583	2210.15	31.315	0.145	NULL	NULL	NULL	2344.29	39.559	0.075
K16-415	742.3	1473.88	16.456	0.0119	1552.2	0.000397	1910.8	31.897	0.0908	2209.56	30.311	0.329	NULL	NULL	NULL	2347.73	39.981	0.154
K16-415	745.3	1496.44	16.22	0.0264	NULL	NULL	NULL	NULL	NULL	2215.45	27.781	0.0688	2242.85	19.135	0.0561	2337.73	27.93	0.0445
K16-415	748.3	NULL	NULL	NULL	1541.93	0.00464	1943.86	46.179	0.064	2210.04	30.892	0.234	2248.2	20.399	0.123	2346.96	38.161	0.159
K16-415	751.5	NULL	NULL	NULL	1552.85	0.00778	1958.42	29.549	0.0349	2211.72	30.955	0.206	2251.61	20.303	0.144	2345.65	38.29	0.164
K16-415	752.3	NULL	NULL	NULL	1537.59	0.00023	1911.43	34.042	0.0686	2208.59	22.391	0.2	NULL	NULL	NULL	2352.81	38.979	0.0743
K16-415	754.3	NULL	NULL	NULL	1540.31	0.00117	1909.49	30.882	0.162	2212.14	32.845	0.354	NULL	NULL	NULL	2347.87	39.216	0.206
K16-415	0	NULL	NULL	NULL	1538.44	0.00141	1911.06	32.346	0.168	2211.19	33.672	0.295	NULL	NULL	NULL	2344.26	39.57	0.17
K16-415	0	NULL	NULL	NULL	1553.53	0.00717	1908.39	25.986	0.0331	2217.45	31.519	0.214	2243.4	18.838	0.121	2346.46	37.302	0.15
K16-415	757.3	NULL	NULL	NULL	1551.24	0.00267	1909.24	25.927	0.0322	2218.61	31.357	0.259	NULL	NULL	NULL	2349.13	37.955	0.167
K16-415	760.3	NULL	NULL	NULL	NULL	NULL	1929.25	46.075	0.214	2222.81	28.961	0.0795	NULL	NULL	NULL	2336.74	40.223	0.391
K16-415	763.3	NULL	NULL	NULL	NULL	NULL	1928.28	46.8	0.178	NULL	NULL	NULL	NULL	NULL	NULL	2335.22	39.514	0.252
K16-415	766.3	NULL	NULL	NULL	1550.7	0.0238	1957.79	24.285	0.0744	NULL	NULL	NULL	2254.13	19.816	0.201	2343.84	32.419	0.204
K16-415	769.3	NULL	NULL	NULL	1550.06	0.0127	1954.59	42.617	0.0457	2211.54	32.089	0.16	2251.8	18.675	0.13	2338.98	38.593	0.166
K16-415	772.3	NULL	NULL	NULL	1550.25	0.00386	1956.64	40.87	0.0267	2212.96	32.564	0.137	2251.21	20.091	0.0957	2347.09	37.48	0.115
K16-415	775.1	NULL	NULL	NULL	1563.67	0.00534	1958.41	19.914	0.0202	2217.61	32.059	0.117	2253.41	18.519	0.112	2349.76	36.234	0.128
K16-415	778.3	NULL	NULL	NULL	NULL	NULL	1933.17	45.479	0.197	2215.22	31.177	0.0988	NULL	NULL	NULL	2342.22	38.324	0.0857

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-415	781.3	1470.11	8.346	0.000747	1547.17	0.00237	1913.15	31.442	0.00311	2217.22	33.075	0.231	NULL	NULL	NULL	2347.58	38.523	0.163
K16-415	784.3	1473.23	15.14	0.00239	1557.02	0.00113	1912.97	30.89	0.0146	2216.53	33.282	0.249	NULL	NULL	NULL	2345.45	39.595	0.155
K16-415	787.3	NULL	NULL	NULL	NULL	NULL	1911.8	33.744	0.0356	2216.46	32.634	0.211	NULL	NULL	NULL	2345.39	39.509	0.15
K16-415	790.3	NULL	NULL	NULL	NULL	NULL	1923.04	36.602	0.0194	2218.41	32.876	0.278	NULL	NULL	NULL	2347.83	39.795	0.188
K16-415	793.3	NULL	NULL	NULL	1557.94	0.000315	1909.69	32.035	0.0757	2217.18	33.134	0.275	NULL	NULL	NULL	2349.19	39.195	0.164
K16-415	796.3	NULL	NULL	NULL	1538.78	0.00256	1910.94	32.385	0.0348	2216.77	32.823	0.331	NULL	NULL	NULL	2344.92	40.619	0.216
K16-415	799.3	1472.03	14.556	0.00407	1550.21	0.00124	1911.38	31.502	0.0292	2216.82	32.628	0.326	NULL	NULL	NULL	2346.08	39.552	0.211
K16-415	802.3	1470.23	6.385	0.0017	1550.21	0.0014	1909.62	32.973	0.0232	2217.49	32.933	0.321	NULL	NULL	NULL	2349.31	38.714	0.206
K16-415	805.3	NULL	NULL	NULL	1550.24	0.00795	1956.69	20.454	0.0169	2219.79	29.995	0.109	2250.88	18.38	0.136	2345.41	36.166	0.152
K16-415	808.3	NULL	NULL	NULL	NULL	NULL	1911.97	35.774	0.00744	2217.36	33.456	0.276	NULL	NULL	NULL	2349.46	40.49	0.172
K16-415	811.3	NULL	NULL	NULL	1548.85	0.00432	1911.12	31.003	0.037	2215.66	33.844	0.324	NULL	NULL	NULL	2345.88	39.773	0.21
K16-415	814.3	NULL	NULL	NULL	NULL	NULL	1954.77	24.68	0.00562	2216.54	31.596	0.13	2249.99	20.709	0.081	2350.16	37.971	0.111
K16-415	817.3	1470.02	9.112	0.00137	1556.18	0.000983	1952.33	32.611	0.00815	2216.7	30.782	0.131	NULL	NULL	NULL	2346.86	38.425	0.0854
K16-415	820.3	NULL	NULL	NULL	NULL	NULL	1931.51	44.687	0.0923	2214.75	30.134	0.0644	NULL	NULL	NULL	2336.83	37.313	0.0576
K16-415	0	NULL	NULL	NULL	NULL	NULL	1930.73	45.369	0.0517	2216.45	30.506	0.099	NULL	NULL	NULL	2343.19	38.486	0.0845
K16-415	0	1470.97	11.408	0.00274	1561.56	0.0021	1953.3	20.957	0.00912	2218.59	29.317	0.111	NULL	NULL	NULL	2346.36	41.128	0.0684
K16-415	823.3	NULL	NULL	NULL	1559.46	0.0216	1924.68	40.124	0.0385	2223.14	27.006	0.0528	2242	19.688	0.039	2330.08	31.944	0.0402
K16-415	826.3	1472.3	16.055	0.000826	1554.53	0.000475	NULL	NULL	NULL	NULL	NULL	NULL	2263.69	10.24	0.000646	2357.8	32.649	0.00707
K16-415	829.3	NULL	NULL	NULL	1566	0.0193	1927.53	38.273	0.0417	2220.13	23.067	0.0577	2242.32	13.442	0.0498	2342.7	25.223	0.0432
K16-415	832.3	NULL	NULL	NULL	NULL	NULL	1934.9	46.702	0.113	NULL	NULL	NULL	NULL	NULL	NULL	2328.28	45.726	0.22
K16-415	841.3	NULL	NULL	NULL	NULL	NULL	1927.95	45.972	0.25	2181.7	24.986	0.0222	NULL	NULL	NULL	2326.75	19.623	0.0058
K16-415	844.3	NULL	NULL	NULL	1566.71	0.0132	1923.78	36.748	0.0258	2211.75	32.669	0.0483	2248.43	16.896	0.0387	2347.67	26.274	0.0551
K16-415	0	NULL	NULL	NULL	NULL	NULL	1937.28	44.544	0.0393	2217.65	28.509	0.0563	NULL	NULL	NULL	2336.42	37.126	0.198
K16-416	0	1473.84	13.419	0.00618	1541.01	0.00482	1922.56	39.59	0.0182	2214.28	30.642	0.159	NULL	NULL	NULL	2345.59	36.966	0.0927
K16-416	7.07	1498.74	18.51	0.00219	1551.05	0.00683	1913.5	38.362	0.0127	2215.13	31.126	0.043	2248.93	13.007	0.0394	2349.66	36.554	0.0419
K16-416	13.02	NULL	NULL	NULL	NULL	NULL	1931.81	45.392	0.0422	2227.55	21.704	0.017	NULL	NULL	NULL	2337.14	39.535	0.169
K16-416	15.34	NULL	NULL	NULL	1551.44	0.0372	1958.35	22.092	0.0639	2215.96	33.16	0.226	2251.16	18.839	0.216	2341.55	36.296	0.231
K16-416	21.67	NULL	NULL	NULL	1551.2	0.0293	1951.79	40.953	0.0453	2214.43	34.219	0.328	2242.86	20.343	0.184	2349.79	38.827	0.236
K16-416	22.89	1497.61	17.092	0.00907	1543.71	0.0108	1919.01	34.465	0.0235	2216.95	31.951	0.0421	2241.08	11.979	0.027	2329.91	36.048	0.0309
K16-416	27.36	NULL	NULL	NULL	1550.69	0.0333	NULL	NULL	NULL	2214.23	32.93	0.206	2252.22	18.764	0.211	2347.13	36.007	0.22
K16-416	30.39	1499.71	12.49	0.0207	1562.59	0.0253	1921.5	20.004	0.0524	2202.9	27.594	0.0627	2242.5	13.529	0.0504	2326.9	33.783	0.042
K16-416	34.82	NULL	NULL	NULL	1551.69	0.0357	NULL	NULL	NULL	2213.8	34.34	0.295	2249.07	20.592	0.198	2347.29	37.87	0.231
K16-416	39.86	NULL	NULL	NULL	1550.94	0.0108	1954.66	18.875	0.034	NULL	NULL	NULL	2254.89	19.898	0.166	2347.07	36.437	0.156
K16-416	41.44	NULL	NULL	NULL	1543.47	0.0113	1911.11	29.722	0.252	2205.49	28.875	0.194	2254.69	19.169	0.17	2346.49	37.619	0.18
K16-416	48.44	NULL	NULL	NULL	1551.57	0.0105	1910.56	27.844	0.166	2206.88	26.871	0.237	2253.75	20.072	0.162	2346.58	36.156	0.165
K16-416	51.66	1496.08	18.961	0.0103	1567.78	0.015	1914.4	23.714	0.035	2212.02	29.874	0.0658	2243.21	17.412	0.0393	2352.72	34.155	0.0515
K16-416	53.21	NULL	NULL	NULL	NULL	NULL	1930.3	44.45	0.164	2214.15	36.889	0.0121	2265.43	12.464	0.00467	2331.69	32.983	0.039

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-416	59.4	1470.19	13.183	0.00106	1551.82	0.00326	1924.83	37.305	0.0126	2215.55	30.545	0.11	2245.54	20.637	0.0513	2351.63	34.851	0.0823
K16-416	61.36	1497.76	13.906	0.0149	1551.69	0.0193	1943.06	38.721	0.0408	2218.35	26.039	0.07	2242	15.387	0.0478	2339.1	34.037	0.0484
K16-416	63.36	1471.81	23.222	0.00723	1542.53	0.0101	1928.62	36.87	0.018	2213.06	31.286	0.07	NULL	NULL	NULL	2348.01	31.477	0.0425
K16-416	66.74	NULL	NULL	NULL	NULL	NULL	1924.47	30.75	0.00113	NULL	NULL	NULL	2243.81	16.038	0.00126	NULL	NULL	NULL
K16-416	68.97	1473.54	18.61	0.00947	1539.13	0.00211	1932.95	41.971	0.0302	2215.56	29.275	0.0845	NULL	NULL	NULL	2345.51	38.445	0.0652
K16-416	70.82	NULL	NULL	NULL	1561.04	0.00592	1943.58	31.722	0.0168	2213.07	31.079	0.0675	2246.99	15.161	0.0395	2347.75	32.283	0.0486
K16-416	76.02	NULL	NULL	NULL	1537.03	0.00253	1912.85	35.659	0.0685	2208.19	24.093	0.283	NULL	NULL	NULL	2351.44	37.952	0.105
K16-416	79.96	1471.93	15.575	0.00334	1546.24	0.00497	1958.06	38.672	0.0156	2216.68	32.111	0.0524	2244.16	21.02	0.0386	2350.14	34.474	0.0518
K16-416	81.93	NULL	NULL	NULL	1564.5	0.0377	1947.23	23.202	0.0736	2204.34	31.849	0.0748	2253.47	14.323	0.0738	2309.51	35.333	0.0675
K16-416	85.2	NULL	NULL	NULL	1543.04	0.00511	1957.11	26.544	0.0201	2215.74	31.617	0.0563	2251.68	15.81	0.0577	2343.64	37.527	0.0709
K16-416	87.74	NULL	NULL	NULL	NULL	NULL	1928	45.186	0.0599	2215.58	28.654	0.0334	NULL	NULL	NULL	2341.89	33.625	0.0789
K16-416	90.74	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2216.13	30.951	0.132	NULL	NULL	NULL	2350.07	37.213	0.088
K16-416	94.93	1472.49	14.566	0.00093	1539.48	0.00143	1941.88	38.352	0.00878	2216.77	31.729	0.149	2243.05	18.668	0.0713	2353.68	37.209	0.0993
K16-416	97.91	NULL	NULL	NULL	1553.03	0.0219	NULL	NULL	NULL	NULL	NULL	NULL	2253.9	19.897	0.187	2342.76	36.309	0.172
K16-416	101.65	NULL	NULL	NULL	1551.89	0.0295	NULL	NULL	NULL	NULL	NULL	NULL	2255.72	21.022	0.195	2342.76	34.939	0.201
K16-416	102.9	NULL	NULL	NULL	1555.44	0.0231	NULL	NULL	NULL	NULL	NULL	NULL	2255.89	20.822	0.157	2343.02	35.143	0.166
K16-416	105.64	NULL	NULL	NULL	NULL	NULL	1910.73	32.026	0.24	2198.65	33.846	0.231	NULL	NULL	NULL	2344.63	35.564	0.0911
K16-416	107.74	NULL	NULL	NULL	NULL	NULL	1912.08	34.81	0.112	2205.9	33.079	0.107	NULL	NULL	NULL	2342.15	40.347	0.0521
K16-416	110.75	NULL	NULL	NULL	NULL	NULL	1913.25	33.441	0.108	2198.15	32.936	0.0914	2242.44	16.197	0.0115	2341.07	38.675	0.0316
K16-416	114.11	NULL	NULL	NULL	NULL	NULL	1909.68	31.689	0.304	2205.38	31.956	0.285	NULL	NULL	NULL	2346.97	38.175	0.142
K16-416	118.7	1473.11	17.319	0.00234	1539.96	0.00127	1957.62	24.782	0.0021	NULL	NULL	NULL	2242.26	12.258	0.000797	2358.94	29.478	0.00785
K16-416	120.1	NULL	NULL	NULL	NULL	NULL	1912.47	32.801	0.00202	NULL	NULL	NULL	2246.39	11.807	0.000996	2345.51	34.207	0.00685
K16-416	129.99	NULL	NULL	NULL	1544.69	0.00915	NULL	NULL	NULL	2218.02	30.637	0.106	2253.35	16.983	0.159	2347.33	36.454	0.166
K16-416	137.81	1497.62	13.791	0.00537	1567.14	0.00902	1959.11	25.699	0.0246	2213.49	28.909	0.042	2241.97	18.902	0.0263	2340.13	27.523	0.0285
K16-416	0	NULL	NULL	NULL	1546.85	0.00485	NULL	NULL	NULL	2216.9	31.639	0.0653	2256.49	19.298	0.105	2349.83	35.816	0.108
K16-416	0	1472.95	13.519	0.00134	1549.23	0.000918	1912.78	31.276	0.0159	2216.75	32.409	0.25	NULL	NULL	NULL	2350.23	39.734	0.175
K16-416	142.06	NULL	NULL	NULL	1546.45	0.00103	1912.94	33.831	0.0173	2217.05	32.599	0.244	NULL	NULL	NULL	2348.45	40.172	0.168
K16-416	147.66	NULL	NULL	NULL	1545.92	0.00076	1911.41	30.917	0.0297	2215.48	32.11	0.214	NULL	NULL	NULL	2350.27	37.113	0.128
K16-416	151.09	NULL	NULL	NULL	1544.72	0.00096	1909.78	30.606	0.0231	2215.73	31.553	0.227	NULL	NULL	NULL	2350.72	36.635	0.133
K16-416	158.59	NULL	NULL	NULL	1539.95	0.000738	1912	31.225	0.0308	2213.76	33.917	0.277	NULL	NULL	NULL	2349.43	38.818	0.186
K16-416	164.97	NULL	NULL	NULL	1545.14	0.00164	1914.35	30.074	0.0306	2211.81	33.221	0.116	2249.84	19.923	0.0741	2345.3	38.808	0.0974
K16-416	170.81	NULL	NULL	NULL	1541.05	0.000646	1914.1	30.019	0.0231	2212.98	33.698	0.245	NULL	NULL	NULL	2348.31	37.651	0.155
K16-416	171.47	1473.37	19.865	0.00156	1540.63	0.0022	1913.33	31.183	0.0241	2211.77	33.438	0.173	2246.02	20.186	0.0946	2347.84	39.173	0.132
K16-416	173.4	1472.83	12.941	0.00196	1564.09	0.000354	1911.09	30.95	0.0643	2209.63	32.619	0.2	NULL	NULL	NULL	2347.61	40.134	0.122
K16-416	175.74	NULL	NULL	NULL	1541.21	0.000571	1911.03	32.377	0.0671	2210.73	33.838	0.236	NULL	NULL	NULL	2347.62	39.928	0.143
K16-416	178.93	NULL	NULL	NULL	1547.71	0.000535	1914.2	33.167	0.0239	2213.5	32.774	0.253	NULL	NULL	NULL	2349.95	36.498	0.155
K16-416	182.1	NULL	NULL	NULL	1541.24	0.00341	1910.05	30.979	0.11	2209.39	31.088	0.199	NULL	NULL	NULL	2344	39.716	0.0966

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-416	184.24	NULL	NULL	NULL	1540.62	0.000436	1911.57	34.511	0.0695	2210.42	33.393	0.264	NULL	NULL	NULL	2349.83	37.893	0.147
K16-416	187.88	NULL	NULL	NULL	1545.11	0.000571	1908.56	29.679	0.126	2210.18	34.758	0.434	NULL	NULL	NULL	2349.21	39.264	0.254
K16-416	190.71	NULL	NULL	NULL	1550.73	0.000485	1910.18	30.826	0.0675	2211.42	34.189	0.491	NULL	NULL	NULL	2350.21	38.088	0.311
K16-416	193.25	NULL	NULL	NULL	1550.31	0.000615	1910.57	31.581	0.0749	2211.09	34.253	0.473	NULL	NULL	NULL	2349.69	38.047	0.3
K16-416	200.8	NULL	NULL	NULL	1539.2	0.00607	1930.09	41.657	0.0156	2206.32	25.496	0.261	2244.36	16.651	0.253	NULL	NULL	NULL
K16-416	198.01	NULL	NULL	NULL	NULL	NULL	1928.54	32.147	0.0241	2206.76	25.656	0.225	2244.55	16.529	0.224	NULL	NULL	NULL
K16-416	203.05	NULL	NULL	NULL	1540.42	0.008	1932.22	37.628	0.0181	2206.39	25.588	0.296	2244.56	16.626	0.288	NULL	NULL	NULL
K16-416	206.65	NULL	NULL	NULL	1550.36	0.000313	1909.88	30.532	0.0884	2207.96	23.801	0.228	NULL	NULL	NULL	2352.37	40.236	0.0648
K16-416	209.22	1478.06	12.056	0.000626	NULL	NULL	1909.23	29.895	0.0539	2211.73	32.154	0.28	NULL	NULL	NULL	2351.03	38.212	0.155
K16-416	211.71	NULL	NULL	NULL	1547.34	0.000289	1909.6	30.24	0.0666	2211.15	31.8	0.299	NULL	NULL	NULL	2350.92	37.265	0.165
K16-416	213.95	NULL	NULL	NULL	1541.22	0.000798	1910.68	31.707	0.129	2212.35	32.924	0.172	NULL	NULL	NULL	2346.06	38.466	0.103
K16-416	0	NULL	NULL	NULL	NULL	NULL	1909.34	31.265	0.223	2209.07	32.36	0.264	NULL	NULL	NULL	2347.79	38.388	0.144
K16-416	0	NULL	NULL	NULL	1539.55	0.000166	1909.88	31.433	0.223	2209.91	32.339	0.245	NULL	NULL	NULL	2346.29	37.779	0.141
K16-416	216.63	NULL	NULL	NULL	1565.67	0.000524	1909.7	29.83	0.0668	2215.8	33.539	0.339	NULL	NULL	NULL	2348.9	39.556	0.208
K16-416	219.82	NULL	NULL	NULL	1546.13	0.000542	1909.59	32.555	0.0812	2215.69	33.982	0.333	NULL	NULL	NULL	2349.32	39.518	0.207
K16-416	222.36	NULL	NULL	NULL	1542.75	0.000524	1908.74	30.455	0.0603	2215.18	33.792	0.323	NULL	NULL	NULL	2349.57	39.073	0.201
K16-416	223.23	NULL	NULL	NULL	1539.93	0.00172	1903.9	36.931	0.0126	NULL	NULL	NULL	2240.15	10.8	0.00161	2346.36	37.94	0.00454
K16-416	226.8	NULL	NULL	NULL	NULL	NULL	1918.02	35.256	0.000712	NULL	NULL	NULL	NULL	NULL	NULL	2353	33.768	0.00742
K16-416	229.37	1472.71	17.186	0.000409	1545.05	0.000947	1912.87	30.344	0.0159	2215.73	32.579	0.227	NULL	NULL	NULL	2352.62	38.009	0.14
K16-416	232.29	NULL	NULL	NULL	1565.87	0.000563	1916.06	27.932	0.0129	2215.89	32	0.178	NULL	NULL	NULL	2351.86	36.798	0.121
K16-416	235.9	NULL	NULL	NULL	1564.11	0.000755	1917.23	32.054	0.0131	2215.95	32.456	0.156	NULL	NULL	NULL	2350.32	37.407	0.106
K16-416	236.7	NULL	NULL	NULL	1537.92	0.000762	1909.27	31.947	0.0214	2216.15	32.906	0.322	NULL	NULL	NULL	2349.13	38.097	0.202
K16-416	239.71	1472.79	14.01	0.00337	1560.5	0.00139	1913.56	31.061	0.0507	2213.58	32.242	0.148	NULL	NULL	NULL	2343.34	40.403	0.11
K16-416	242.56	1472.76	16.214	0.00156	1557.03	0.00148	1913.95	28.258	0.0253	2216.26	31.413	0.149	2240.32	18.02	0.0716	2346.6	38.549	0.102
K16-416	246.32	1489.27	15.516	0.000698	1538.46	0.00198	1921.09	42.444	0.00989	2217.54	30.433	0.176	NULL	NULL	NULL	2347.7	33.601	0.108
K16-416	249.73	1470.18	13.782	0.00881	NULL	NULL	1913.45	33.887	0.0519	2208.35	26.004	0.0682	2242.71	18.276	0.0254	2346.8	38.934	0.0519
K16-416	255.6	1497.01	12.897	0.0107	1562.37	0.0159	1944.95	31.167	0.0423	2212.62	28.862	0.087	2242.1	18.251	0.0756	2342.57	33.605	0.0648
K16-416	258.61	1498.24	16.55	0.0173	1567.06	0.023	1943.77	31.072	0.0347	2217.08	26.602	0.0564	2242.52	16.744	0.0372	2308.32	33.644	0.0316
K16-416	259.63	1499.84	16.403	0.012	1566.24	0.0163	1903.56	35.003	0.0259	2217.38	27.139	0.0789	2242.65	14.467	0.0429	2350.41	28.107	0.052
K16-416	263.14	1497.47	19.315	0.0234	NULL	NULL	1917.33	31.036	0.0455	2216.32	29.511	0.119	NULL	NULL	NULL	2355.49	37.324	0.0854
K16-416	263.97	NULL	NULL	NULL	NULL	NULL	1937.16	46.095	0.0397	2218.92	26.414	0.048	NULL	NULL	NULL	2339.31	33.115	0.113
K16-416	264.72	NULL	NULL	NULL	1550.12	0.0115	1915.91	40.22	0.0167	2211.72	32.015	0.0475	NULL	NULL	NULL	2353.86	32.336	0.0274
K16-416	265.86	NULL	NULL	NULL	1546.62	0.00603	1954.42	29.215	0.0183	2215.07	32.368	0.0494	2259.37	20.045	0.119	2349.95	34.365	0.118
K16-416	269.06	NULL	NULL	NULL	1549	0.00929	1952.49	22.332	0.0214	2216.01	31.617	0.0589	2257	19.461	0.144	2350.55	33.235	0.14
K16-416	270.69	1473.49	14.755	0.00188	1556.78	0.00667	1953.62	22.183	0.0201	2218.37	32.287	0.0604	2255.87	18.877	0.112	2347	32.502	0.116
K16-416	273.6	NULL	NULL	NULL	1550.51	0.00888	1913.2	32.769	0.0781	2214.73	33.314	0.253	NULL	NULL	NULL	2348.18	38.761	0.185
K16-416	276.36	NULL	NULL	NULL	NULL	NULL	1932.85	46.724	0.269	2191.2	33.885	0.0128	2252.21	13.449	0.00436	2340.39	32.723	0.0271

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-416	0	1485.58	18.67	0.14	NULL	NULL	1932.41	48.247	0.181	NULL	NULL	NULL	NULL	NULL	NULL	2334.75	43.596	0.448
K16-416	0	1497.31	14.51	0.0218	1555.73	0.0277	NULL	NULL	NULL	2212.02	30.125	0.0526	2249.04	13.511	0.0374	2332.4	35.042	0.0555
K16-416	279.49	1473.78	14.05	0.00161	1549.06	0.00591	1910.96	36.77	0.016	2220.36	28.369	0.0644	2248.36	16.01	0.0439	2346.4	34.176	0.0542
K16-416	282.77	1473.89	18.982	0.00254	NULL	NULL	1951.24	43.98	0.00248	NULL	NULL	NULL	2242.1	14.398	0.000953	2344.42	29.81	0.00266
K16-416	285.74	1471.15	12.478	0.000857	NULL	NULL	1921.47	31.563	0.00101	NULL	NULL	NULL	2251.35	20.079	0.000649	2349.82	33.102	0.00609
K16-416	288.1	1483.15	14.109	0.00153	1548.97	0.000667	1958.01	26.775	0.0132	2216.57	29.977	0.0877	NULL	NULL	NULL	2345.65	34.499	0.0705
K16-416	396.64	NULL	NULL	NULL	NULL	NULL	1957.3	37.468	0.0186	2217.18	30.081	0.0741	2250.68	15.434	0.048	2345.72	34.969	0.0915
K16-416	300.35	1491.4	20.162	0.00598	1540.6	0.00712	1926.33	36.441	0.0242	2213.59	27.505	0.0647	2250.93	15.219	0.0477	2347.85	31.281	0.0553
K16-416	301.96	NULL	NULL	NULL	1542.26	0.00493	1957.03	22.825	0.0139	2217.62	30.315	0.0764	2247.98	20.455	0.0511	2346.88	34.268	0.0738
K16-416	311.75	1475.22	14.368	0.00463	1564.53	0.00568	1915.29	31.361	0.0171	2218.12	27.446	0.0684	2251.25	19.111	0.044	2347.63	33.718	0.0625
K16-416	314.96	1472.02	18.311	0.0222	NULL	NULL	1922.34	44.548	0.0418	2220.17	29.574	0.0548	NULL	NULL	NULL	2338.5	39.459	0.174
K16-416	318.32	1498.21	20.164	0.0196	1566.82	0.0233	1916.37	33.327	0.0437	2206.73	30.061	0.05	2248.43	13.345	0.0449	2315.09	34.84	0.0439
K16-416	319.65	1496.24	22.382	0.113	NULL	NULL	1959.91	44.972	0.11	NULL	NULL	NULL	NULL	NULL	NULL	2335.14	43.284	0.448
K16-416	321.41	1471.56	15.073	0.0276	1537.48	0.0231	1915.19	36.667	0.026	2221.32	30.424	0.0286	NULL	NULL	NULL	2339.33	39.073	0.152
K16-416	322.95	NULL	NULL	NULL	1563.39	0.0035	1902.05	30.703	0.0181	2215.37	31.406	0.0531	2240.32	16.78	0.044	2339.74	36.324	0.061
K16-416	339.09	1472.9	14.719	0.0375	1540.36	0.0321	1924.79	44.842	0.0411	NULL	NULL	NULL	NULL	NULL	NULL	2335.02	39.243	0.225
K16-416	343.24	1476.28	21.124	0.0708	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2336.26	41.552	0.35
K16-416	348.52	NULL	NULL	NULL	NULL	NULL	1924.01	47.854	0.0859	NULL	NULL	NULL	NULL	NULL	NULL	2333.8	38.848	0.243
K16-416	350.73	1473.62	12.006	0.000669	1551.06	0.00393	1906.32	32.045	0.0248	2216.71	34.196	0.296	NULL	NULL	NULL	2349.49	40.66	0.178
K16-416	0	NULL	NULL	NULL	1550.58	0.00312	1906.45	35.05	0.0283	2217.78	33.714	0.306	NULL	NULL	NULL	2350.08	39.842	0.193
K16-416	0	1477.59	16.627	0.0837	NULL	NULL	1958.2	48.748	0.0907	NULL	NULL	NULL	NULL	NULL	NULL	2335.87	41.433	0.345
K16-416	362.28	NULL	NULL	NULL	1553.7	0.0398	1957.33	19.533	0.053	2217.02	33.32	0.265	2249.27	20.192	0.209	2346.27	38.617	0.209
K16-416	363.03	1472.37	13.284	0.0329	NULL	NULL	1924.82	47.492	0.0691	2218.3	31.56	0.166	NULL	NULL	NULL	2340.15	36.461	0.193
K16-416	366.65	1471.72	17.81	0.000637	NULL	NULL	1902.41	26.614	0.00421	NULL	NULL	NULL	2252.62	16.049	0.00114	2338.28	32.64	0.00421
K16-416	370.29	1479.12	15.505	0.000728	1544.7	0.000381	1903.11	31.453	0.000996	2183.53	23.93	0.00967	2254.79	16.887	0.00115	2354.61	32.253	0.00697
K16-416	373.63	NULL	NULL	NULL	1558.2	0.0292	NULL	NULL	NULL	2219.93	32.165	0.142	2253.08	17.694	0.209	2348.87	37.357	0.195
K16-416	375.91	NULL	NULL	NULL	1556.24	0.0248	1957.84	19.134	0.0504	2218.79	31.843	0.129	2253.08	17.606	0.187	2346.53	37.933	0.175
K16-416	377.07	NULL	NULL	NULL	1555.76	0.0245	1959.91	21.016	0.0541	2221.05	31.099	0.125	2253.21	17.93	0.211	2346.08	36.817	0.201
K16-416	380.37	NULL	NULL	NULL	NULL	NULL	1929.68	45.431	0.184	NULL	NULL	NULL	NULL	NULL	NULL	2335.78	40.792	0.325
K16-416	383.61	NULL	NULL	NULL	1553.95	0.00658	NULL	NULL	NULL	2215.12	30.712	0.0788	2255.25	16.611	0.094	2354.75	34.352	0.108
K16-416	386.25	1473.35	17.505	0.000962	1550.6	0.00579	1955.44	25.694	0.018	2212.65	31.251	0.0646	2252.92	15.637	0.0892	2346.1	36.251	0.0987
K16-416	389.31	NULL	NULL	NULL	1553.71	0.00629	1958.58	23.166	0.0192	NULL	NULL	NULL	2253.15	18.694	0.135	2341.65	37.62	0.128
K16-416	392.23	1473.97	13.408	0.00129	1548.82	0.00544	1958.98	26.385	0.0181	2219.63	31.02	0.0511	2252.78	16.556	0.0941	2349.52	34.716	0.0996
K16-416	395.48	NULL	NULL	NULL	1552.16	0.00651	1957.63	27.5	0.0195	2221.02	29.738	0.0579	2252.63	17.545	0.113	2348.3	36.914	0.124
K16-416	398.41	NULL	NULL	NULL	1548.99	0.0155	1957.87	21.154	0.0318	2219.38	30.897	0.127	2252.17	19.017	0.151	2343.27	36.307	0.155
K16-416	401.54	NULL	NULL	NULL	1551.81	0.0113	1958.42	20.59	0.0278	2219.96	30.621	0.122	2252.21	17.882	0.145	2345.91	36.282	0.151
K16-416	403.96	NULL	NULL	NULL	1553.96	0.0266	1959.57	17.729	0.0525	NULL	NULL	NULL	2253.16	19.205	0.213	2343.85	35.631	0.212

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-416	406.12	NULL	NULL	NULL	1553.87	0.026	NULL	NULL	NULL	NULL	NULL	NULL	2253.63	18.449	0.214	2344.33	36.863	0.211
K16-416	409.37	NULL	NULL	NULL	1544.49	0.0266	1956.57	23.398	0.0447	NULL	NULL	NULL	2253.62	20.517	0.156	2339.13	35.99	0.19
K16-416	412.37	NULL	NULL	NULL	1553.34	0.0249	NULL	NULL	NULL	NULL	NULL	NULL	2252.61	18.036	0.217	2345.21	35.787	0.208
K16-416	0	NULL	NULL	NULL	1554.79	0.0235	1956.94	19.103	0.052	NULL	NULL	NULL	2253.8	18.496	0.233	2343.77	36.225	0.223
K16-416	0	NULL	NULL	NULL	1554.88	0.0229	NULL	NULL	NULL	2225.83	30.183	0.126	2253.47	18.142	0.226	2343.13	36.589	0.216
K16-416	415.81	NULL	NULL	NULL	1552.48	0.0207	NULL	NULL	NULL	2226.68	29.1	0.113	2253.47	18.894	0.228	2346.45	36.265	0.223
K16-416	418.43	NULL	NULL	NULL	1554.3	0.0148	NULL	NULL	NULL	2221.65	30.493	0.1	2253.61	17.949	0.174	2345.74	36.853	0.174
K16-416	421.74	1473.74	12.343	0.00239	1548.93	0.00805	1958.18	20.717	0.0238	2220.93	29.623	0.0743	2253.89	17.936	0.132	2342	36.789	0.14
K16-416	424.75	1470.37	9.735	0.00305	1550.71	0.00567	1956.15	25.471	0.0171	2218.71	29.795	0.0549	2253.15	15.293	0.0828	2347.68	38.886	0.0876
K16-416	427.31	NULL	NULL	NULL	1553.07	0.000263	1957.14	34.928	0.00286	NULL	NULL	NULL	2258.9	16.007	0.00221	2354.83	31.378	0.0115
K16-416	430.42	NULL	NULL	NULL	1539.49	0.000453	NULL	NULL	NULL	NULL	NULL	NULL	2263.06	12.992	0.000467	2346.25	38.366	0.00639
K16-416	433.35	1497.29	16.027	0.0162	1567.24	0.0321	NULL	NULL	NULL	2223.84	31.008	0.118	2252.05	19.19	0.153	2333.17	37.919	0.133
K16-416	439.62	NULL	NULL	NULL	1568.2	0.0456	1907.97	27.769	0.124	2208.27	19.175	0.284	2252.38	19.211	0.207	2355.64	41.797	0.174
K16-416	444.16	NULL	NULL	NULL	1554.65	0.000344	1908.54	31.541	0.0972	2207.83	26.847	0.38	NULL	NULL	NULL	2328.27	39.766	0.106
K16-416	446.1	1497.41	19.385	0.00635	NULL	NULL	NULL	NULL	NULL	2214.73	31.065	0.303	NULL	NULL	NULL	2357.8	41.377	0.137
K16-416	448.38	NULL	NULL	NULL	NULL	NULL	1910.62	34.862	0.174	2207.57	30.607	0.492	2242.54	20.724	0.0887	2325.34	34.255	0.145
K16-416	451.64	NULL	NULL	NULL	1556.98	0.000225	1910.66	33.06	0.212	2207.51	25.539	0.32	NULL	NULL	NULL	2325.78	35.071	0.0911
K16-416	455.19	NULL	NULL	NULL	NULL	NULL	1910.24	34.184	0.248	2207.31	28.024	0.346	2251.76	21.236	0.0503	2326.07	35.388	0.0939
K16-416	455.75	NULL	NULL	NULL	NULL	NULL	1911.02	35.639	0.203	2207.39	31.643	0.479	2255.59	20.197	0.107	2325.38	29.659	0.135
K16-416	458.37	1496.64	11.51	0.0018	1566.42	0.0148	1902.55	27.636	0.0616	2214.26	31.602	0.43	NULL	NULL	NULL	2355.83	39.777	0.225
K16-416	461.75	NULL	NULL	NULL	NULL	NULL	1908.75	34.711	0.0713	2207.01	28.912	0.284	2256.32	17.855	0.0847	2328.87	34.241	0.123
K16-416	463.09	1497.15	11.592	0.0019	1565.49	0.0218	1902.79	25.352	0.0661	2207.52	17.848	0.14	2254.25	17.691	0.177	2357.41	41.281	0.132
K16-416	464.31	NULL	NULL	NULL	1563.22	0.0177	1904.73	29.119	0.0641	2209.58	28.803	0.269	NULL	NULL	NULL	2332.76	40.347	0.147
K16-416	465.43	NULL	NULL	NULL	1565.71	0.00879	1909.4	31.089	0.149	2207.43	26.67	0.35	2252.74	18.444	0.133	2328.92	41.423	0.127
K16-416	468.32	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2182.51	30.39	0.116	NULL	NULL	NULL	2328.64	36.301	0.0588
K16-416	470.38	1470.45	13.931	0.000736	NULL	NULL	1900.46	30.343	0.000812	NULL	NULL	NULL	2241.19	14.303	0.000957	2358.48	34.111	0.00639
K16-416	0	NULL	NULL	NULL	NULL	NULL	1930.29	45.281	0.306	2181.6	22.188	0.0038	NULL	NULL	NULL	2336.42	33.002	0.101
K16-416	0	NULL	NULL	NULL	1552.57	0.021	1909.08	26.564	0.0301	2210.65	31.372	0.259	2242.03	19.603	0.147	2342.14	40.016	0.169
K16-416	472.05	1498.28	24.497	0.00542	1568.21	0.00903	1906.75	30.55	0.0273	2210.18	27.198	0.047	2248.37	17.626	0.0389	2324.15	28.183	0.0265
K16-416	473.16	1498.08	18.374	0.0214	1567.34	0.0263	1922.89	35.978	0.038	2216.87	27.648	0.0522	2243.01	12.847	0.0488	2336.45	33.081	0.0383
K16-416	474.23	NULL	NULL	NULL	1553.9	0.0265	NULL	NULL	NULL	2218.46	30.823	0.154	2250.73	18.9	0.168	2344.76	39.16	0.173
K16-416	477.62	1496.41	14.79	0.0142	1551.31	0.0134	NULL	NULL	NULL	2224.33	32.445	0.0428	2265.53	12.763	0.049	2333.15	35.068	0.0952
K16-416	480.81	1497.88	18.357	0.0127	1562.58	0.016	1910.33	35.636	0.0351	2218.01	29.44	0.0548	2247.21	16.15	0.0517	2353.5	28.954	0.0342
K16-416	483.44	1497.15	20.356	0.0271	1566.21	0.0376	1900.3	25.103	0.0791	2223.81	25.834	0.111	2244.45	14.146	0.109	2323.46	33.128	0.0912
K16-416	485.48	1497.28	15.415	0.0238	1566.6	0.0315	1904.21	32.56	0.0668	2217.48	27.539	0.0899	2249.97	15.071	0.0909	2337.76	29.01	0.0782
K16-416	488.86	NULL	NULL	NULL	1555.43	0.0039	1915.5	34.607	0.00691	2227.21	27.249	0.0205	2251	20.249	0.0321	2334.02	31.024	0.0665
K16-416	490.25	1497.11	18.984	0.0124	NULL	NULL	1903.52	33.853	0.0259	2221.93	31.863	0.0524	2246.65	18.382	0.0553	2331.85	31.72	0.0608

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-416	492.9	1497.84	23.323	0.00814	1551.51	0.0117	NULL	NULL	NULL	2215.27	29.606	0.0546	2248.92	17.906	0.0531	2357.09	37.778	0.0355
K16-416	495.65	NULL	NULL	NULL	1537.22	0.00234	1913.74	34.476	0.139	2208.15	27.922	0.0854	2246.18	16.382	0.0658	2337.06	35.748	0.181
K16-416	497.5	NULL	NULL	NULL	1553.76	0.0126	NULL	NULL	NULL	2218.79	31.351	0.171	2250.67	19.534	0.167	2343.08	38.377	0.184
K16-416	504.08	1473.68	14.96	0.000683	1558.4	0.0038	1914.27	31.208	0.00675	2218.45	30.181	0.158	NULL	NULL	NULL	2346.55	39.767	0.107
K16-416	506.15	NULL	NULL	NULL	1562.63	0.00665	1908.68	30.353	0.00534	NULL	NULL	NULL	2255.59	18.642	0.0943	2345.27	37.691	0.0901
K16-416	509.96	NULL	NULL	NULL	1556.09	0.00921	NULL	NULL	NULL	2229.8	30.431	0.0423	2258.7	20.537	0.101	NULL	NULL	NULL
K16-416	511.91	NULL	NULL	NULL	1552.71	0.000673	1935.51	24.007	0.0113	2207.56	25.728	0.272	2243.66	16.501	0.283	2356.84	22.164	0.239
K16-416	513.95	NULL	NULL	NULL	NULL	NULL	1926.63	42.613	0.077	2214.78	30.269	0.0254	NULL	NULL	NULL	2335.35	37.039	0.209
K16-416	516.26	NULL	NULL	NULL	NULL	NULL	1929.14	43.214	0.128	2207.35	24.959	0.142	2244.16	16.645	0.151	2357.03	22.941	0.114
K16-416	518.5	NULL	NULL	NULL	NULL	NULL	1908.95	30.798	0.0841	2215.75	34.303	0.272	NULL	NULL	NULL	2346.83	39.441	0.161
K16-416	520.95	1492.63	10.541	0.000561	1550.66	0.0012	1909.89	31.884	0.0217	2219.8	30.079	0.179	2246.32	19.919	0.141	2343.04	42.721	0.192
K16-416	523.21	1499.8	13.864	0.0252	1565.05	0.0327	1917.23	32.628	0.0608	2217.43	19.145	0.074	2241.13	15.787	0.0612	2315.87	32.619	0.0482
K16-416	525.38	1499.85	14.248	0.0243	1566.24	0.031	1902.26	25.614	0.0596	2204.28	24.165	0.0744	2247.29	12.322	0.0717	2328.4	26.232	0.0568
K16-416	527.7	1481.92	14	0.00149	1552.56	0.00216	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2359.72	38.451	0.014
K16-416	529.83	NULL	NULL	NULL	1539.4	0.000398	1902.44	25.183	0.000646	NULL	NULL	NULL	2241.85	8.655	0.000735	2358.05	36.145	0.00613
K16-416	533.81	NULL	NULL	NULL	1555.74	0.00764	1930.43	38.625	0.0637	2207.71	25.365	0.191	2243.95	16.568	0.193	2359.23	21.994	0.149
K16-416	536.77	1498.1	16.465	0.00945	1567.36	0.0124	1907.76	33.137	0.028	2217.22	26.168	0.0557	2243.41	20.686	0.041	2321.66	42.956	0.0278
K16-416	539.15	NULL	NULL	NULL	1555.81	0.0171	NULL	NULL	NULL	NULL	NULL	NULL	2256.64	20.348	0.216	2351.85	36.056	0.196
K16-416	542.55	NULL	NULL	NULL	1557.04	0.0126	1907.5	24.581	0.00879	2217.82	32.676	0.247	NULL	NULL	NULL	2347.78	38.938	0.169
K16-416	545.73	1499.69	18.706	0.00652	NULL	NULL	1905.85	32.405	0.0219	2221.83	30.278	0.0518	2240.66	17.937	0.0419	2336.15	37.243	0.0371
K16-416	550.19	1493.21	16.815	0.0185	1567.3	0.0263	1912.7	29.363	0.0658	2217.22	26.541	0.0924	2243.04	36.562	0.0815	2300.2	33.6	0.0686
K16-416	553.32	NULL	NULL	NULL	1553.58	0.00759	1908.26	27.503	0.00503	2219.61	30.515	0.272	NULL	NULL	NULL	2350.8	38.808	0.175
K16-416	555.59	NULL	NULL	NULL	1551.86	0.0172	NULL	NULL	NULL	2219.32	31.039	0.222	2246.26	20.156	0.15	2344.07	38.986	0.172
K16-416	559.94	1473.27	16.043	0.00505	1564.57	0.0115	1908.23	28.802	0.0211	NULL	NULL	NULL	2253.43	18.498	0.112	2342.26	38.949	0.112
K16-416	563.16	1478.46	13.544	0.000579	NULL	NULL	1900.74	28.601	0.00788	NULL	NULL	NULL	2243.42	17.924	0.016	2332.17	37.876	0.0136
K16-416	656.66	NULL	NULL	NULL	1541.99	0.00035	1902.06	24.802	0.000756	NULL	NULL	NULL	2244.81	12.402	0.00106	2354.59	37.997	0.00635
K16-416	567.9	1496.79	19.94	0.0363	NULL	NULL	NULL	NULL	NULL	2213.98	28.359	0.12	2241.55	19.584	0.106	2332.96	36.883	0.0588
K16-416	571.3	NULL	NULL	NULL	1568.59	0.0448	1903.75	31.472	0.0741	2220.94	23.67	0.125	2244.83	16.471	0.115	2327.19	35.282	0.0679
K16-416	575.05	1498.5	13.991	0.0017	1567.37	0.00903	NULL	NULL	NULL	2217.9	30.723	0.235	NULL	NULL	NULL	2355.76	41.045	0.125
K16-416	576.88	NULL	NULL	NULL	1566.51	0.0251	1903.21	29.171	0.037	NULL	NULL	NULL	2252.9	17.527	0.12	2334.05	39.91	0.122
K16-416	579.21	1496.89	17.204	0.0348	NULL	NULL	1903.42	30.286	0.0886	2217.54	27.1	0.13	2241.82	17.767	0.114	2331.08	40.073	0.0593
K16-416	581.57	NULL	NULL	NULL	1566.21	0.0352	1900.53	30.587	0.0751	2217.97	31.45	0.13	2241.94	19.09	0.113	2358.18	40.002	0.0624
K16-416	584.33	NULL	NULL	NULL	1566.96	0.0346	NULL	NULL	NULL	2211.56	32.633	0.112	2242.04	17.864	0.103	2328.49	36.19	0.0667
K16-416	587.88	NULL	NULL	NULL	1560.33	0.0263	1903.26	26.322	0.0346	2220.33	29.064	0.137	2249.73	20.038	0.145	2333.65	36.616	0.13
K16-416	591.11	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2256.16	19.687	0.239	2356.93	38.808	0.197
K16-416	592.36	NULL	NULL	NULL	1568.04	0.0196	1900.29	27.795	0.0352	NULL	NULL	NULL	2249.82	18.692	0.102	2332.83	34.051	0.136
K16-416	595.45	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2211.18	33.435	0.118	2241.65	18.613	0.106	2326.74	33.974	0.0552

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-416	599.06	NULL	NULL	NULL	1558.78	0.05	NULL	NULL	NULL	2220.78	30.893	0.201	2249.33	19.632	0.21	2335.74	38.358	0.197
K16-416	601.16	NULL	NULL	NULL	1558.87	0.0247	NULL	NULL	NULL	NULL	NULL	NULL	2252.24	18.804	0.158	2334.16	38.814	0.14
K16-416	604.32	NULL	NULL	NULL	1566.92	0.0451	NULL	NULL	NULL	2214.67	28.56	0.124	NULL	NULL	NULL	2330.19	33.759	0.0707
K16-416	606.65	NULL	NULL	NULL	1567.95	0.02	NULL	NULL	NULL	2221.05	29.299	0.104	2244.83	21.075	0.103	2331.5	36.878	0.0618
K16-416	610.04	NULL	NULL	NULL	1567.73	0.0297	1902.96	30.381	0.0527	2220.1	30.611	0.111	2247.93	19.116	0.102	2326.78	39.408	0.0637
K16-416	612.36	NULL	NULL	NULL	1564.76	0.0267	NULL	NULL	NULL	NULL	NULL	NULL	2252.24	17.849	0.201	2336.16	40.051	0.176
K16-416	0	NULL	NULL	NULL	1567.68	0.0296	NULL	NULL	NULL	2217.14	30.753	0.127	2244.74	18.703	0.116	2331.79	38.784	0.0695
K16-416	0	1496.97	17.756	0.019	1566.89	0.0317	NULL	NULL	NULL	2217.64	29.237	0.124	NULL	NULL	NULL	2333.11	37.564	0.0609
K16-416	614.68	1498.11	16.871	0.0204	NULL	NULL	NULL	NULL	NULL	2215.27	31.487	0.124	2241.46	18.789	0.112	2327.83	36.243	0.0639
K16-416	616.15	1496.89	17.558	0.00169	1566.75	0.0129	1902.25	27.88	0.0362	NULL	NULL	NULL	2256.98	19.473	0.145	2358.85	36.321	0.124
K16-416	617.19	NULL	NULL	NULL	1568.99	0.0142	NULL	NULL	NULL	2227.04	26.359	0.0855	2254.52	18.905	0.109	2332.46	39.839	0.0697
K16-416	618.35	NULL	NULL	NULL	1566.9	0.0329	NULL	NULL	NULL	2221.25	30.836	0.159	2252.55	18.844	0.206	2334.47	41.006	0.175
K16-416	620.35	1497.99	14.608	0.00571	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2252.09	19.447	0.101	2333.11	36.698	0.0844
K16-416	622.59	1498.39	16.908	0.0261	1566.22	0.0384	1900.3	29.068	0.0659	2208.33	32.993	0.103	2248.41	21.33	0.0997	2331.14	36.24	0.065
K16-416	627.89	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2228.42	27.131	0.0857	2252.05	19.122	0.109	2333.89	38.21	0.0881
K16-416	631.24	NULL	NULL	NULL	1568.49	0.012	NULL	NULL	NULL	NULL	NULL	NULL	2255.17	18.299	0.124	2359.85	40.279	0.0935
K16-416	634.37	1499.88	15.564	0.0262	1568.75	0.0386	1903.57	29.535	0.0612	2221.67	26.4	0.134	2241.24	15.216	0.117	2330.16	36.364	0.0672
K16-416	636.19	NULL	NULL	NULL	1565.69	0.0305	NULL	NULL	NULL	2217.49	33.382	0.111	2250.43	18.656	0.101	2327.05	36.494	0.0568
K16-416	639.9	NULL	NULL	NULL	1560.05	0.0526	NULL	NULL	NULL	NULL	NULL	NULL	2252.12	17.722	0.264	2334.94	37.294	0.23
K16-416	641.04	NULL	NULL	NULL	1567.07	0.0283	NULL	NULL	NULL	2218.26	28.931	0.114	2245.54	19.805	0.107	2327.08	37.707	0.0615
K16-416	643.46	1499.66	13.964	0.0085	1563.05	0.0184	1901.08	27.715	0.0425	2218.33	29.479	0.0949	2247.06	20.748	0.101	2335.19	37.792	0.0638
K16-416	646.08	1499.1	12.962	0.00586	1566.35	0.014	NULL	NULL	NULL	2217.15	30.737	0.123	2244.18	19.533	0.109	2334.54	39.892	0.0765
K16-416	649.15	NULL	NULL	NULL	1567.23	0.0212	NULL	NULL	NULL	NULL	NULL	NULL	2253.87	18.336	0.21	2336.41	41.168	0.177
K16-416	652.39	NULL	NULL	NULL	1568.67	0.0102	1904.59	29.757	0.0452	2218.49	31.808	0.335	NULL	NULL	NULL	2355.22	39.433	0.207
K16-416	655.55	NULL	NULL	NULL	1566.69	0.0211	NULL	NULL	NULL	NULL	NULL	NULL	2256.31	19.603	0.15	2358.1	38.889	0.133
K16-416	659.08	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2255.27	19.09	0.137	2357.99	41.084	0.114
K16-416	662.44	NULL	NULL	NULL	1564.15	0.0335	1907.27	25.889	0.0691	NULL	NULL	NULL	2253.86	18.747	0.211	2334.39	41.23	0.173
K16-416	665.87	1497.83	16.524	0.0361	NULL	NULL	NULL	NULL	NULL	2207.99	24.38	0.127	NULL	NULL	NULL	2322.88	33.986	0.0699
K16-416	669.39	NULL	NULL	NULL	1563.02	0.017	1907.73	31.035	0.0434	2218.55	31.577	0.226	2247.24	20.791	0.158	2338.43	41.723	0.156
K16-416	680.52	1498.24	17.583	0.0255	1566.28	0.0393	1902	26.701	0.0838	2215.68	28.137	0.125	2244.1	16.936	0.126	2329.95	30.242	0.0825
K16-416	683.71	NULL	NULL	NULL	1566.21	0.0198	1906.11	27.715	0.0352	2220.89	30.603	0.217	2247.08	20.575	0.186	2333.61	41.217	0.165
K16-416	687.08	1472.76	17.696	0.000225	1541.24	0.000294	NULL	NULL	NULL	NULL	NULL	NULL	2253.94	18.582	0.0015	NULL	NULL	NULL
K16-416	689.43	NULL	NULL	NULL	1539.45	0.000384	1901.56	30.775	0.00123	NULL	NULL	NULL	2247.92	14.561	0.000782	2357.89	31.288	0.00776
K16-416	691.26	1498.89	15.569	0.0364	1567.32	0.0455	1904.07	28.351	0.0773	2216.8	14.692	0.0984	2259.09	15.161	0.0957	NULL	NULL	NULL
K16-416	697.23	NULL	NULL	NULL	1554.87	0.00936	1907.85	24.619	0.0144	2221.54	29.634	0.218	2248.74	19.589	0.225	2337.44	40.702	0.25
K16-416	699.64	1480.01	14.985	0.000739	1550.7	0.00106	1900.7	33.669	0.0135	2207.74	31.644	0.0554	2244.72	16.064	0.0622	2356.23	34.314	0.0539
K16-416	702.77	NULL	NULL	NULL	1557.02	0.00173	1910.6	32.721	0.022	2218.74	31.591	0.214	2241.77	18.709	0.136	2342.4	40.979	0.18

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-416	706.18	NULL	NULL	NULL	NULL	NULL	1911.22	31.339	0.228	2207.4	26.08	0.234	2246.53	19.303	0.0803	2340.15	41.024	0.143
K16-416	711.25	1473.96	11.429	0.00202	1548.32	0.000506	1909.66	29.561	0.0493	2207.83	22.107	0.137	2247.36	14.696	0.0211	2327.23	38.264	0.0411
K16-416	719.18	1497.98	19.359	0.0221	NULL	NULL	1908.11	37.639	0.0465	2223.44	29.513	0.0597	2244.26	15.29	0.0543	2327.74	32.4	0.0394
K16-416	722.2	NULL	NULL	NULL	NULL	NULL	1910.58	31.178	0.186	2207.87	30.908	0.26	NULL	NULL	NULL	2343.01	39.372	0.142
K16-416	725.68	NULL	NULL	NULL	1554.17	0.000358	1909.5	31.967	0.179	2209.64	31.04	0.349	NULL	NULL	NULL	2351.33	41.009	0.178
K16-416	727.67	1498.06	16.4	0.0143	1565.99	0.0191	1911.23	35.842	0.0394	2226.3	24.933	0.0609	2244.91	16.562	0.0572	2327.78	26.863	0.0444
K16-416	731.75	1497.85	15.636	0.0138	1566.95	0.0204	1903.81	36.23	0.0373	2213.1	31.395	0.0555	2242.84	14.49	0.0515	2328	33.273	0.0351
K16-416	738.17	1495.54	18.904	0.0213	1560.84	0.0275	1902.46	31.302	0.0473	2217.56	30.072	0.0621	2248.74	14.883	0.0562	2335.35	34.199	0.0444
K16-416	741.11	NULL	NULL	NULL	NULL	NULL	1914.72	34.706	0.000765	NULL	NULL	NULL	2242.15	18.436	0.000604	2355.91	32.03	0.00704
K16-416	743.7	NULL	NULL	NULL	NULL	NULL	1913.7	37.49	0.0518	2218.21	32.558	0.237	NULL	NULL	NULL	2345.56	40.409	0.151
K16-416	746.22	1471.76	13.269	0.00062	1552.73	0.00605	NULL	NULL	NULL	NULL	NULL	NULL	2253.95	16.912	0.114	2342.18	40.68	0.114
K16-416	747.88	1473.7	15.742	0.000596	1552.34	0.00159	1907.7	32.383	0.0197	2218.18	32.209	0.29	NULL	NULL	NULL	2351.22	38.942	0.19
K16-416	750.35	NULL	NULL	NULL	1565.45	0.00634	1909.79	28.557	0.0059	2217.67	31.591	0.203	NULL	NULL	NULL	2352.97	36.686	0.145
K16-416	751.5	1473.13	12.22	0.00559	1565.94	0.0158	NULL	NULL	NULL	2219.66	31.671	0.166	2253.31	18.169	0.18	2343.7	38.695	0.176
K16-416	754.07	NULL	NULL	NULL	1559.53	0.00984	1911.47	29.649	0.029	2218.7	31.329	0.054	2255.87	13.195	0.0456	2325.1	29.205	0.0379
K16-416	756.07	1473.21	22.492	0.000755	1566.9	0.00279	1900.89	39.958	0.0212	2210.93	27.865	0.057	2242.23	17	0.0568	2358.02	23.894	0.0538
K16-416	759.33	1495.85	17.468	0.0196	1564.07	0.0281	1957.43	28.383	0.0623	2223.3	24.648	0.105	2258.94	16.721	0.0967	2329.02	30.647	0.0869
K16-416	762.49	NULL	NULL	NULL	1549	0.00271	1907.94	32.384	0.0251	2220.35	28.765	0.0482	2253.05	17.879	0.0877	2357.94	36.419	0.0946
K16-416	764.73	NULL	NULL	NULL	1553.22	0.00297	1911.3	29.31	0.102	2216.57	32.553	0.167	2248.13	22.168	0.101	2353.47	37.657	0.124
K16-416	766.88	NULL	NULL	NULL	1554.48	0.006	NULL	NULL	NULL	NULL	NULL	NULL	2253.3	19.585	0.101	2339.01	37.69	0.0915
K16-416	770.11	NULL	NULL	NULL	1557.32	0.0058	1912.21	26.875	0.034	2217.75	31.552	0.0612	2253.86	21.526	0.061	2356.96	34.621	0.051
K16-416	772.61	1473.33	55.705	0.00152	1551.78	0.00642	1911.73	28.537	0.0176	2227.37	22.907	0.0463	2249.34	18.185	0.0583	2354.71	37.803	0.0502
K16-416	776.16	NULL	NULL	NULL	1552.21	0.00906	1912.26	24.708	0.0517	2220.15	30.857	0.107	2252.47	18.203	0.13	2342.06	38.716	0.139
K16-416	780.23	1471.13	14.609	0.000765	1542.23	0.000396	1903.51	37.255	0.00102	NULL	NULL	NULL	2242.53	28.709	0.000279	2357.13	34.03	0.00614
K16-416	782.94	NULL	NULL	NULL	1567.8	0.00252	1915.03	32.385	0.00992	2216.14	29.53	0.0587	NULL	NULL	NULL	2347.18	41.502	0.0288
K16-416	786.26	NULL	NULL	NULL	1540.4	0.00298	1901.95	33.374	0.0125	2220.49	29.022	0.0952	2242.66	18.884	0.0637	2349.65	37.24	0.0806
K16-416	789.47	NULL	NULL	NULL	1552.82	0.00377	1920.64	33.502	0.0175	2228.68	27.815	0.0263	2254.24	20.793	0.0424	2345.28	38.968	0.0316
K16-416	792.86	1472.91	14.088	0.00106	1548.62	0.00461	NULL	NULL	NULL	2220.14	29.018	0.0548	2250.3	18.718	0.0748	2346.49	37.547	0.0708
K16-416	795.48	1494.68	14.34	0.00404	1556.64	0.00606	1908.84	31.095	0.0171	2218.03	26.476	0.0586	2240.91	17.446	0.0411	2344.66	36.18	0.0387
K16-416	797.94	1473.54	19.022	0.000749	1563.64	0.00529	1907.2	33.731	0.0116	2219.14	31.65	0.178	NULL	NULL	NULL	2345.09	40.144	0.129
K16-416	800.89	NULL	NULL	NULL	1558.83	0.00386	1927.48	34.084	0.00854	2219.89	29.705	0.102	2242.01	17.532	0.0688	2350.37	35.636	0.0804
K16-416	804.04	1472.34	16.642	0.000861	1544.97	0.00157	1921.44	34.89	0.00996	2218.88	30.108	0.193	NULL	NULL	NULL	2351.21	37.589	0.126
K16-416	805.9	NULL	NULL	NULL	1554.88	0.0299	NULL	NULL	NULL	2226.65	27.203	0.108	2251.63	17.198	0.194	2340.63	37.543	0.181
K16-416	809.14	NULL	NULL	NULL	1545.85	0.0197	1909.32	22.522	0.0788	NULL	NULL	NULL	2253.03	20.171	0.138	2334.62	38.507	0.181
K16-416	813.55	NULL	NULL	NULL	1547.95	0.0226	1958.76	21.275	0.0405	2221.12	29.13	0.11	2251.18	18.247	0.149	2342.69	37.316	0.144
K16-416	815.55	NULL	NULL	NULL	1557.62	0.0144	1908.64	25.465	0.0888	2220.9	30.309	0.208	2247.68	19.899	0.166	2325.95	35.26	0.21
K16-416	819.35	NULL	NULL	NULL	1538.71	0.000458	1917.33	26.229	0.000678	NULL	NULL	NULL	NULL	NULL	NULL	2357.77	38.25	0.00636

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-416	822.18	NULL	NULL	NULL	1545.74	0.0365	1910.59	24.659	0.138	NULL	NULL	NULL	2254.54	19.763	0.221	2331.88	39.929	0.278
K16-416	825.73	1472.67	14.157	0.00147	1565.06	0.00559	1918.91	30.031	0.00539	2219.18	30.331	0.0775	2248.89	20.498	0.0712	2336.85	39.766	0.0785
K16-416	828.65	1472.24	14.61	0.00208	1549.29	0.00183	1912.75	35.591	0.0378	2216.07	34.458	0.261	2243.86	18.233	0.148	2354.87	39.902	0.158
K16-416	831	NULL	NULL	NULL	1565.18	0.0084	NULL	NULL	NULL	2217.05	32.391	0.187	2244	20.891	0.112	2353.58	37.214	0.134
K16-416	0	NULL	NULL	NULL	1547.6	0.00261	1915.36	33.161	0.0612	2217.39	33.053	0.273	NULL	NULL	NULL	2351.09	40.759	0.167
K16-417	11.9	1474.67	14.152	0.00669	1566.5	0.00732	1919.42	36.79	0.023	2220.53	31.442	0.115	2248.23	19.428	0.103	2333.69	42.196	0.113
K16-417	16.9	NULL	NULL	NULL	1537.06	0.0111	1908.51	30.764	0.251	2205.5	33.833	0.254	NULL	NULL	NULL	2344.28	39.704	0.167
K16-417	22	NULL	NULL	NULL	1537.49	0.000886	1912.13	32.971	0.0393	2220.34	30.669	0.295	NULL	NULL	NULL	2352.58	39.808	0.185
K16-417	26.9	NULL	NULL	NULL	1557.8	0.00723	NULL	NULL	NULL	2218.15	31.071	0.0677	2254.36	17.04	0.113	2339.6	38.624	0.132
K16-417	31.9	NULL	NULL	NULL	1557.74	0.00938	NULL	NULL	NULL	2219.54	30.848	0.15	2253.29	18.215	0.174	2345.44	38.037	0.175
K16-417	36.9	NULL	NULL	NULL	1539.08	0.000397	1915.6	32.019	0.00119	NULL	NULL	NULL	2241.59	18.829	0.000474	NULL	NULL	NULL
K16-417	41.8	NULL	NULL	NULL	1557.13	0.0334	NULL	NULL	NULL	2220.08	32.431	0.257	2250.41	20.34	0.225	2343.86	38.528	0.226
K16-417	46.9	NULL	NULL	NULL	1557.31	0.0387	1956.87	18.647	0.0624	2220.5	31.925	0.173	2250.33	19.045	0.187	2340.72	36.43	0.182
K16-417	51.9	NULL	NULL	NULL	1553.25	0.031	NULL	NULL	NULL	NULL	NULL	NULL	2252.86	19.106	0.233	2341.95	35.441	0.208
K16-417	56.9	NULL	NULL	NULL	1556.44	0.0184	NULL	NULL	NULL	2219.08	32.865	0.199	2252.49	19.401	0.193	2349.1	37.247	0.195
K16-417	62	1471.1	13.834	0.0124	1541.78	0.00933	1935.26	47.394	0.0421	2217.75	32.272	0.114	2246.8	20.973	0.077	2341.58	38.596	0.117
K16-417	66.9	1472.73	11.793	0.00517	1537.4	0.00417	1914.84	36.908	0.0224	2218.74	32.05	0.23	NULL	NULL	NULL	2346.18	39.373	0.149
K16-417	71.9	1475.59	15.393	0.0126	1540.15	0.0126	1923.72	42.279	0.0287	2218.43	31.159	0.197	NULL	NULL	NULL	2351.14	39.212	0.149
K16-417	76.9	NULL	NULL	NULL	1541.87	0.0139	1911.33	30.856	0.0391	NULL	NULL	NULL	2256.13	20.8	0.151	2338.7	41.582	0.156
K16-417	81.9	1470.35	18.027	0.011	1557.08	0.0139	1957.97	22.664	0.0204	NULL	NULL	NULL	2256.3	20.309	0.119	2340.97	38.84	0.141
K16-417	86.9	1472.81	17.052	0.0121	1556.86	0.0185	NULL	NULL	NULL	NULL	NULL	NULL	2258.25	20.919	0.204	2345.54	39.298	0.185
K16-417	91.9	NULL	NULL	NULL	1540.51	0.0162	1915.09	42.243	0.0489	2220.52	31.269	0.163	NULL	NULL	NULL	2350.97	39.715	0.121
K16-417	96.9	NULL	NULL	NULL	1543.23	0.00303	1913.3	33.955	0.0349	2219.77	33.234	0.308	NULL	NULL	NULL	2348.95	40.908	0.203
K16-417	101.9	1470.14	12.445	0.0118	1542.68	0.0103	1930.68	40.379	0.0199	2217.01	31.812	0.125	NULL	NULL	NULL	2346.13	38.262	0.0989
K16-417	106.9	NULL	NULL	NULL	1539.16	0.00509	1929.17	44.012	0.0406	2218.74	32.599	0.252	NULL	NULL	NULL	2345.85	39.888	0.168
K16-417	111.9	NULL	NULL	NULL	1539.16	0.000353	1903.51	29.539	0.00109	NULL	NULL	NULL	2241.9	13.942	0.000729	2355.74	34.096	0.00622
K16-417	116.9	NULL	NULL	NULL	1544.17	0.00175	1918.09	35.169	0.00774	2217.75	32.561	0.187	NULL	NULL	NULL	2344.59	39.393	0.11
K16-417	121.9	1496.7	16.998	0.0127	1564.73	0.0222	1956.38	19.646	0.0227	2220.3	31.5	0.173	2249.92	19.547	0.182	2339	39.764	0.182
K16-417	126.9	1499.53	11.439	0.000916	1542.91	0.00104	1924.1	29.709	0.00798	2217.98	29.932	0.128	NULL	NULL	NULL	2347.91	37.294	0.0823
K16-417	131.9	NULL	NULL	NULL	1552.63	0.00456	1956.59	19.559	0.0155	NULL	NULL	NULL	2252.79	18.382	0.099	2340.79	37.963	0.103
K16-417	136.9	NULL	NULL	NULL	1564	0.0255	NULL	NULL	NULL	NULL	NULL	NULL	2256.14	20.45	0.222	2347.74	37.783	0.208
K16-417	141.9	NULL	NULL	NULL	1554.15	0.00443	1957.97	24.811	0.0168	NULL	NULL	NULL	2257.56	19.472	0.0773	2340.23	38.339	0.0706
K16-417	146.9	NULL	NULL	NULL	1557.93	0.00521	1959.31	25.979	0.0162	NULL	NULL	NULL	2255.42	19.526	0.101	2346.15	38.502	0.098
K16-417	151.9	1473.9	11.991	0.012	1551.83	0.0203	1959.72	19.856	0.0332	NULL	NULL	NULL	2255.87	20.5	0.175	2345.33	36.974	0.19
K16-417	156.9	NULL	NULL	NULL	1559.44	0.0338	1956.73	18.327	0.0449	2224.07	29.201	0.161	2251.68	18.65	0.246	2336.83	38.917	0.225
K16-417	161.9	1473.5	14.195	0.00306	1550.98	0.00906	1955.31	21.548	0.0136	2218.52	31.088	0.163	2251.61	20.697	0.123	2348.74	37.321	0.16
K16-417	166.9	NULL	NULL	NULL	1541.23	0.0057	1908.22	25.113	0.032	NULL	NULL	NULL	2253.38	19.098	0.115	2321.41	40.832	0.157

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-417	171.9	1470.18	7.227	0.00081	1562	0.0051	1953.51	21.315	0.012	2219.31	29.429	0.108	2252.34	19.451	0.0988	2343.35	37.581	0.139
K16-417	176.9	1473.01	16.373	0.000787	NULL	NULL	1902.9	35.757	0.00101	NULL	NULL	NULL	2248.39	17.655	0.000606	2355.43	32.359	0.00752
K16-417	181.9	1493.67	15.407	0.004	NULL	NULL	1913.49	36.408	0.0153	2218.06	30.331	0.103	2240.83	17.357	0.0573	2356.63	39.236	0.0573
K16-417	186.9	1485.66	17.451	0.000825	1566.66	0.00245	1901.69	31.279	0.0226	2218.51	33.869	0.045	2246.05	19.309	0.0451	2323.91	27.589	0.0368
K16-417	191.9	1484.2	15.983	0.0163	1541.06	0.0153	1915.31	31.803	0.0158	NULL	NULL	NULL	NULL	NULL	NULL	2333.48	37.773	0.145
K16-417	196.9	1470.05	14.248	0.00106	1566.74	0.00256	1910.96	35.032	0.031	2221.17	31.45	0.0388	2245.06	18.76	0.0364	2328.87	36.958	0.0396
K16-417	201.9	1494.62	9.966	0.00056	1556.41	0.00125	1910.63	32.164	0.0236	2225.17	29.347	0.0178	2250.68	15.727	0.0388	2321.99	32.185	0.0908
K16-417	204.9	1495.95	17.09	0.00208	1567.96	0.00679	1903.53	30.858	0.013	2219.72	30.072	0.108	NULL	NULL	NULL	2344.89	39.399	0.0818
K16-417	207.9	NULL	NULL	NULL	1566.8	0.0353	NULL	NULL	NULL	NULL	NULL	NULL	2254.85	20.847	0.253	2340.94	38.531	0.245
K16-417	210.9	NULL	NULL	NULL	1556.43	0.0163	1900.54	27.991	0.0187	NULL	NULL	NULL	2255.46	20.076	0.138	2343.35	37.254	0.175
K16-417	213.9	NULL	NULL	NULL	1554.35	0.0192	NULL	NULL	NULL	NULL	NULL	NULL	2255.02	20.331	0.162	2338.48	37.926	0.156
K16-417	216.9	1473.36	15.165	0.000722	1543.51	0.000359	1901.28	39.766	0.00068	NULL	NULL	NULL	2242.19	25.359	0.000727	2356.53	34.261	0.00645
K16-417	219.9	NULL	NULL	NULL	1561	0.0244	NULL	NULL	NULL	NULL	NULL	NULL	2255.4	20.102	0.224	2342.46	38.553	0.233
K16-417	222.9	NULL	NULL	NULL	1558.42	0.039	1953.79	32.185	0.0152	2226.61	25.227	0.0863	2253.55	18.496	0.215	2341.6	41.579	0.318
K16-417	225.9	NULL	NULL	NULL	1557.42	0.0221	1907.83	26.348	0.0108	2221.44	29.996	0.184	2250.38	19.574	0.176	2340.6	41.592	0.259
K16-417	228.9	1474.63	13.346	0.00076	1561.7	0.0067	1903.61	30.177	0.00531	NULL	NULL	NULL	2250.95	18.636	0.0938	2323.51	31.436	0.119
K16-417	231.9	NULL	NULL	NULL	1558.08	0.0139	1905.46	27.553	0.0163	NULL	NULL	NULL	2255.71	20.028	0.162	2342.82	40.223	0.188
K16-417	234.9	1499.61	10.298	0.003	1548.81	0.0106	1906.9	24.957	0.0207	NULL	NULL	NULL	2256.81	20.272	0.153	2338.11	39.929	0.207
K16-417	237.9	NULL	NULL	NULL	1558.52	0.0212	1901.85	28.636	0.0172	NULL	NULL	NULL	2256.06	20.66	0.198	2338.71	39.817	0.244
K16-417	240.9	1476.85	9.921	0.000534	1568.31	0.00324	1906.01	26.979	0.0221	NULL	NULL	NULL	2256.19	19.766	0.083	2332.13	39.453	0.118
K16-417	243.8	1472.35	15.474	0.00143	1566.49	0.00189	1908.56	30.551	0.0949	2228.1	25.409	0.0346	2250.98	16.991	0.0908	2324.45	35.687	0.216
K16-417	246.9	NULL	NULL	NULL	1552.64	0.000823	1910.96	35.605	0.101	2221.85	26.114	0.109	2248.91	18.474	0.101	2324.64	34.287	0.211
K16-417	249.9	1472.04	20.135	0.000774	1560.41	0.00813	1905.65	27.786	0.0178	NULL	NULL	NULL	2256.16	20.165	0.164	2341.02	40.603	0.191
K16-417	252.9	NULL	NULL	NULL	1562.3	0.0192	1957.4	35.108	0.0317	NULL	NULL	NULL	2256.6	20.834	0.209	2340.19	40.726	0.215
K16-417	255.9	NULL	NULL	NULL	1559.71	0.0318	1909.98	28.093	0.0742	2222.03	30.209	0.165	2251.24	18.93	0.209	2337.9	39.462	0.2
K16-417	258.6	1472.76	11.792	0.00141	1546.93	0.00179	1909.33	28.653	0.0529	NULL	NULL	NULL	2251.15	16.761	0.0854	2321.8	34.343	0.167
K16-417	261.7	1475.41	12.99	0.0013	1558.75	0.00457	1905.7	30.408	0.0268	2226.38	26.144	0.0279	2252.17	16.888	0.0775	2338.19	37.291	0.0728
K16-417	264.9	NULL	NULL	NULL	1564.38	0.00891	NULL	NULL	NULL	NULL	NULL	NULL	2253.94	19.508	0.106	2337.23	41.597	0.0958
K16-417	267.9	1473.52	16.286	0.00541	1558.77	0.0153	1959.32	19.361	0.0221	NULL	NULL	NULL	2254.64	19.727	0.157	2339.17	38.513	0.155
K16-417	270.9	1471.95	13.838	0.00774	1559.9	0.0109	1915.88	36.284	0.0213	2219.04	32.558	0.31	NULL	NULL	NULL	2350.95	40.502	0.224
K16-417	273.9	NULL	NULL	NULL	1556.29	0.00711	1910.75	29.166	0.00854	NULL	NULL	NULL	2251.74	17.755	0.176	2340.58	40.663	0.206
K16-417	276.9	NULL	NULL	NULL	1539.77	0.00032	1941.58	23.747	0.00121	NULL	NULL	NULL	NULL	NULL	NULL	2357.61	41.221	0.0055
K16-417	279.9	NULL	NULL	NULL	1558.7	0.0267	NULL	NULL	NULL	2224.52	29.166	0.178	2251.42	18.506	0.28	2340.76	41.184	0.329
K16-417	282.9	NULL	NULL	NULL	1550.55	0.0226	1921.52	44.389	0.0398	2217.76	31.378	0.251	2243.54	21.432	0.149	2346.36	38.555	0.264
K16-417	285.9	NULL	NULL	NULL	1560.52	0.00754	1916.5	38.078	0.0341	2218.5	31.768	0.274	NULL	NULL	NULL	2347.68	40.051	0.211
K16-417	288.9	1499.94	10.461	0.00807	1559.33	0.017	1954.5	23.2	0.0258	NULL	NULL	NULL	2255.23	20.155	0.182	2335.13	39.655	0.237
K16-417	291.9	NULL	NULL	NULL	1559.4	0.0273	1959.83	17.117	0.0433	NULL	NULL	NULL	2255.43	20.576	0.266	2343.61	37.681	0.292

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K16-417	294.7	NULL	NULL	NULL	1551.49	0.02	NULL	NULL	NULL	NULL	NULL	NULL	2255.81	20.771	0.226	2346.49	40.021	0.235
K16-417	297.9	NULL	NULL	NULL	1557.36	0.0192	1956.16	19.603	0.0348	NULL	NULL	NULL	2255.54	20.748	0.209	2341.46	39.073	0.27
K16-417	300.9	NULL	NULL	NULL	1553.98	0.0225	1958.15	46.532	0.0198	NULL	NULL	NULL	2253.58	20.363	0.128	2340.96	36.599	0.28
K16-417	303.9	1493.95	15.952	0.000339	1545.43	0.000953	1911.11	34.472	0.0102	NULL	NULL	NULL	2250.32	14.27	0.058	2321.14	36.621	0.161
K16-417	306.9	1472.59	30.16	0.000202	1558.43	0.00302	1911.75	36.17	0.0249	2220.64	29.091	0.0868	2249.18	19.397	0.0927	2333.3	42.779	0.138
K16-417	311.9	1472.4	17.309	0.000133	1549.02	0.00174	1907.41	25.316	0.061	NULL	NULL	NULL	2253.69	20.148	0.101	2319.67	39.248	0.244
K16-417	316.9	NULL	NULL	NULL	1558.56	0.0243	1959.63	18.443	0.0364	NULL	NULL	NULL	2255.62	20.59	0.2	2341.91	37.881	0.277
K16-417	321.9	1473.08	12.906	0.00213	1550.52	0.00936	NULL	NULL	NULL	NULL	NULL	NULL	2255.34	20.383	0.18	2336.12	40.557	0.188
K16-417	326.9	NULL	NULL	NULL	1553	0.0692	1959.87	22.173	0.0984	2220.27	32.551	0.287	2248.24	18.63	0.298	2319.52	41.606	0.298
K16-417	331.9	NULL	NULL	NULL	1548.22	0.0128	1907.38	23.22	0.144	NULL	NULL	NULL	2250.79	18.257	0.171	2319.03	36.305	0.297
K16-417	335.9	NULL	NULL	NULL	1559.78	0.00191	1911.2	32.281	0.0198	2217.74	32.422	0.218	NULL	NULL	NULL	2347.44	40.546	0.143
K16-417	338.9	1478.55	19.138	0.0019	1544.97	0.000889	1909.09	29.388	0.0462	2218.82	31.362	0.221	NULL	NULL	NULL	2348.9	41.646	0.16
K16-417	341.9	1473.8	15.945	0.00533	1565.97	0.00195	1912.78	28.96	0.0543	2206.89	20.433	0.0488	2247.51	18.463	0.0377	2335.72	34.037	0.0383
K16-417	344.9	NULL	NULL	NULL	1556.01	0.0138	1910.67	23.918	0.0589	NULL	NULL	NULL	2251.46	17.676	0.194	2338.07	38.438	0.207
K16-417	347.9	NULL	NULL	NULL	1549.57	0.00361	1910.85	29.887	0.14	2211.79	33.359	0.173	2242.65	19.611	0.105	2344.16	40.288	0.122
K16-417	350.9	NULL	NULL	NULL	NULL	NULL	1909.86	29.987	0.112	2216.33	33.157	0.244	NULL	NULL	NULL	2353.35	40.296	0.147
K16-417	353.9	1472.88	13.085	0.000838	1551.56	0.000427	1902.79	25.617	0.000698	NULL	NULL	NULL	2246.43	13.209	0.000943	NULL	NULL	NULL
K16-417	356.9	NULL	NULL	NULL	NULL	NULL	1908.29	30.143	0.287	2208.6	35.073	0.347	NULL	NULL	NULL	2348.59	40.048	0.197
K16-417	359.9	NULL	NULL	NULL	1556.29	0.0207	1908.35	25.145	0.0724	NULL	NULL	NULL	2255.83	20.556	0.208	2340.68	40.666	0.241
K16-417	362.9	1472.65	16.994	0.00251	1567.09	0.00737	1912.78	28.161	0.0127	NULL	NULL	NULL	2254.4	19.061	0.142	2340.27	40.779	0.155
K16-417	365.9	1472.87	13.269	0.0205	1551.11	0.0249	1909.94	25.172	0.071	2224.16	30.552	0.126	2248.95	19.281	0.16	2335.82	37.148	0.155
K17-447	10.18	NULL	NULL	NULL	1567.96	0.0194	1959.67	35.346	0.0596	NULL	NULL	NULL	2255.31	20.691	0.191	2344.85	40.206	0.19
K17-447	11.41	NULL	NULL	NULL	1549.64	0.0199	1956.96	42.108	0.0412	2220.14	31.314	0.148	2248.33	19.614	0.137	2337.24	38.919	0.13
K17-447	11.85	NULL	NULL	NULL	1559.13	0.00333	1909.44	32.658	0.0481	2221.54	28.448	0.0541	2249.51	17.175	0.0985	2322.61	36.691	0.215
K17-447	15.96	NULL	NULL	NULL	1558.82	0.00798	1959.7	23.949	0.0157	NULL	NULL	NULL	2256.83	20.418	0.156	2339.86	41.008	0.188
K17-447	16	1472	10.858	0.001	1567.29	0.00324	1956.81	22.386	0.01	NULL	NULL	NULL	2257.55	19.976	0.121	2337.31	41.991	0.144
K17-447	20.98	1473.32	14.014	0.00168	1558.85	0.00661	1911.02	30.685	0.0124	NULL	NULL	NULL	2256.72	19.185	0.0875	2351.95	39.703	0.0856
K17-447	25.89	1497.85	20.524	0.0123	NULL	NULL	1959.54	19.449	0.0319	NULL	NULL	NULL	2256.64	20.633	0.202	2340.84	40.358	0.215
K17-447	26.43	1472.09	14.122	0.000459	NULL	NULL	1906.62	29.13	0.0415	NULL	NULL	NULL	2248.66	15.491	0.076	2320.69	33.468	0.174
K17-447	26.96	1471.2	12.953	0.0035	1565.98	0.00365	1910.31	27.448	0.0186	2219.37	29.283	0.0942	2240.25	15.993	0.0552	2356.39	38.612	0.0572
K17-447	28.98	1473.48	16.691	0.000725	NULL	NULL	1907.59	36.691	0.00118	NULL	NULL	NULL	2241.79	16.793	0.000567	2354.33	34.836	0.00654
K17-447	3211	NULL	NULL	NULL	1541.75	0.00898	1918.35	38.442	0.0335	2218.26	31.253	0.2	NULL	NULL	NULL	2351.25	39.224	0.122
K17-447	34.98	1471.96	14.488	0.00367	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2254.83	18.949	0.119	2336.98	40.966	0.112
K17-447	36.46	NULL	NULL	NULL	1562.54	0.0201	1957.05	24.488	0.0326	NULL	NULL	NULL	2252.72	17.943	0.228	2337.66	38.94	0.223
K17-447	38.11	1471.58	14.653	0.00996	1550.96	0.00995	1916.78	35.494	0.0342	2218.5	31.331	0.168	NULL	NULL	NULL	2351.27	40.097	0.117
K17-447	38.22	NULL	NULL	NULL	1557.22	0.0156	1909.12	30.758	0.213	2221.5	29.426	0.163	2249.01	19.652	0.217	2336.26	42.146	0.27
K17-447	24.2	NULL	NULL	NULL	1560.07	0.0125	1908.06	30.925	0.0446	NULL	NULL	NULL	2251.33	17.201	0.149	2328.96	39.206	0.274

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-447	44.2	NULL	NULL	NULL	1565.99	0.0091	1913.12	27.084	0.0195	2218.12	32.707	0.217	NULL	NULL	NULL	2352.32	39.562	0.159
K17-447	46.55	1495	13.098	0.00634	1564.28	0.00843	1912.91	31.61	0.0177	2218.51	32.662	0.214	2243.36	19.544	0.171	2340.79	42.469	0.197
K17-447	46.95	1473.91	20.248	0.00497	1557.77	0.0143	NULL	NULL	NULL	NULL	NULL	NULL	2254.56	19.868	0.158	2340.35	38.236	0.16
K17-447	47.16	1498.76	16.157	0.0196	1550.44	0.0217	1917.21	34.314	0.0225	NULL	NULL	NULL	2248.69	19.096	0.142	2332.14	39.411	0.173
K17-447	47.49	NULL	NULL	NULL	1561.64	0.0241	NULL	NULL	NULL	NULL	NULL	NULL	2256.92	20.469	0.231	2343.38	38.392	0.212
K17-447	48.79	NULL	NULL	NULL	1552.65	0.024	1909.63	24.133	0.145	2202.03	33.696	0.0913	2255.17	19.889	0.22	2340.26	39.186	0.218
K17-447	50.07	NULL	NULL	NULL	1550.17	0.0201	NULL	NULL	NULL	NULL	NULL	NULL	2256.76	20.778	0.21	2347.53	38.418	0.218
K17-447	50.1	1472.2	17.849	0.00793	1547.9	0.0123	1912.61	32.097	0.0423	2218.15	32.099	0.21	NULL	NULL	NULL	2345.05	40.535	0.157
K17-447	50.13	NULL	NULL	NULL	1564.46	0.0233	NULL	NULL	NULL	NULL	NULL	NULL	2253.04	18.821	0.251	2346.69	37.334	0.236
K17-447	50.21	1473.94	18.053	0.0203	1547.83	0.0266	1911.53	25.865	0.0828	NULL	NULL	NULL	2253.81	19.881	0.179	2337.7	35.654	0.208
K17-447	50.55	NULL	NULL	NULL	1543.78	0.006	1910.62	32.364	0.0372	2216.36	33.661	0.204	NULL	NULL	NULL	2346.51	41.643	0.123
K17-447	51.1	NULL	NULL	NULL	1558.2	0.0358	1959.88	31.809	0.069	NULL	NULL	NULL	2254.98	20.162	0.263	2343.09	37.194	0.243
K17-447	51.35	NULL	NULL	NULL	1556.14	0.0121	1959.85	29.433	0.0204	NULL	NULL	NULL	2255.79	19.425	0.113	2344.73	38.103	0.115
K17-447	53.02	NULL	NULL	NULL	1539.98	0.0136	1909.48	31.765	0.181	2213.27	35.097	0.284	NULL	NULL	NULL	2348.34	40.433	0.161
K17-447	53.06	NULL	NULL	NULL	1543.7	0.00515	1909.39	28.952	0.131	2211.44	35.169	0.301	NULL	NULL	NULL	2345.97	39.247	0.195
K17-447	55.98	1472.64	13.064	0.000803	1537.86	0.000428	1905.64	26.288	0.0011	NULL	NULL	NULL	NULL	NULL	NULL	2353.92	34.053	0.00611
K17-447	58.97	NULL	NULL	NULL	1540.35	0.0245	1909.43	30.244	0.19	2213.58	34.945	0.192	2247.22	20.1	0.165	2338.66	39.575	0.175
K17-447	61.95	NULL	NULL	NULL	1559.17	0.00317	1909.79	33.489	0.0455	2217.09	32.388	0.206	NULL	NULL	NULL	2351.56	39.577	0.119
K17-447	61.96	1476.61	10.501	0.00076	1568.42	0.00252	1916.34	34.854	0.0172	NULL	NULL	NULL	2251.57	18.316	0.127	2334.76	40.816	0.136
K17-447	65.98	NULL	NULL	NULL	1552.88	0.0346	1912.27	35.877	0.0478	NULL	NULL	NULL	2251.54	17.244	0.234	2335.29	39.194	0.228
K17-447	69.02	1473.43	16.253	0.00539	1562.69	0.00293	1913.51	38.685	0.0464	2218.06	31.371	0.201	NULL	NULL	NULL	2349.57	41.213	0.116
K17-447	73.95	NULL	NULL	NULL	1555.35	0.0424	1908.43	28.856	0.0597	2219.7	33.354	0.266	2251.96	19.101	0.314	2342.88	40.542	0.296
K17-447	78.98	NULL	NULL	NULL	1559.84	0.00508	1906.09	25.433	0.0403	NULL	NULL	NULL	2251.95	17.654	0.124	2323.76	31.092	0.148
K17-447	79	NULL	NULL	NULL	1558.19	0.0235	1907.64	24.564	0.12	NULL	NULL	NULL	2253.72	19.494	0.21	2334.75	36.355	0.209
K17-447	83.93	NULL	NULL	NULL	NULL	NULL	1912.11	34.101	0.167	2219.1	32.068	0.318	NULL	NULL	NULL	2347.66	42.26	0.238
K17-447	89	1470.39	10.016	0.000727	1537.55	0.00037	NULL	NULL	NULL	NULL	NULL	NULL	2240.96	13.669	0.000643	2358.27	31.088	0.00656
K17-447	89.01	1473.22	25	0.00708	1557.89	0.00708	1921.61	34.87	0.0222	2220.11	31.164	0.164	NULL	NULL	NULL	2346.33	38.417	0.114
K17-447	91.5	NULL	NULL	NULL	1537.24	0.00683	1911.38	31.59	0.136	2219.98	32.28	0.234	NULL	NULL	NULL	2340.41	42.66	0.18
K17-447	97.01	NULL	NULL	NULL	1549.54	0.0105	1914.76	28.214	0.0396	NULL	NULL	NULL	2251.7	17.574	0.2	2337.78	41.528	0.236
K17-447	97.03	1472.42	15.469	0.00938	1560.8	0.017	1910.22	29.662	0.0536	NULL	NULL	NULL	2253.81	20.076	0.193	2340.32	41.482	0.196
K17-447	98.835	NULL	NULL	NULL	NULL	NULL	1927.02	32.175	0.00113	NULL	NULL	NULL	2257.94	17.022	0.000642	2349.44	34.815	0.00638
K17-447	98.845	1497.82	13.72	0.00686	1560.46	0.0143	1907.2	26.677	0.0315	NULL	NULL	NULL	2254.61	19.45	0.162	2335.48	39.01	0.211
K17-447	98.9	NULL	NULL	NULL	1562.36	0.0277	NULL	NULL	NULL	2217.7	34.285	0.262	2250.48	20.34	0.232	2342.27	38.483	0.23
K17-447	104	NULL	NULL	NULL	1554.45	0.0325	NULL	NULL	NULL	2216.67	34.882	0.343	2249.72	20.454	0.285	2344.13	40.468	0.317
K17-447	109.515	1474.62	14.428	0.000546	1561.84	0.000815	1912.66	33.767	0.0123	2228.27	28.567	0.0734	2250.02	19.348	0.139	2334.93	40.92	0.179
K17-447	109.53	NULL	NULL	NULL	1563.71	0.0161	NULL	NULL	NULL	NULL	NULL	NULL	2251.73	17.993	0.182	2337.53	37.796	0.188
K17-447	109.59	1473.34	16.093	0.0116	1558.92	0.0119	1916.67	36.827	0.0434	2220.62	30.386	0.141	2244.01	18.881	0.121	2329.46	40.637	0.139

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-447	10976	NULL	NULL	NULL	1567.27	0.0233	1957.55	20.511	0.0236	NULL	NULL	NULL	2253.64	19.273	0.241	2338.27	40.262	0.257
K17-447	111.925	1472.68	17.223	0.000578	1555.02	0.00373	1913.89	35.203	0.0132	NULL	NULL	NULL	2252.27	17.291	0.121	2340.09	40.221	0.207
K17-447	111.965	NULL	NULL	NULL	1567.22	0.0108	1915.79	34.85	0.0146	NULL	NULL	NULL	2251.93	17.886	0.176	2335.95	40.376	0.24
K17-447	111.97	NULL	NULL	NULL	1568.45	0.00861	1912.06	31.77	0.0364	2216.74	34.194	0.227	NULL	NULL	NULL	2342.91	41.584	0.15
K17-447	112.04	1472.95	10.548	0.000974	1566.25	0.00264	1911.6	34.307	0.037	2218	32.616	0.19	2247	19.833	0.137	2338.06	42.517	0.181
K17-447	118.38	NULL	NULL	NULL	NULL	NULL	1913.55	36.643	0.177	2214.83	34.353	0.261	NULL	NULL	NULL	2343.95	40.112	0.157
K17-447	118.41	NULL	NULL	NULL	1566.94	0.00272	1909.82	34.885	0.0225	2219.08	32.453	0.239	2247.25	19.77	0.192	2341.73	43.357	0.226
K17-447	124.345	NULL	NULL	NULL	1543.86	0.00595	1917.06	33.547	0.0529	2217.08	34.26	0.28	NULL	NULL	NULL	2345.17	42.462	0.181
K17-447	124.53	NULL	NULL	NULL	1541.39	0.000475	1901.82	29.49	0.000569	2183.26	21.468	0.0103	2248.92	16.854	0.000528	2351.12	34.902	0.00663
K17-447	124.6	NULL	NULL	NULL	1545.5	0.0125	1914.02	32.669	0.062	2217.48	32.571	0.178	NULL	NULL	NULL	2342.35	42.649	0.144
K17-447	129.135	1471.83	15.194	0.000938	1567	0.00229	1914.73	32.504	0.02	2226.35	11.148	0.0172	2251.92	18.591	0.142	2336.15	39.502	0.166
K17-447	129.18	NULL	NULL	NULL	1549.17	0.0178	1916.41	24.766	0.0166	2218.88	32.857	0.113	2247.27	18.724	0.092	2336.04	38.027	0.126
K17-447	129.23	1473.45	17.96	0.00784	1548.17	0.00751	1914.77	34.235	0.0546	NULL	NULL	NULL	2248.13	16.115	0.0799	2325.29	35.599	0.162
K17-447	133.9	NULL	NULL	NULL	NULL	NULL	1913.81	37.563	0.123	2214.31	33.912	0.266	NULL	NULL	NULL	2346.15	39.572	0.16
K17-447	134.54	NULL	NULL	NULL	NULL	NULL	1912.74	34.314	0.0582	2217.4	33.418	0.196	NULL	NULL	NULL	2341.05	42.129	0.124
K17-447	134.95	NULL	NULL	NULL	NULL	NULL	1911.14	32.2	0.24	2212.16	34.966	0.261	NULL	NULL	NULL	2343.28	39.416	0.146
K17-447	139	NULL	NULL	NULL	NULL	NULL	1916.03	41.586	0.143	2200.86	31.687	0.0943	2243.1	13.612	0.0232	2331.53	36.389	0.0831
K17-447	139.1	NULL	NULL	NULL	1554.67	0.00201	1930.28	37.402	0.0103	2206.64	25.485	0.244	2244.3	16.428	0.242	NULL	NULL	NULL
K17-447	139.2	NULL	NULL	NULL	NULL	NULL	1943.91	25.899	0.000971	NULL	NULL	NULL	2242.18	16.939	0.000346	NULL	NULL	NULL
K17-447	144.01	NULL	NULL	NULL	1549.87	0.000584	1935.93	40.429	0.0277	2206.92	24.725	0.15	2244.22	15.769	0.145	2356.57	26.65	0.158
K17-447	144.02	NULL	NULL	NULL	NULL	NULL	1912.95	33.278	0.168	2217.06	33.009	0.296	NULL	NULL	NULL	2346.46	39.383	0.183
K17-447	144.11	1473.12	15.12	0.00183	1548.6	0.00116	1921.4	40.999	0.0166	2219.21	30.068	0.113	NULL	NULL	NULL	2342.65	40.98	0.0833
K17-447	148.9	NULL	NULL	NULL	1554.96	0.00166	1916.93	29.986	0.0298	2220.89	30.521	0.0687	2245.64	19.846	0.0744	2329.76	41.174	0.0935
K17-447	148.95	NULL	NULL	NULL	1557.81	0.0344	NULL	NULL	NULL	NULL	NULL	NULL	2254.75	20.993	0.216	2336.7	35.899	0.222
K17-447	148.97	NULL	NULL	NULL	1561.15	0.0454	NULL	NULL	NULL	NULL	NULL	NULL	2254.55	20.26	0.302	2347.65	36.219	0.287
K17-447	150.9	1497.6	24.356	0.0101	1556.31	0.0274	1911.89	32.093	0.0878	2226.44	26.551	0.119	2251.35	18.001	0.218	2337.47	42.921	0.367
K17-447	151	NULL	NULL	NULL	1540.72	0.00415	1911.22	32.465	0.199	2216.59	34.383	0.316	NULL	NULL	NULL	2351.85	39.316	0.203
K17-447	154.03	NULL	NULL	NULL	1553.2	0.0339	1958.26	31.114	0.083	2218.33	33.666	0.168	2252.24	17.91	0.234	2344.76	37.172	0.222
K17-447	156.94	NULL	NULL	NULL	1539.05	0.00461	1927.69	44.056	0.0547	2214.89	32.247	0.151	NULL	NULL	NULL	2347.36	38.12	0.0904
K17-447	157.1	NULL	NULL	NULL	1561.78	0.0129	1957.78	27.923	0.0289	2220.5	31.617	0.138	2251.04	18.309	0.203	2341.13	40.416	0.203
K17-447	157.6	NULL	NULL	NULL	1551.9	0.0217	1910.86	39.561	0.0556	2218.16	32.812	0.193	2248.36	19.607	0.18	2343.66	39.836	0.192
K17-447	158.03	NULL	NULL	NULL	1549.71	0.0232	NULL	NULL	NULL	2219.43	31.442	0.192	2247.09	19.459	0.152	2346.59	37.226	0.169
K17-447	163	NULL	NULL	NULL	1539.74	0.0108	1912.52	31.321	0.147	2217.12	32.872	0.229	NULL	NULL	NULL	2343.59	39.155	0.164
K17-447	168	NULL	NULL	NULL	NULL	NULL	1913.84	34.881	0.176	2214.19	34.517	0.292	NULL	NULL	NULL	2344.93	40.266	0.184
K17-447	172	NULL	NULL	NULL	1559.33	0.0112	1924.2	36.595	0.0265	2214.35	32.599	0.0628	NULL	NULL	NULL	2355.8	34.521	0.0326
K17-447	173.4	NULL	NULL	NULL	1552.52	0.00966	1919	46.36	0.0526	2216.82	34.187	0.157	2248.05	20.076	0.114	2342.34	38.545	0.123
K17-447	173.55	1472.07	13.772	0.000825	1556.77	0.00318	1938.48	33.866	0.0114	2215.74	31.383	0.109	2251.89	19.303	0.0895	2345.66	37.563	0.117

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-447	173.56	1470.53	11.148	0.00562	1549.81	0.01	1959.56	30.283	0.0178	2215.83	33.711	0.112	2254.32	17.202	0.109	2342.63	38.079	0.134
K17-447	173.6	1473.8	15.861	0.00468	1558.83	0.013	NULL	NULL	NULL	2216.84	34.418	0.11	2255.12	18.277	0.147	2343.91	37.022	0.143
K17-447	173.7	NULL	NULL	NULL	1541.82	0.000424	1919.77	22.642	0.00107	NULL	NULL	NULL	2242.74	21.507	0.000457	NULL	NULL	NULL
K17-447	173.75	NULL	NULL	NULL	NULL	NULL	1909.43	30.457	0.0389	2214.51	34.97	0.326	NULL	NULL	NULL	2348.78	40.15	0.193
K17-447	173.8	NULL	NULL	NULL	1555.09	0.000697	1909.04	30.276	0.0349	2216.31	33.884	0.266	NULL	NULL	NULL	2346.92	38.821	0.16
K17-447	173.81	1487.42	13.489	0.000649	1552.35	0.000873	1909.97	30.788	0.0162	2218.19	32.04	0.283	NULL	NULL	NULL	2353.6	38.207	0.185
K17-447	173.85	NULL	NULL	NULL	1553.28	0.000436	1910.52	32.464	0.0719	2216.34	33.166	0.247	NULL	NULL	NULL	2348.44	39.903	0.149
K17-447	173.92	1472.62	21.23	0.000216	1558.17	0.00078	1906.78	30.594	0.0164	2216.97	32.172	0.263	NULL	NULL	NULL	2349.42	37.589	0.184
K17-447	175	1471.59	30.952	0.000222	1566.68	0.000927	1955.09	28.471	0.00369	2216.72	31.109	0.0665	2253.23	20.047	0.0644	2341.98	37.594	0.0713
K17-447	176	NULL	NULL	NULL	1567.22	0.000505	1908.82	30.48	0.0552	2216.61	32.955	0.306	NULL	NULL	NULL	2347.69	38.928	0.187
K17-447	176.4	NULL	NULL	NULL	NULL	NULL	1908.66	30.738	0.231	2214.2	34.574	0.328	NULL	NULL	NULL	2346.94	39.184	0.19
K17-447	176.7	NULL	NULL	NULL	1558.84	0.00034	1908.22	30.731	0.191	2207.96	33.794	0.294	NULL	NULL	NULL	2345.38	38.188	0.171
K17-447	177	NULL	NULL	NULL	1557.48	0.00064	1910.78	32.535	0.0417	2209.69	30.185	0.27	NULL	NULL	NULL	2346.84	39.394	0.155
K17-447	181.7	1472.59	27.291	0.000802	1560.68	0.000788	1912.95	36.655	0.00731	2216.29	31.097	0.141	2249.48	20.939	0.0789	2353.04	37.815	0.0978
K17-447	186	NULL	NULL	NULL	1558.66	0.000925	1908.83	31.046	0.0374	2217.27	33.161	0.305	NULL	NULL	NULL	2351.32	39.333	0.182
K17-447	186.1	1470.6	10.334	0.000965	1556.65	0.00116	1907.49	31.756	0.0113	2215.07	32.763	0.187	NULL	NULL	NULL	2351.58	37.747	0.116
K17-447	187.5	1473.25	11.311	0.0011	1565.65	0.000526	1909.25	30.973	0.0453	2213.94	33.481	0.303	NULL	NULL	NULL	2352.15	38.406	0.174
K17-447	187.55	NULL	NULL	NULL	NULL	NULL	1910.14	30.609	0.0351	2213.06	34.212	0.309	NULL	NULL	NULL	2351.41	39.833	0.172
K17-447	187.6	NULL	NULL	NULL	1548.89	0.00249	1907.69	29.007	0.0261	2211.43	34.612	0.358	NULL	NULL	NULL	2352.17	38.929	0.212
K17-447	189	NULL	NULL	NULL	1557.67	0.000807	1953.81	35.51	0.00474	2213.45	33.131	0.17	NULL	NULL	NULL	2348.11	37.421	0.0906
K17-447	189.1	NULL	NULL	NULL	NULL	NULL	1906.81	29.463	0.0252	2214.01	34.25	0.335	NULL	NULL	NULL	2349.15	39.256	0.196
K17-447	191.2	NULL	NULL	NULL	NULL	NULL	1951.9	33.066	0.00711	2217.81	31.771	0.224	NULL	NULL	NULL	2340.64	41.051	0.142
K17-447	193.8	NULL	NULL	NULL	1557.84	0.00117	1909.12	26.888	0.0646	2210.55	32.768	0.256	NULL	NULL	NULL	2346.21	39.564	0.161
K17-447	198	1472.25	13.102	0.000772	NULL	NULL	1922.83	39.821	0.00115	NULL	NULL	NULL	2247.76	16.124	0.000774	2359.99	34.326	0.00598
K17-447	203.9	NULL	NULL	NULL	1542.55	0.000619	1912.86	27.209	0.00345	2217.83	31.193	0.241	NULL	NULL	NULL	2343.14	39.999	0.142
K17-447	204	NULL	NULL	NULL	NULL	NULL	1910.23	27.668	0.023	2212.62	34.971	0.325	NULL	NULL	NULL	2348.71	40.474	0.183
K17-447	208.9	NULL	NULL	NULL	NULL	NULL	1910.75	30.628	0.032	2213.57	34.856	0.39	NULL	NULL	NULL	2347.38	40.14	0.237
K17-447	209	NULL	NULL	NULL	NULL	NULL	1911.08	28.751	0.0192	2213.79	34.338	0.313	NULL	NULL	NULL	2347.31	40.488	0.182
K17-447	214	1472.54	17.038	0.0121	NULL	NULL	1921.73	28.33	0.0147	2213.25	32.916	0.166	NULL	NULL	NULL	2344.8	39.428	0.0854
K17-447	219.9	NULL	NULL	NULL	NULL	NULL	1911.85	31.341	0.0156	2212.71	34.837	0.314	NULL	NULL	NULL	2345.78	39.929	0.18
K17-447	220	1473.28	16.757	0.00756	1539.29	0.00286	1910.84	30.925	0.0149	2214.32	34.097	0.282	NULL	NULL	NULL	2346.45	39.738	0.168
K17-447	220.1	NULL	NULL	NULL	NULL	NULL	1908.12	30.654	0.0268	2213.86	34.569	0.347	NULL	NULL	NULL	2348.99	39.99	0.192
K17-447	223.7	NULL	NULL	NULL	NULL	NULL	1916.12	28.243	0.011	2214.17	33.457	0.251	NULL	NULL	NULL	2345.33	39.796	0.138
K17-447	225	NULL	NULL	NULL	1538.73	0.00834	1908.5	29.532	0.0183	2214.2	34.652	0.387	NULL	NULL	NULL	2350.26	39.994	0.223
K17-447	227.8	NULL	NULL	NULL	NULL	NULL	1911.78	27.867	0.00876	2214.28	33.992	0.34	NULL	NULL	NULL	2346.6	39.636	0.204
K17-447	227.86	NULL	NULL	NULL	1539.34	0.00693	1908.71	29.561	0.0179	2212.63	34.613	0.349	NULL	NULL	NULL	2348.81	39.552	0.198
K17-447	234.5	NULL	NULL	NULL	1543.75	0.000562	1912.52	34.297	0.0147	2212.03	34.859	0.285	NULL	NULL	NULL	2350.29	39.317	0.163

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-447	234.6	NULL	NULL	NULL	1539.04	0.00325	1910.93	31.395	0.00511	2211.45	33.977	0.28	NULL	NULL	NULL	2347.66	39.239	0.158
K17-447	234.6	NULL	NULL	NULL	NULL	NULL	1911.93	30.382	0.032	2214.41	34.626	0.349	NULL	NULL	NULL	2352.23	39.684	0.21
K17-447	237	NULL	NULL	NULL	1545.67	0.000806	1908.25	31.963	0.0188	2214.71	34.076	0.34	NULL	NULL	NULL	2349.63	38.767	0.2
K17-447	0	NULL	NULL	NULL	NULL	NULL	1903.67	29.753	0.000659	NULL	NULL	NULL	2241.38	16.872	0.000584	2357.1	37.814	0.00669
K17-447	241.9	NULL	NULL	NULL	1562.37	0.000714	1908.31	29.955	0.0201	2214.52	34.306	0.353	NULL	NULL	NULL	2355.66	39.858	0.195
K17-447	242	NULL	NULL	NULL	1543.91	0.00146	1909.99	33.219	0.123	2213.23	35.064	0.432	NULL	NULL	NULL	2354.27	40.796	0.251
K17-447	242.1	NULL	NULL	NULL	1553.77	0.00243	1909.2	31.039	0.0501	2213.02	35.434	0.392	NULL	NULL	NULL	2354.6	40.909	0.214
K17-447	246.9	1471.33	13.726	0.00097	NULL	NULL	1904.45	30.011	0.0244	2213.22	32.939	0.189	NULL	NULL	NULL	2336.62	41.138	0.0852
K17-447	247	1485.86	16.23	0.000706	1563.42	0.0013	1906.14	30.224	0.0205	2211.4	34.273	0.29	NULL	NULL	NULL	2354.69	38.948	0.152
K17-447	247.3	1472.97	16.926	0.00168	1542.79	0.000574	1916.12	30.228	0.0203	2211.78	33.178	0.206	NULL	NULL	NULL	2348.47	37.517	0.118
K17-447	251.9	NULL	NULL	NULL	1541.1	0.00152	1914.01	32.907	0.0207	2211.75	34.224	0.276	NULL	NULL	NULL	2348.37	39.136	0.166
K17-447	252	NULL	NULL	NULL	1541.69	0.00155	1910.85	31.159	0.027	2210.06	34.722	0.318	NULL	NULL	NULL	2350.41	38.871	0.187
K17-447	252.3	1471.53	9.737	0.000812	1540.25	0.00041	1904.47	35.521	0.00106	NULL	NULL	NULL	2245.26	12.339	0.000923	2356.53	34.218	0.0063
K17-447	256	1472.86	27.843	0.000218	1542.8	0.00145	1910.5	32.25	0.0178	2211.86	32.601	0.232	NULL	NULL	NULL	2348.86	37.694	0.13
K17-447	257	1472.82	11.65	0.000937	1542.58	0.00141	1907.39	28.03	0.00752	2212.24	31.668	0.15	NULL	NULL	NULL	2352.82	35.492	0.08
K17-447	259.36	1474.45	13.604	0.00185	1566.61	0.000556	1911.47	35.767	0.00358	2208.97	32.089	0.116	NULL	NULL	NULL	2343.03	40.997	0.0589
K17-447	260	1476.04	18.904	0.000932	1548.5	0.00253	1910.87	28.698	0.0127	2208.74	32.381	0.224	NULL	NULL	NULL	2353.66	36.903	0.122
K17-447	260	1472.15	27.277	0.00117	1543.05	0.000844	1937.76	27.009	0.00847	2210.4	31.844	0.11	NULL	NULL	NULL	2336.4	37.039	0.0565
K17-447	260	1473.45	14.04	0.000706	1544.42	0.000619	1908.84	29.165	0.0115	2209.03	31.622	0.177	2243.67	15.222	0.0408	2352.98	37.578	0.085
K17-447	265	NULL	NULL	NULL	1550.02	0.00606	1914.22	27.53	0.0109	2209.83	33.797	0.277	NULL	NULL	NULL	2349.35	39.784	0.151
K17-447	266	NULL	NULL	NULL	1544.76	0.0023	1911.4	26.316	0.00646	2208.8	33.477	0.263	NULL	NULL	NULL	2347.06	39.487	0.145
K17-447	267	1473.12	16.393	0.000783	1543.21	0.0036	1912.69	29.235	0.00704	2211.13	33.7	0.305	NULL	NULL	NULL	2347.39	38.871	0.178
K17-447	272	NULL	NULL	NULL	1543.89	0.00517	1902.17	28.356	0.00477	2209.63	33.716	0.249	NULL	NULL	NULL	2347.12	37.472	0.147
K17-447	272.1	1473.11	14.169	0.00128	1542.97	0.00429	1906.41	26.679	0.0138	2209.3	33.101	0.267	NULL	NULL	NULL	2349.89	37.707	0.163
K17-447	272.2	NULL	NULL	NULL	1544.2	0.0038	1902.04	31.1	0.00318	2209.03	32.751	0.213	NULL	NULL	NULL	2349.96	37.428	0.116
K17-447	277	NULL	NULL	NULL	1547.48	0.00623	1909.87	27.052	0.00917	2209.09	34.129	0.297	NULL	NULL	NULL	2349.19	40.023	0.167
K17-447	0	NULL	NULL	NULL	1545.46	0.00495	1917.35	29.162	0.00961	2211.23	33.731	0.283	NULL	NULL	NULL	2348.02	38.887	0.161
K17-447	281	1473.21	12.804	0.00208	1556.48	0.00946	1958.07	18.474	0.0323	NULL	NULL	NULL	2252.41	17.907	0.159	2342.84	34.558	0.154
K17-447	282	NULL	NULL	NULL	1545.94	0.00415	1907.53	26.207	0.00839	2215.35	33.582	0.282	NULL	NULL	NULL	2348.17	39.451	0.172
K17-447	285.6	NULL	NULL	NULL	1557.55	0.022	1958.75	19.591	0.0419	NULL	NULL	NULL	2254.23	19.777	0.197	2342.95	35.606	0.179
K17-447	286.3	NULL	NULL	NULL	1551.15	0.00455	1905.82	25.177	0.0122	2216.15	33.916	0.403	NULL	NULL	NULL	2349.84	38.819	0.257
K17-447	286.4	NULL	NULL	NULL	1559.75	0.019	1959.78	23.866	0.0561	NULL	NULL	NULL	2252.6	18.337	0.205	2342.58	34.917	0.193
K17-447	286.4	NULL	NULL	NULL	1544.38	0.000941	1909.36	29.871	0.0558	2217.62	31.783	0.285	NULL	NULL	NULL	2352.4	38.068	0.164
K17-447	286.4	1496.44	20.832	0.00739	1558.04	0.0178	1959.51	20.264	0.0261	NULL	NULL	NULL	2252.09	17.359	0.212	2337.52	39.192	0.222
K17-447	288.7	1499.12	9.244	0.00456	1557.46	0.0113	1956.24	28.681	0.0227	NULL	NULL	NULL	2250.88	17.17	0.156	2335.35	37.36	0.181
K17-447	288.8	NULL	NULL	NULL	1543.21	0.00105	1912.79	34.084	0.0264	2212.48	34.221	0.268	NULL	NULL	NULL	2348.95	38.155	0.159
K17-447	293.9	1470.37	5.633	0.000659	1551.17	0.00252	1907.39	32.859	0.0196	2215.41	32.812	0.291	NULL	NULL	NULL	2347.27	38.749	0.173

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-447	294	NULL	NULL	NULL	1549.52	0.00137	1948.85	37.513	0.0144	2212.56	32.415	0.0716	2255.21	17.828	0.0768	2347.68	36.797	0.0811
K17-447	294	NULL	NULL	NULL	1549.6	0.004	1909.99	35.677	0.0554	2213.98	34.668	0.339	NULL	NULL	NULL	2348.97	38.884	0.204
K17-447	296.8	NULL	NULL	NULL	1549.17	0.000484	1947.64	35.135	0.00944	2213.58	30.664	0.114	NULL	NULL	NULL	2338	41.639	0.0607
K17-447	296.9	NULL	NULL	NULL	NULL	NULL	1912.17	40.39	0.0807	2211.14	34.251	0.311	NULL	NULL	NULL	2349.51	39.967	0.172
K17-447	297	NULL	NULL	NULL	NULL	NULL	1910.09	34.708	0.14	2210.94	33.137	0.273	NULL	NULL	NULL	2346.85	39.375	0.15
K17-447	297.2	NULL	NULL	NULL	1568.73	0.00108	1937.35	38.406	0.0143	2211.42	31.871	0.133	NULL	NULL	NULL	2348.61	35.154	0.0706
K17-447	0	1474.8	14.784	0.00265	1543	0.00081	1941.08	41.317	0.0377	2209.61	29.15	0.141	NULL	NULL	NULL	2355.26	37.482	0.0579
K17-447	0	1471.45	18.667	0.00632	1538.76	0.00256	1941.58	34.415	0.0967	2210.89	32.388	0.151	NULL	NULL	NULL	2347.41	36.472	0.0709
K17-447	301	NULL	NULL	NULL	1540.48	0.0114	1911.01	34.694	0.182	2211.18	32.85	0.199	2242.87	18.664	0.103	2343.07	38.896	0.141
K17-447	304	1473.23	17.894	0.0237	NULL	NULL	1941.69	35.591	0.0835	2215.62	32.878	0.263	NULL	NULL	NULL	2345.75	38.765	0.14
K17-447	307	NULL	NULL	NULL	1539.16	0.00419	1933.14	45.724	0.127	2213.97	33.522	0.304	NULL	NULL	NULL	2349.08	39.146	0.179
K17-447	308.9	NULL	NULL	NULL	1548.64	0.000972	1920.3	36.646	0.0246	2216.39	32.388	0.251	NULL	NULL	NULL	2352.52	37.505	0.147
K17-447	309	NULL	NULL	NULL	1549.22	0.00167	1919.15	38.333	0.0332	2216.08	33.513	0.382	NULL	NULL	NULL	2350.17	38.824	0.23
K17-447	314.4	NULL	NULL	NULL	1550.36	0.00287	1909.72	34.684	0.178	2214.92	34.077	0.397	NULL	NULL	NULL	2349.62	39.274	0.248
K17-447	314.6	1471.56	18.255	0.00138	1549.99	0.000607	1925.07	41.074	0.038	2216.58	31.715	0.226	NULL	NULL	NULL	2350.13	36.772	0.127
K17-447	312	NULL	NULL	NULL	1541.79	0.00558	1911.17	35.552	0.0609	2214.59	34.169	0.327	NULL	NULL	NULL	2350.8	40.034	0.193
K17-447	326	NULL	NULL	NULL	1550.09	0.00195	1910.67	34.312	0.0721	2214.87	33.43	0.326	NULL	NULL	NULL	2347.88	38.89	0.19
K17-447	326.1	NULL	NULL	NULL	NULL	NULL	1911.66	38.471	0.266	2211.65	33.039	0.21	NULL	NULL	NULL	2346.79	36.882	0.114
K17-447	326.2	NULL	NULL	NULL	1549.31	0.00118	1910.63	36.673	0.0486	2213.88	33.746	0.271	NULL	NULL	NULL	2349.34	38.11	0.166
K17-447	331	1471.95	13.885	0.00217	1542.74	0.000776	1956.84	29.208	0.0154	2212.62	30.702	0.0676	2242.65	13.031	0.0279	2333.91	34.7	0.0424
K17-447	331.2	1471.77	15.963	0.00149	1541.44	0.000973	1941.22	43.993	0.0198	2210.07	31.886	0.153	NULL	NULL	NULL	2351.44	35.621	0.0765
K17-447	336	1484.03	13.197	0.000234	1550.37	0.00128	1939.74	35.705	0.028	2209.14	32.482	0.229	NULL	NULL	NULL	2344.85	37.265	0.123
K17-447	336	1473.27	17.938	0.00138	1548.93	0.00101	1937.89	43.76	0.0305	2204.97	31.427	0.218	NULL	NULL	NULL	2349.84	36.924	0.115
K17-447	340	1474.82	14.104	0.000359	1550.21	0.00119	1940.64	40.506	0.0245	2207.85	31.871	0.198	NULL	NULL	NULL	2348.61	35.59	0.102
K17-447	340.1	1474.94	19.247	0.00309	1538.65	0.00359	1941.93	41.322	0.0164	2205.95	30.295	0.12	NULL	NULL	NULL	2347.23	32.951	0.0561
K17-447	341	1473.05	12.492	0.00135	1548.37	0.00186	1913.69	34.667	0.0483	2209.34	32.572	0.245	NULL	NULL	NULL	2351.91	37.418	0.138
K17-447	341.2	NULL	NULL	NULL	1550.77	0.00556	1914.91	40.553	0.0964	2210.6	35.526	0.377	NULL	NULL	NULL	2344.47	40.51	0.234
K17-447	340.5	1472.88	16.784	0.0276	NULL	NULL	1930.39	46.202	0.0592	2213.79	32.049	0.0755	NULL	NULL	NULL	2334.6	37.957	0.081
K17-447	340.6	1471.83	17.867	0.000487	1543.22	0.00146	1934.42	46.423	0.0328	2211.32	32.478	0.17	NULL	NULL	NULL	2350.66	36.232	0.0949
K17-447	340.7	NULL	NULL	NULL	1548.38	0.00281	1925.66	40.192	0.0269	2214.2	34.414	0.302	NULL	NULL	NULL	2350.12	39.553	0.176
K17-447	346	NULL	NULL	NULL	1549.31	0.001	1929.67	42.129	0.049	2214.98	34.605	0.358	NULL	NULL	NULL	2348.96	40.178	0.221
K17-447	346	NULL	NULL	NULL	1539.51	0.00285	1929	43.268	0.0865	2220.12	31.162	0.293	NULL	NULL	NULL	2345.37	41.273	0.175
K17-447	346.1	1472.31	12.706	0.00119	1542.16	0.000809	1920.12	41.818	0.0214	2208.53	33.249	0.216	NULL	NULL	NULL	2349.95	36.803	0.116
K17-447	349	NULL	NULL	NULL	1538.13	0.00578	1911.05	36.982	0.155	2211.1	35.926	0.468	NULL	NULL	NULL	2348.47	39.942	0.299
K17-447	349	NULL	NULL	NULL	1558.6	0.000599	1910.14	30.706	0.00918	2218.19	31.532	0.286	NULL	NULL	NULL	2352.61	39.448	0.176
K17-447	349	NULL	NULL	NULL	1558.16	0.00093	1904.92	38.9	0.00597	2221.28	30.492	0.342	NULL	NULL	NULL	2347.5	40.206	0.219
K17-447	354	NULL	NULL	NULL	1545.34	0.00181	1913.31	34.271	0.0145	2212.94	33.814	0.293	NULL	NULL	NULL	2349.21	39.446	0.163

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-447	354	NULL	NULL	NULL	1547.77	0.00976	1914.4	26.125	0.0113	2212.61	33.86	0.236	NULL	NULL	NULL	2346.62	38.313	0.136
K17-447	354.1	1472.42	18.727	0.000288	1544.8	0.000987	1942.66	44.611	0.0112	2209.09	32.624	0.197	NULL	NULL	NULL	2344.87	38.721	0.0956
K17-447	0	1484	14.081	0.000556	1550.68	0.00118	1944.01	39.605	0.00701	2210.58	31.888	0.116	NULL	NULL	NULL	2342.46	39.46	0.0568
K17-447	0	NULL	NULL	NULL	1547.22	0.0189	1958.41	31.006	0.0251	2209.77	33.333	0.207	2247.44	19.876	0.0963	2344.57	37.535	0.136
K17-447	359	NULL	NULL	NULL	1547.07	0.00443	1910.17	32.684	0.0176	2210.63	33.333	0.36	NULL	NULL	NULL	2348.57	37.108	0.211
K17-447	359.05	NULL	NULL	NULL	1551.39	0.00115	1913.27	37.263	0.0176	2212.44	32.843	0.241	NULL	NULL	NULL	2349.97	37.938	0.138
K17-447	359.1	NULL	NULL	NULL	1539.37	0.00601	1928.17	49.28	0.0578	2215.62	33.899	0.274	2243.44	18.769	0.153	2351.73	39.103	0.168
K17-447	363.9	NULL	NULL	NULL	1555.37	0.000456	1929.54	43.116	0.0245	2215.71	32.139	0.197	NULL	NULL	NULL	2348.76	38.214	0.11
K17-447	364	1471.13	11.125	0.00125	1540.65	0.00224	1921.81	33.531	0.0113	2215.44	32.073	0.195	2241.16	18.362	0.122	2349.7	35.681	0.134
K17-447	364.2	NULL	NULL	NULL	NULL	NULL	1909.85	29.242	0.0525	2216.02	33.197	0.262	NULL	NULL	NULL	2348.49	38.749	0.161
K17-447	368.9	NULL	NULL	NULL	1539.3	0.00771	1940.13	43.155	0.0999	2217.18	32.587	0.2	2244.6	18.537	0.134	2351.72	36.347	0.145
K17-447	369	NULL	NULL	NULL	1567.68	0.00106	1916.61	34.417	0.0244	2217.25	32.556	0.216	NULL	NULL	NULL	2344.66	38.875	0.141
K17-447	374	1492.5	14.008	0.000603	1541.28	0.00097	1955.5	41.081	0.0134	2219.46	30.103	0.108	NULL	NULL	NULL	2352.58	35.924	0.0805
K17-447	374.1	NULL	NULL	NULL	NULL	NULL	1910.78	34.764	0.038	2215.44	33.306	0.246	NULL	NULL	NULL	2354.14	37.9	0.143
K17-447	378.9	NULL	NULL	NULL	NULL	NULL	1934.56	44.416	0.0198	2216.87	30.967	0.167	NULL	NULL	NULL	2344.94	37.099	0.0908
K17-447	379	1472.04	20.551	0.0027	1564.77	0.000741	1939.72	41.009	0.0344	2215.77	33.423	0.142	2251.73	20.688	0.0918	2354.99	36.122	0.11
K17-447	383.9	NULL	NULL	NULL	1541.49	0.00053	1942.79	39.462	0.0263	2217.49	30.466	0.089	NULL	NULL	NULL	2343.59	41.067	0.0632
K17-447	384	NULL	NULL	NULL	1552.42	0.000746	1948.96	42.282	0.034	2214.85	32.421	0.144	2240.11	18.495	0.0777	2349.4	36.951	0.0876
K17-447	389.1	1473.3	12.464	0.00184	1556.64	0.00205	1956.51	40.443	0.0262	2213.4	32.569	0.0747	2254.37	16.431	0.0978	2350.79	36.812	0.106
K17-447	392.9	NULL	NULL	NULL	1566.6	0.00104	1947.09	45.261	0.0424	2215.66	32.022	0.0836	2256.15	17.465	0.0948	2349.5	34.179	0.104
K17-447	393	1473	11.795	0.00201	1546.12	0.00261	1909.45	31.26	0.0514	2216.75	33.2	0.281	NULL	NULL	NULL	2350.41	38.3	0.175
K17-447	393.1	NULL	NULL	NULL	1557.01	0.00131	1914.36	34.413	0.0329	2216.85	33.837	0.324	NULL	NULL	NULL	2347.09	39.37	0.194
K17-447	395.3	NULL	NULL	NULL	1548.64	0.00133	1957.18	38.818	0.0154	2217.6	31.607	0.146	2249.68	20.613	0.106	2358.27	36.228	0.12
K17-447	395.4	1470.09	12.048	0.00395	1548.59	0.00294	NULL	NULL	NULL	2216.46	32.137	0.116	2246.67	20.127	0.0987	2346.8	33.063	0.116
K17-447	395.5	NULL	NULL	NULL	1555.02	0.0152	1958.94	31.657	0.0331	2227.26	29.065	0.0502	2256.37	19.564	0.129	2355.93	35.18	0.134
K17-447	400.2	NULL	NULL	NULL	NULL	NULL	1949.73	40.426	0.0237	2220.43	30.027	0.104	2253.18	18.978	0.093	2348.36	39.822	0.125
K17-447	405	1470.1	14.386	0.00708	1538.67	0.000489	1939.33	44.015	0.0248	2217.57	30.506	0.124	NULL	NULL	NULL	2346.74	37.663	0.0673
K17-447	0	1472.64	14.07	0.00246	1556.19	0.00087	1918.38	46.826	0.0157	2217.18	32.322	0.176	NULL	NULL	NULL	2349.74	37.562	0.114
K17-447	405.7	1473.94	13.505	0.00156	1553.77	0.00128	1954.21	44.307	0.0157	2218.56	30.803	0.161	2242.97	20.751	0.103	2353.07	36.425	0.117
K17-447	405.7	NULL	NULL	NULL	1557.12	0.0103	1951.79	39.134	0.0453	2218.34	32.188	0.205	2250.81	20.399	0.168	2350.77	37.808	0.172
K17-447	409.9	NULL	NULL	NULL	1552.72	0.00339	1917.48	50.102	0.0295	2216.82	32.756	0.188	2249.2	21.114	0.118	2350.69	37.466	0.146
K17-447	410	NULL	NULL	NULL	1556.53	0.000604	1932.48	43.741	0.0393	2216.26	33.178	0.243	NULL	NULL	NULL	2349.97	39.039	0.148
K17-447	410.1	NULL	NULL	NULL	NULL	NULL	1932.27	45.124	0.142	2211.32	31.808	0.0458	2240.29	16.629	0.0192	2340.78	38.816	0.0199
K17-447	410.2	1470.31	10.506	0.00202	1547.63	0.0028	1909	33.895	0.0226	2217.97	31.472	0.342	NULL	NULL	NULL	2349.92	37.852	0.216
K17-447	412	NULL	NULL	NULL	1558.57	0.00227	1932.64	41.717	0.0363	2217.9	33.217	0.308	NULL	NULL	NULL	2348.34	39.903	0.195
K17-447	417.9	1471.92	16.396	0.00279	1552.14	0.00076	1919.77	37.669	0.0287	2216.53	32.882	0.258	NULL	NULL	NULL	2351.31	38.922	0.155
K17-447	417.9	NULL	NULL	NULL	1538.24	0.00163	1917.65	37.844	0.0292	2216.99	33.218	0.312	NULL	NULL	NULL	2351.35	39.452	0.194

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-447	418	NULL	NULL	NULL	1551.77	0.0017	1913.51	36.06	0.0464	2218.64	33.032	0.382	NULL	NULL	NULL	2352.34	40.45	0.246
K17-447	419.1	NULL	NULL	NULL	1538.76	0.00268	1935.29	47.431	0.0639	2217.85	32.192	0.277	NULL	NULL	NULL	2349.09	38.641	0.179
K17-447	419.2	NULL	NULL	NULL	1564.88	0.00044	1913.46	40.457	0.0564	2217.2	33.065	0.361	NULL	NULL	NULL	2349.68	38.91	0.228
K17-447	411	1472.64	8.754	0.00104	1556.27	0.000463	1918.72	38.804	0.0329	2216.08	33.516	0.334	NULL	NULL	NULL	2349.13	38.758	0.209
K17-447	422.1	NULL	NULL	NULL	1537.54	0.00933	1943.14	46.496	0.0314	2217.32	30.188	0.0507	NULL	NULL	NULL	2339.17	35.772	0.099
K17-447	422.1	1473.88	14.612	0.00362	1547.68	0.000468	1927.93	47.031	0.0591	2216.95	32.766	0.285	NULL	NULL	NULL	2350.53	38.797	0.174
K17-447	422.1	NULL	NULL	NULL	1559.74	0.00053	1925.57	44.364	0.0359	2214.71	34.252	0.277	NULL	NULL	NULL	2350.67	38.679	0.165
K17-447	422.1	NULL	NULL	NULL	1548.77	0.000732	1938.34	46.119	0.0371	2214.1	34.271	0.249	NULL	NULL	NULL	2350.38	38.197	0.152
K17-447	422.1	NULL	NULL	NULL	NULL	NULL	1921.51	45.579	0.0306	2212.64	34.675	0.27	NULL	NULL	NULL	2347.82	38.824	0.153
K17-447	0	NULL	NULL	NULL	NULL	NULL	1937.5	44.91	0.038	2211.8	34.519	0.218	NULL	NULL	NULL	2344.68	39.788	0.14
K17-447	0	NULL	NULL	NULL	1555.58	0.00419	1948.89	44.148	0.0499	NULL	NULL	NULL	2256.05	20.946	0.0982	2336.76	37.852	0.112
K17-447	426.66	NULL	NULL	NULL	NULL	NULL	1940.84	39.115	0.0915	2212.52	34.41	0.276	NULL	NULL	NULL	2343.95	39.102	0.163
K17-447	426.7	NULL	NULL	NULL	1551.74	0.00219	1913.48	36.258	0.0271	2212.83	34.234	0.357	NULL	NULL	NULL	2350.51	37.714	0.218
K17-447	426.8	NULL	NULL	NULL	1549.75	0.00174	1909.67	33.485	0.0575	2212.81	35.212	0.405	NULL	NULL	NULL	2350.87	39.896	0.256
K17-447	427	NULL	NULL	NULL	1546.77	0.00148	1912.2	35.689	0.0351	2214.7	33.874	0.283	NULL	NULL	NULL	2348.69	38.968	0.166
K17-447	430	NULL	NULL	NULL	NULL	NULL	1910	34.215	0.0436	2212.01	34.866	0.324	NULL	NULL	NULL	2348.18	38.613	0.198
K17-447	430.1	NULL	NULL	NULL	NULL	NULL	1911.33	35.991	0.101	2213.75	34.588	0.3	NULL	NULL	NULL	2350.47	39.431	0.175
K17-447	431	NULL	NULL	NULL	1545.77	0.000871	1909.76	35.058	0.0696	2210.42	32.403	0.353	NULL	NULL	NULL	2352.73	38.905	0.197
K17-447	434.8	NULL	NULL	NULL	1560.73	0.000636	1930.82	45.432	0.0427	2214.6	33.91	0.341	NULL	NULL	NULL	2350.05	38.407	0.202
K17-447	434.9	NULL	NULL	NULL	1546.73	0.00037	1918.97	38.725	0.0329	2214.4	33.76	0.333	NULL	NULL	NULL	2352.11	38.819	0.2
K17-447	437.9	NULL	NULL	NULL	1563.66	0.00135	1919.19	36.596	0.0286	2213.41	33.122	0.248	NULL	NULL	NULL	2352.15	37.884	0.148
K17-447	438	NULL	NULL	NULL	1539.16	0.00126	1911.07	33.704	0.0238	2216.51	32.689	0.313	NULL	NULL	NULL	2349.11	38.253	0.191
K17-447	441	NULL	NULL	NULL	1552.55	0.000689	1912.87	36.477	0.0311	2215.93	33.356	0.303	NULL	NULL	NULL	2353.46	38.714	0.182
K17-447	441.9	NULL	NULL	NULL	1559.37	0.00226	1912.42	38.046	0.0263	2216.56	33.836	0.391	NULL	NULL	NULL	2352.48	38.984	0.24
K17-447	441	NULL	NULL	NULL	1539.28	0.00295	1910.9	34.312	0.0619	2217.13	32.875	0.364	NULL	NULL	NULL	2349.83	38.845	0.225
K17-447	442.1	NULL	NULL	NULL	NULL	NULL	1918.05	42.334	0.0429	2216.68	32.498	0.248	NULL	NULL	NULL	2350.51	39.055	0.147
K17-447	446.9	1473.92	13.056	0.00261	1555.61	0.00064	1912.66	34.849	0.0529	2215.02	32.274	0.238	NULL	NULL	NULL	2347.41	37.525	0.133
K17-447	447	NULL	NULL	NULL	1555.6	0.000374	1915.24	35.958	0.0418	2216.19	32.059	0.215	NULL	NULL	NULL	2351.18	38.628	0.123
K17-447	447.1	NULL	NULL	NULL	NULL	NULL	1912.62	35.372	0.0594	2216.31	34.244	0.355	NULL	NULL	NULL	2350.77	39.59	0.217
K17-447	450.9	NULL	NULL	NULL	1565.81	0.000606	1917.61	38.769	0.0577	2216.01	33.046	0.346	NULL	NULL	NULL	2351.38	38.223	0.208
K17-447	451	NULL	NULL	NULL	NULL	NULL	1911.93	36.899	0.0723	2212.64	33.896	0.247	NULL	NULL	NULL	2349.7	38.407	0.141
K17-447	415.5	NULL	NULL	NULL	1559.35	0.000297	1917.76	35.68	0.0196	2213.46	33.467	0.239	NULL	NULL	NULL	2347.76	37.207	0.14
K17-447	0	NULL	NULL	NULL	1552.04	0.000748	1933.27	46.333	0.0259	2211.38	33.125	0.211	NULL	NULL	NULL	2347.9	36.689	0.119
K17-449	0	NULL	NULL	NULL	NULL	NULL	1924.01	39.488	0.0546	2209.61	33.116	0.155	NULL	NULL	NULL	2345.55	38.792	0.0909
K17-449	8.02	NULL	NULL	NULL	1537.67	0.00215	1937.46	40.77	0.0231	2206.91	32.394	0.206	NULL	NULL	NULL	2346.45	38.637	0.109
K17-449	13.04	1470.43	12.038	0.00408	1557.16	0.0015	1921.19	41.314	0.0177	2208.28	32.789	0.23	NULL	NULL	NULL	2348.62	38.342	0.135
K17-449	16.87	NULL	NULL	NULL	1553.22	0.000962	1918.66	36.608	0.0248	2208.41	32.959	0.176	NULL	NULL	NULL	2343.32	39.911	0.0856

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-449	17.61	NULL	NULL	NULL	1548.38	0.00428	1921.31	46.976	0.0197	2208.91	32.52	0.245	NULL	NULL	NULL	2349.85	36.662	0.139
K17-449	17.74	NULL	NULL	NULL	1551.55	0.00633	1920.74	46.091	0.0242	2208.1	32.381	0.273	NULL	NULL	NULL	2349.11	37.722	0.155
K17-449	17.77	NULL	NULL	NULL	1541.06	0.00304	1920.05	45.325	0.021	2207.97	31.702	0.205	NULL	NULL	NULL	2350.19	36.042	0.113
K17-449	17.81	NULL	NULL	NULL	1542.13	0.0053	1936.54	40.852	0.0159	2206.1	32.082	0.215	NULL	NULL	NULL	2350.91	35.414	0.12
K17-449	17.88	NULL	NULL	NULL	1547.31	0.00278	1919.12	37.584	0.0168	2207.01	32.151	0.228	NULL	NULL	NULL	2349.88	36.658	0.127
K17-449	17.9	NULL	NULL	NULL	1546.91	0.00241	1920.25	37.144	0.0183	2206.15	31.528	0.224	NULL	NULL	NULL	2348	36.148	0.125
K17-449	18.04	NULL	NULL	NULL	1550.6	0.00297	1917.73	45.356	0.0437	2208.01	31.051	0.321	NULL	NULL	NULL	2349.24	38.076	0.179
K17-449	23.01	NULL	NULL	NULL	1552.8	0.00477	1942.5	42.862	0.0505	2208.07	33.056	0.206	2249.9	21.292	0.0785	2349.48	37.983	0.129
K17-449	28.1	NULL	NULL	NULL	1552.43	0.00454	1919.91	40.611	0.0167	2210.23	32.944	0.187	2249.97	20.557	0.0784	2350.08	36.271	0.132
K17-449	29.27	NULL	NULL	NULL	1551.7	0.00453	1911.78	35.242	0.0284	2208.7	33.942	0.25	NULL	NULL	NULL	2350.83	38.79	0.137
K17-449	0	NULL	NULL	NULL	1552.4	0.000886	1934.07	44.907	0.0127	2209.26	33.19	0.176	NULL	NULL	NULL	2345.79	37.875	0.0957
K17-449	0	1472.99	14.073	0.0239	1541.95	0.0257	1911.58	30.111	0.0415	2220.3	30.624	0.084	2255.53	19.815	0.133	2339.47	35.504	0.196
K17-449	33.03	NULL	NULL	NULL	1551.74	0.0106	1958.42	23.606	0.0273	NULL	NULL	NULL	2253.38	19.216	0.178	2343.09	37.365	0.272
K17-449	35.45	NULL	NULL	NULL	1557.63	0.0132	1952.18	32.819	0.0402	NULL	NULL	NULL	2251.81	17.927	0.193	2338.78	39.165	0.245
K17-449	37.98	NULL	NULL	NULL	1552.76	0.012	1956.89	30.553	0.0392	NULL	NULL	NULL	2252.91	19.581	0.174	2340.24	36.676	0.239
K17-449	42.6	1473.34	10.494	0.00246	1550.45	0.00645	1954.43	25.64	0.0251	2219.09	30.838	0.12	2252.95	18.808	0.127	2342.7	37.304	0.139
K17-449	42.62	NULL	NULL	NULL	1539.64	0.00785	1955.98	26.023	0.0327	2214.39	33.017	0.159	2249.55	18.943	0.121	2335.25	38.244	0.139
K17-449	47.98	NULL	NULL	NULL	1549.26	0.00168	1912.16	35.761	0.0482	2209.42	32.096	0.257	NULL	NULL	NULL	2347.2	38.322	0.151
K17-449	53.02	NULL	NULL	NULL	1543.39	0.00815	1910.46	28.837	0.0262	2208.07	33.084	0.318	NULL	NULL	NULL	2348.09	38.624	0.18
K17-449	58.04	NULL	NULL	NULL	1548.27	0.00675	1910.17	28.445	0.0295	2207.39	33.403	0.345	NULL	NULL	NULL	2346.91	38.956	0.201
K17-449	62.98	NULL	NULL	NULL	1541.82	0.00353	1918.05	38.882	0.0213	2206.55	31.986	0.246	NULL	NULL	NULL	2346.81	37.566	0.139
K17-449	68.03	NULL	NULL	NULL	1549.91	0.00785	1912.72	26.481	0.0208	2205.77	31.803	0.342	NULL	NULL	NULL	2347.04	38.658	0.197
K17-449	73.02	NULL	NULL	NULL	1543.63	0.0051	1912.21	33.669	0.0499	2207.58	28.994	0.252	NULL	NULL	NULL	2347.66	40.932	0.0996
K17-449	77.99	NULL	NULL	NULL	1556.42	0.00116	1920.53	46.218	0.0461	2207.75	33.101	0.237	NULL	NULL	NULL	2349.72	38.237	0.144
K17-449	81.24	NULL	NULL	NULL	1542.96	0.00051	1913.3	35.045	0.0752	2208.66	29.871	0.166	NULL	NULL	NULL	2350.51	37.284	0.0877
K17-449	81.84	NULL	NULL	NULL	1544.52	0.00047	1911.84	35.642	0.116	2207.89	32.261	0.238	NULL	NULL	NULL	2347.74	37.888	0.122
K17-449	82.04	NULL	NULL	NULL	1551.56	0.00141	1910.16	32.54	0.145	2206.59	33.07	0.299	NULL	NULL	NULL	2346.73	38.969	0.162
K17-449	87.12	NULL	NULL	NULL	1541.51	0.000433	1916.9	44.875	0.0489	2205.33	32.144	0.158	2240.3	17.532	0.0685	2344.23	40.368	0.0989
K17-449	92.02	NULL	NULL	NULL	1548.56	0.00139	1912.62	29.088	0.0192	2204.23	31.511	0.197	NULL	NULL	NULL	2345.78	37.533	0.115
K17-449	94.89	NULL	NULL	NULL	1566.51	0.00423	1909.51	29.562	0.0608	2206.46	33.421	0.17	2250.1	20.916	0.0916	2351.75	36.606	0.126
K17-449	94.96	NULL	NULL	NULL	NULL	NULL	1909.59	32.138	0.212	2206.68	31.408	0.327	NULL	NULL	NULL	2346.8	39.141	0.148
K17-449	95.05	NULL	NULL	NULL	1556.5	0.000192	1909.92	31.588	0.128	2206.35	31.446	0.27	NULL	NULL	NULL	2346.69	38.737	0.122
K17-449	95.19	NULL	NULL	NULL	1540.76	0.01	1909.56	30.457	0.142	2204.59	32.508	0.154	2252.6	19.396	0.0605	2342.45	39.728	0.111
K17-449	95.16	1491.65	15.872	0.000769	1552.81	0.00124	1939.36	40.485	0.0489	2215.77	32.34	0.283	NULL	NULL	NULL	2350.63	37.616	0.174
K17-449	99.99	NULL	NULL	NULL	1554.29	0.000913	1938.84	40.959	0.0223	2216.23	32.202	0.192	NULL	NULL	NULL	2347.73	37.797	0.116
K17-449	105.03	1470.03	9.386	0.00174	1550.51	0.00107	1924.18	45.138	0.0213	2215.5	32.342	0.241	NULL	NULL	NULL	2349.58	38.143	0.141
K17-449	0	NULL	NULL	NULL	NULL	NULL	1915.31	37.339	0.0356	2213.77	33.465	0.225	NULL	NULL	NULL	2348.01	38.149	0.128

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-449	0	NULL	NULL	NULL	1555	0.00253	1918.44	36.536	0.0149	2214.41	33.045	0.319	NULL	NULL	NULL	2349.9	37.634	0.192
K17-449	108.4	NULL	NULL	NULL	1539.18	0.00241	1941.88	38.502	0.069	2215.29	32.776	0.256	NULL	NULL	NULL	2348.74	37.857	0.144
K17-449	110.61	NULL	NULL	NULL	1556.16	0.00327	1949.48	39.103	0.0292	2216.97	31.325	0.0586	2253.87	17.358	0.0935	2349.44	38.392	0.107
K17-449	114.82	1471.96	13.342	0.000532	1556.49	0.000711	1932.99	42.551	0.0278	2216.73	30.619	0.12	NULL	NULL	NULL	2350.11	36.93	0.0736
K17-449	115.09	NULL	NULL	NULL	1556.81	0.000582	1936.21	44.643	0.0218	2217.01	30.351	0.129	2243.79	18.902	0.0639	2347.5	37.266	0.0783
K17-449	120.06	NULL	NULL	NULL	NULL	NULL	1923.76	44.651	0.057	2215.55	33.332	0.28	NULL	NULL	NULL	2347.93	39.172	0.163
K17-449	125.03	NULL	NULL	NULL	NULL	NULL	1921.15	44.195	0.034	2213.1	33.372	0.256	NULL	NULL	NULL	2352.09	37.723	0.147
K17-449	127.11	NULL	NULL	NULL	1548.78	0.00175	1937.22	42.26	0.0286	2212.61	33.779	0.31	NULL	NULL	NULL	2349.11	37.485	0.185
K17-449	127.61	NULL	NULL	NULL	1553.69	0.000439	1930.57	46.041	0.0302	2211.28	34.164	0.277	NULL	NULL	NULL	2347.48	38.395	0.165
K17-449	129.97	NULL	NULL	NULL	1560.28	0.000577	1936.28	45.03	0.0386	2212.43	33.596	0.286	NULL	NULL	NULL	2349.61	36.918	0.171
K17-449	0	NULL	NULL	NULL	1554.92	0.00108	1936.87	45.433	0.0413	2212.05	33.645	0.292	NULL	NULL	NULL	2349.24	37.078	0.17
K17-449	0	NULL	NULL	NULL	1557.04	0.00045	1938.03	43.117	0.0294	2212.79	32.95	0.163	NULL	NULL	NULL	2347.02	37.003	0.0887
K17-449	132.1	NULL	NULL	NULL	1547.92	0.000553	1937.26	44.482	0.0335	2213.68	33.001	0.201	NULL	NULL	NULL	2349.53	36.078	0.118
K17-449	135.1	1473.81	19.469	0.000337	1565.9	0.000334	1937.68	43.581	0.0197	2214.88	32.116	0.238	NULL	NULL	NULL	2348.88	35.474	0.143
K17-449	137.5	NULL	NULL	NULL	NULL	NULL	1931.64	46.578	0.032	2214.57	33.505	0.254	NULL	NULL	NULL	2348.43	38.762	0.147
K17-449	140.1	NULL	NULL	NULL	1559.62	0.000485	1923.01	40.474	0.0249	2215.85	33.023	0.275	NULL	NULL	NULL	2351.58	38.322	0.163
K17-449	143.1	NULL	NULL	NULL	1555.91	0.00121	1916.07	38.602	0.0288	2215.18	32.755	0.298	NULL	NULL	NULL	2352.97	37.024	0.181
K17-449	146.2	NULL	NULL	NULL	1567.36	0.000504	1919.7	43.064	0.0185	2216.24	32.719	0.302	NULL	NULL	NULL	2349.22	37.44	0.181
K17-449	149	NULL	NULL	NULL	1556.94	0.000796	1917.94	39.791	0.0224	2215.39	33.098	0.296	NULL	NULL	NULL	2349.93	38.117	0.185
K17-449	152.1	NULL	NULL	NULL	1554.9	0.00122	1927.82	46.118	0.0519	2215.35	33.278	0.344	NULL	NULL	NULL	2349.87	38.132	0.212
K17-449	155	1470.12	13.188	0.00124	1547.63	0.000836	1920.19	40.112	0.0166	2214.21	32.808	0.264	NULL	NULL	NULL	2351.02	36.883	0.162
K17-449	158	NULL	NULL	NULL	1546.24	0.00187	1925.11	43.424	0.043	2213.2	33.848	0.306	NULL	NULL	NULL	2348.33	38.514	0.185
K17-449	161	1470.12	10.947	0.00166	1566.24	0.00108	1936.74	43.436	0.0244	2214.31	33.472	0.346	NULL	NULL	NULL	2349.28	37.2	0.219
K17-449	163.9	1473.5	15.666	0.00599	1538.41	0.00111	1918.93	39.268	0.0389	2212.98	33.912	0.294	NULL	NULL	NULL	2348.79	38.006	0.173
K17-449	167	NULL	NULL	NULL	1537.35	0.00123	1916.09	39.834	0.0371	2211.53	33.843	0.285	NULL	NULL	NULL	2349.73	38.127	0.165
K17-449	170	NULL	NULL	NULL	1540.76	0.000922	1939.84	44.017	0.0288	2210.45	34.051	0.279	NULL	NULL	NULL	2347.25	37.672	0.165
K17-449	173	NULL	NULL	NULL	1564.29	0.000574	1918.93	36.662	0.0449	2212.08	34.187	0.288	NULL	NULL	NULL	2350.27	38.006	0.171
K17-449	176	NULL	NULL	NULL	NULL	NULL	1928.57	46.844	0.0612	2211.19	33.98	0.204	NULL	NULL	NULL	2347.45	38.497	0.12
K17-449	178	NULL	NULL	NULL	NULL	NULL	1913.4	37.07	0.0911	2210.39	34.239	0.308	NULL	NULL	NULL	2347.23	39.298	0.171
K17-449	179.1	NULL	NULL	NULL	NULL	NULL	1912.22	36.363	0.0659	2210.85	34.108	0.319	NULL	NULL	NULL	2349.21	37.532	0.191
K17-449	182	NULL	NULL	NULL	1552.74	0.000614	1935.94	46.634	0.0206	2209.61	33.404	0.172	NULL	NULL	NULL	2350.71	36.246	0.101
K17-449	185	1498	16.304	0.000359	1557.68	0.00167	1920.92	35.205	0.0167	2209.54	33.053	0.195	2241.13	18.676	0.0727	2349.44	36.526	0.126
K17-449	186.5	1473.25	16.712	0.000754	1558.52	0.000777	1921.31	46.953	0.0263	2208.82	32.732	0.135	NULL	NULL	NULL	2349.95	36.939	0.0899
K17-449	190	1470.25	17.184	0.00214	1565.7	0.000858	1935.67	44.089	0.0241	2207.02	32.058	0.0459	2250.13	17.762	0.032	2346.58	35.876	0.0488
K17-449	193.1	NULL	NULL	NULL	1537.39	0.000882	1920.06	41.517	0.0297	2207.24	33.047	0.203	NULL	NULL	NULL	2347.92	37.258	0.113
K17-449	196	NULL	NULL	NULL	1561.82	0.00103	1913.72	40.319	0.0355	2207.64	29.614	0.29	NULL	NULL	NULL	2348.82	36.965	0.148
K17-449	199	NULL	NULL	NULL	1546.5	0.00514	1918.04	36.188	0.0144	2206.87	32.868	0.32	NULL	NULL	NULL	2346.66	37.771	0.19

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-449	202	1475.53	14.735	0.00316	1546.11	0.00236	1927.29	44.566	0.0168	2207.79	32.13	0.247	NULL	NULL	NULL	2348.24	35.912	0.14
K17-449	205.1	NULL	NULL	NULL	1558.94	0.000636	1940.56	46.724	0.017	2207.53	31.888	0.0853	2241.68	18.972	0.0213	2344.35	39.103	0.0522
K17-449	208	NULL	NULL	NULL	1557.06	0.000735	1938.54	42.853	0.0292	2207.37	31.417	0.149	NULL	NULL	NULL	2347.28	37.482	0.083
K17-449	211	NULL	NULL	NULL	NULL	NULL	1940.86	44.132	0.0169	2212.83	33.596	0.029	NULL	NULL	NULL	2326.79	38.235	0.0704
K17-449	211.6	NULL	NULL	NULL	1556.29	0.00132	1921.19	43.049	0.0296	2207.78	29.882	0.19	NULL	NULL	NULL	2349.23	35.846	0.0986
K17-449	214.1	NULL	NULL	NULL	1546.32	0.0032	1937.15	45.108	0.0416	2208.16	32.276	0.183	2243.13	18.246	0.0528	2350.73	37.07	0.111
K17-449	217	NULL	NULL	NULL	1538.09	0.00289	1944.49	43.082	0.0145	2207.71	31.67	0.0938	2246.65	20.979	0.0269	2350.26	32.979	0.0658
K17-449	220.1	1473.34	17.224	0.000589	1558.4	0.00287	1951.1	39.71	0.0153	2208.93	31.298	0.0922	2252.29	19.569	0.0475	2350.89	34.526	0.0785
K17-449	222.4	1471.6	14.343	0.00176	1555.74	0.00363	1950.24	35.144	0.0138	2209.55	32.261	0.0893	2245.48	17.248	0.0533	2349.85	34.812	0.07
K17-449	226	NULL	NULL	NULL	1541.6	0.00152	1938.2	33.54	0.017	2210.67	33.201	0.049	2253.39	16.121	0.0463	2349.8	35.943	0.0482
K17-449	228.9	1496.62	21.91	0.00056	1557.86	0.00362	1954.99	37.462	0.00817	2212.77	31.888	0.0755	2251.13	18.713	0.0409	2355.22	34.835	0.0631
K17-449	232	NULL	NULL	NULL	1556.74	0.00367	1948.04	36.027	0.0077	2212.45	31.857	0.12	2248.5	19.861	0.0498	2349.57	35.712	0.0872
K17-449	234.2	NULL	NULL	NULL	1554.6	0.0142	1955.25	24.054	0.0438	NULL	NULL	NULL	2253.52	19.577	0.178	2338.58	36.437	0.16
K17-449	235.2	1473	12.853	0.00423	1556.59	0.0134	1959.89	26.232	0.0475	NULL	NULL	NULL	2253.7	19.109	0.223	2345.61	34.916	0.213
K17-449	237.4	NULL	NULL	NULL	1555.12	0.0205	NULL	NULL	NULL	2218.22	31.998	0.162	2251.71	17.519	0.234	2344.99	35.623	0.252
K17-449	238.4	NULL	NULL	NULL	NULL	NULL	1946.28	45.897	0.129	NULL	NULL	NULL	2255.77	22.398	0.0856	2337.09	35.85	0.181
K17-449	240.2	NULL	NULL	NULL	1555.7	0.0134	1913.25	30.579	0.138	NULL	NULL	NULL	2252.27	19.193	0.19	2338.88	36.773	0.232
K17-449	0	NULL	NULL	NULL	1556.56	0.0201	1914.62	45.331	0.0565	NULL	NULL	NULL	2251.58	17.582	0.194	2339.09	38.929	0.275
K17-449	0	NULL	NULL	NULL	1557.41	0.00123	1913.25	31.273	0.0624	2215.08	32.454	0.205	NULL	NULL	NULL	2346.54	39.411	0.168
K17-449	241.1	NULL	NULL	NULL	1539.72	0.0138	1924.67	43.748	0.0831	2214.8	34.321	0.139	NULL	NULL	NULL	2349.77	37.539	0.12
K17-449	242.3	NULL	NULL	NULL	1539.91	0.00301	1918.44	38.966	0.0797	2212.25	31.545	0.181	NULL	NULL	NULL	2348.31	39.128	0.112
K17-449	245.3	NULL	NULL	NULL	1558.9	0.000906	1917.07	37.518	0.0478	2214.71	32.986	0.237	NULL	NULL	NULL	2349.41	37.36	0.145
K17-449	247.2	1473.76	14.606	0.00179	1540.42	0.00121	1927.44	40.088	0.0194	2214.59	32.723	0.167	2248.8	20.891	0.0927	2351.82	38.289	0.121
K17-449	249.6	NULL	NULL	NULL	1544.52	0.000693	1918.9	37.392	0.0344	2215.54	33.051	0.294	NULL	NULL	NULL	2348.03	38.511	0.177
K17-449	252.7	NULL	NULL	NULL	1543.84	0.00109	1940.12	40.757	0.0418	2211.9	33.576	0.315	NULL	NULL	NULL	2350.27	37.869	0.189
K17-449	255	NULL	NULL	NULL	1540.41	0.00349	1915.49	39.256	0.0422	2212.09	34.166	0.309	NULL	NULL	NULL	2350.3	38.605	0.177
K17-449	257.1	NULL	NULL	NULL	1546.68	0.000872	1939.81	42.088	0.0417	2212.95	33.548	0.251	NULL	NULL	NULL	2350.05	37.635	0.152
K17-449	259.4	NULL	NULL	NULL	1550.18	0.00275	1940.57	37.372	0.0517	2213.38	33.961	0.34	NULL	NULL	NULL	2348.8	38.483	0.202
K17-449	262.4	NULL	NULL	NULL	1553.53	0.000779	1937.72	42.935	0.0367	2214.14	33.239	0.156	NULL	NULL	NULL	2349.92	37.687	0.0952
K17-449	267.4	NULL	NULL	NULL	1558.19	0.00308	1936.62	43.931	0.0625	2211.94	33.895	0.219	NULL	NULL	NULL	2347.89	38.205	0.133
K17-449	272.4	1473.56	14.75	0.0115	NULL	NULL	1913.69	32.991	0.0761	2210.76	34.236	0.277	NULL	NULL	NULL	2344.98	38.378	0.165
K17-449	0	NULL	NULL	NULL	NULL	NULL	1919.09	43.42	0.0405	2212.26	33.917	0.213	NULL	NULL	NULL	2342	41.567	0.11
K17-449	275.4	NULL	NULL	NULL	NULL	NULL	1917.31	39.571	0.0451	2212.89	34.24	0.265	NULL	NULL	NULL	2346.71	39.969	0.147
K17-449	278.4	NULL	NULL	NULL	1541.54	0.000506	1937.89	46.871	0.0836	2213.46	33.759	0.244	NULL	NULL	NULL	2348.01	37.676	0.142
K17-449	281.3	NULL	NULL	NULL	1547.93	0.00158	1913.37	36.54	0.0449	2214.06	34.181	0.308	NULL	NULL	NULL	2352.71	39.009	0.183
K17-449	284.3	NULL	NULL	NULL	1551.89	0.00126	1913.39	36.504	0.056	2212.83	34.132	0.304	NULL	NULL	NULL	2350.27	38.314	0.183
K17-449	287.4	NULL	NULL	NULL	1551.59	0.000716	1920.02	36.186	0.026	2213.2	33.369	0.288	NULL	NULL	NULL	2349.97	37.568	0.174

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-449	290.4	1473.79	13.66	0.00175	1540.68	0.001	1918.35	36.86	0.0261	2214.31	33.513	0.266	NULL	NULL	NULL	2349.62	37.306	0.16
K17-449	295.4	1473.32	10.889	0.00192	1564.09	0.000531	1917.54	36.458	0.0338	2211.94	34.122	0.279	NULL	NULL	NULL	2350.86	38.097	0.168
K17-449	300.4	1473.73	11.865	0.00299	1547.51	0.00197	1910.93	35.447	0.0617	2209.77	34.829	0.35	NULL	NULL	NULL	2350.77	39.792	0.203
K17-449	300.6	NULL	NULL	NULL	NULL	NULL	1912.36	34.932	0.125	2209.97	34.372	0.349	NULL	NULL	NULL	2349.65	38.882	0.205
K17-449	303.5	NULL	NULL	NULL	NULL	NULL	1913.43	35.929	0.0549	2211.43	34.787	0.264	NULL	NULL	NULL	2346.82	39.035	0.151
K17-449	306.5	NULL	NULL	NULL	NULL	NULL	1911.73	34.778	0.0553	2210.71	34.758	0.307	NULL	NULL	NULL	2350.46	39.371	0.183
K17-449	309.5	NULL	NULL	NULL	1561.37	0.00192	1915.14	40.612	0.064	2212.03	33.523	0.168	2246.63	20.348	0.0789	2344.56	37.489	0.12
K17-449	312.4	NULL	NULL	NULL	1564.57	0.000669	1935.29	44.528	0.0353	2209.61	33.674	0.177	NULL	NULL	NULL	2348.15	36.219	0.105
K17-449	315.3	NULL	NULL	NULL	1541.02	0.00127	1936.63	44.503	0.025	2209.17	33.258	0.158	NULL	NULL	NULL	2344.3	36.38	0.0902
K17-449	0	NULL	NULL	NULL	NULL	NULL	1922.77	41.187	0.0432	2207.55	31.623	0.211	NULL	NULL	NULL	2347.96	35.989	0.113
K17-449	317.3	NULL	NULL	NULL	1562.63	0.000399	1912.86	36.646	0.0573	2208.19	32.613	0.196	NULL	NULL	NULL	2348.81	37.368	0.117
K17-449	322.2	NULL	NULL	NULL	NULL	NULL	1938.54	42.061	0.0555	2211.13	33.532	0.307	NULL	NULL	NULL	2349.75	36.866	0.188
K17-449	327.3	NULL	NULL	NULL	1548.13	0.00381	1907.44	31.553	0.0336	2211.73	33.988	0.289	NULL	NULL	NULL	2349.4	38.255	0.165
K17-449	330	1472.41	13.795	0.00131	1546.94	0.0009	1943.23	39.163	0.0375	2217.36	33.057	0.0219	2253.2	17.588	0.0457	2352.55	37.244	0.0475
K17-449	335.3	1471.46	10.209	0.00101	1563.1	0.000782	1948.84	38.892	0.0111	2210.36	31.673	0.0679	NULL	NULL	NULL	2336.58	39.152	0.0477
K17-449	339.2	1472.31	14.989	0.00153	1546.81	0.00309	1935.21	33.284	0.0136	2211.49	31.895	0.105	2251.25	20.014	0.0418	2348.88	33.754	0.0791
K17-449	342.2	NULL	NULL	NULL	1557.74	0.00529	1952.26	41.023	0.0176	2207.27	32.308	0.157	2250.9	19.633	0.0652	2346.76	36.712	0.11
K17-449	345.2	NULL	NULL	NULL	1551.42	0.00888	1950.91	42.002	0.0244	2212.19	33.336	0.203	2243.25	19.348	0.0837	2350.6	37.104	0.135
K17-449	348.2	NULL	NULL	NULL	1544.82	0.014	1955.53	23.903	0.0411	NULL	NULL	NULL	2252.89	18.681	0.158	2341.5	36.14	0.148
K17-449	351	NULL	NULL	NULL	1556.73	0.0248	1911.48	33.672	0.152	NULL	NULL	NULL	2254.06	20.166	0.149	2338.04	40.705	0.279
K17-449	354.3	1471.08	14.699	0.00872	1539.34	0.00593	1921.88	33.47	0.00871	2217.29	29.805	0.0734	2251.93	20.176	0.0495	2341.29	38.266	0.101
K17-449	357.2	1497.37	26.157	0.000199	1557.42	0.000815	1919.82	36.238	0.0149	2216.4	31.086	0.211	NULL	NULL	NULL	2354.7	35.669	0.131
K17-449	0	NULL	NULL	NULL	1561.63	0.000951	1918.14	37.133	0.0232	2217.17	31.261	0.223	NULL	NULL	NULL	2351.02	37.094	0.137
K17-449	360.1	NULL	NULL	NULL	1548.01	0.00617	1920.93	37.825	0.0254	2217.42	29.246	0.132	NULL	NULL	NULL	2352.48	35.99	0.0685
K17-449	363.1	NULL	NULL	NULL	NULL	NULL	1932.73	47.006	0.0548	2209.07	32.557	0.14	2243.88	11.831	0.029	2339.62	39.044	0.108
K17-449	366.2	1471.03	15.042	0.00336	1553.46	0.00249	1933.95	42.309	0.0118	2208.96	31.623	0.105	NULL	NULL	NULL	2354.25	35.25	0.0479
K17-449	367.9	NULL	NULL	NULL	1551.53	0.000639	1935.36	43.53	0.0115	2213.44	32.529	0.117	NULL	NULL	NULL	NULL	NULL	NULL
K17-449	369.3	1470.27	12.823	0.00104	1549.27	0.00056	1934.93	42.697	0.0141	2215.86	32.13	0.189	NULL	NULL	NULL	2349.92	37.029	0.115
K17-449	372.2	NULL	NULL	NULL	1561.33	0.00079	1910.47	34.168	0.0366	2214.69	33.456	0.195	NULL	NULL	NULL	2350.44	37.856	0.114
K17-449	374.4	NULL	NULL	NULL	1555.5	0.00168	1922.53	40.647	0.0233	2216.42	32.224	0.267	NULL	NULL	NULL	2349.34	37.18	0.171
K17-449	375.2	NULL	NULL	NULL	1554.51	0.000711	1939.44	45.742	0.0552	2216.09	32.064	0.236	NULL	NULL	NULL	2350.36	36.998	0.142
K17-449	378.2	1473.9	14.595	0.00312	1557.92	0.00107	1921.41	43.695	0.0301	2216.63	31.321	0.168	NULL	NULL	NULL	2348.66	38.067	0.103
K17-449	381.1	NULL	NULL	NULL	NULL	NULL	1931.75	46.182	0.283	2181.73	28.02	0.0128	2258.51	11.348	0.00102	2327.35	21.596	0.00331
K17-449	0	NULL	NULL	NULL	1547.71	0.00241	1911.22	36.617	0.102	2213.31	33.643	0.359	NULL	NULL	NULL	2350.42	38.261	0.212
K17-449	384.2	1473.24	16.284	0.00548	1538.99	0.000996	1928.01	43.157	0.0381	2220.54	29.06	0.133	NULL	NULL	NULL	2347.6	38.876	0.0757
K17-449	387.4	NULL	NULL	NULL	1548.16	0.00155	1940.53	36.368	0.0844	2221.76	28.316	0.201	NULL	NULL	NULL	2349.99	39.087	0.115
K17-449	390.4	NULL	NULL	NULL	1539.75	0.00148	1941.05	40.436	0.0506	2205.04	32.547	0.263	NULL	NULL	NULL	2349.09	37.051	0.144

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-449	393.4	1472.71	14.19	0.00351	1544.29	0.000589	1928.7	41.645	0.0261	2217.7	31.345	0.197	NULL	NULL	NULL	2348.2	38.579	0.134
K17-449	396.4	NULL	NULL	NULL	1540.91	0.00356	1921.63	43.475	0.0864	2216.83	32.323	0.213	NULL	NULL	NULL	2348.46	37.827	0.159
K17-449	399.5	NULL	NULL	NULL	1550.63	0.0119	1948.92	43.364	0.0583	NULL	NULL	NULL	2253.3	18.762	0.163	2342.18	36.815	0.234
K17-449	400.4	NULL	NULL	NULL	1562.16	0.00651	1949.92	42.33	0.045	2221.11	29.939	0.118	2251.03	19.279	0.143	2344.21	39.376	0.153
K17-449	402.4	NULL	NULL	NULL	NULL	NULL	1936.85	45.09	0.0509	2219.96	29.256	0.276	NULL	NULL	NULL	2350.22	36.974	0.166
K17-449	405.4	1473.29	12.587	0.00192	1563.99	0.000479	1921.3	39.465	0.0302	2221.8	27.689	0.33	NULL	NULL	NULL	2349.52	37.678	0.21
K17-449	406.7	NULL	NULL	NULL	1551.6	0.00614	1914.37	35.637	0.0163	2215.31	34.597	0.444	NULL	NULL	NULL	2349.39	40.081	0.28
K17-449	407.1	NULL	NULL	NULL	1538.33	0.0107	1942.74	35.105	0.206	2215.41	33.495	0.378	NULL	NULL	NULL	2349.18	38.526	0.218
K17-449	406.9	NULL	NULL	NULL	1540.15	0.00494	1926.48	40.137	0.102	2217.55	32.036	0.315	NULL	NULL	NULL	2347.66	39.544	0.186
K17-449	409.3	1473.37	12.724	0.00281	1551.67	0.00184	1925.49	41.773	0.0687	2217.15	32.522	0.409	NULL	NULL	NULL	2348.71	39.251	0.262
K17-449	412.4	NULL	NULL	NULL	NULL	NULL	1944.36	44.309	0.0116	2217.31	32.4	0.301	NULL	NULL	NULL	2343.72	39.585	0.175
K17-449	0	1472.29	15.615	0.00234	1540.51	0.00155	1937.02	40.128	0.0242	2215.29	32.48	0.254	NULL	NULL	NULL	2347.7	36.561	0.155
K17-449	414.5	NULL	NULL	NULL	NULL	NULL	1936.83	44.053	0.149	2216.15	33.248	0.382	NULL	NULL	NULL	2350.47	38.571	0.231
K17-449	416	NULL	NULL	NULL	NULL	NULL	1929.79	37.913	0.0249	2219.18	30.63	0.242	NULL	NULL	NULL	2350.91	38.302	0.146
K17-449	417.2	NULL	NULL	NULL	1548.08	0.000769	1911.37	33.499	0.0421	2212.86	34.634	0.381	NULL	NULL	NULL	2351.17	38.942	0.231
K17-449	420.5	NULL	NULL	NULL	1538.23	0.00107	1912.75	35.51	0.0174	2202.92	30.823	0.358	NULL	NULL	NULL	2348.9	37.139	0.194
K17-449	423.3	NULL	NULL	NULL	NULL	NULL	1909.39	32.54	0.188	2206.67	32.615	0.493	NULL	NULL	NULL	2349.08	37.898	0.298
K17-449	426.4	NULL	NULL	NULL	1539.71	0.00142	1929.17	42.407	0.0489	2211.16	33.748	0.285	NULL	NULL	NULL	2349.54	37.735	0.162
K17-449	429.4	1471.02	16.099	0.0163	NULL	NULL	1930.3	48.802	0.0532	2215.85	32.187	0.0464	2254.31	17.346	0.0807	2344.41	39.395	0.0957
K17-449	432.4	1472.4	15.454	0.00402	NULL	NULL	1932.23	46.453	0.0601	2215.49	32.498	0.259	NULL	NULL	NULL	2348.44	37.483	0.155
K17-449	433.7	NULL	NULL	NULL	1558.88	0.000272	1935.33	43.978	0.047	2213.53	33.14	0.26	NULL	NULL	NULL	2347.95	36.928	0.158
K17-449	435.4	NULL	NULL	NULL	1539.22	0.000767	1941.41	40.917	0.0434	2212.52	33.571	0.327	NULL	NULL	NULL	2349.63	37.647	0.197
K17-449	436.9	NULL	NULL	NULL	1567.46	0.000312	1938.06	43.417	0.0379	2212.72	33.363	0.199	NULL	NULL	NULL	2346.99	38.103	0.117
K17-449	438.2	NULL	NULL	NULL	NULL	NULL	1939.99	41.797	0.113	2211.37	33.081	0.295	NULL	NULL	NULL	2346.21	39.534	0.179
K17-449	0	NULL	NULL	NULL	NULL	NULL	1933.4	47.273	0.0528	2212.86	33.913	0.297	NULL	NULL	NULL	2348.71	37.996	0.175
K17-449	441.4	NULL	NULL	NULL	NULL	NULL	1939.42	40.393	0.217	2212.65	33.68	0.32	NULL	NULL	NULL	2347.93	37.273	0.163
K17-449	444.3	NULL	NULL	NULL	1564.35	0.000564	1935.32	46.083	0.052	2212.63	33.91	0.311	NULL	NULL	NULL	2349.08	37.454	0.185
K17-449	445.5	NULL	NULL	NULL	NULL	NULL	1939.49	46.141	0.0814	2212.16	33.663	0.261	NULL	NULL	NULL	2348.61	38.161	0.145
K17-449	450.4	NULL	NULL	NULL	1554.65	0.000368	1938.37	45.769	0.055	2213.74	33.166	0.238	NULL	NULL	NULL	2349.06	37.479	0.14
K17-449	454.4	NULL	NULL	NULL	1540.09	0.00165	1938.44	44.952	0.0225	2216.33	31.606	0.119	NULL	NULL	NULL	2345.28	39.023	0.0808
K17-449	459.3	NULL	NULL	NULL	NULL	NULL	1941.23	39.803	0.0912	2214.12	33.258	0.289	NULL	NULL	NULL	2350.1	37.784	0.168
K17-449	462.3	NULL	NULL	NULL	1555.34	0.000392	1933.48	46.027	0.0432	2215.6	32.817	0.297	NULL	NULL	NULL	2347.94	38.001	0.18
K17-449	465.3	NULL	NULL	NULL	NULL	NULL	1943.85	44.522	0.0145	2217.66	30.093	0.112	2243.67	18.11	0.0558	2346.53	38.112	0.0649
K17-449	467	NULL	NULL	NULL	1551.69	0.00132	1936.04	42.859	0.0161	2216.23	32.67	0.384	NULL	NULL	NULL	2350.6	37.616	0.23
K17-449	0	NULL	NULL	NULL	NULL	NULL	1918.34	40.189	0.117	2212.76	32.093	0.217	NULL	NULL	NULL	2349.79	37.758	0.114
K17-449	468.3	NULL	NULL	NULL	1562.84	0.00151	1918.59	45.981	0.0617	2211.79	33.858	0.184	2243.99	19.312	0.0845	2348.2	38.232	0.108
K17-449	471.3	NULL	NULL	NULL	1555.72	0.000666	1942.12	44.134	0.0846	2209.94	33.868	0.271	NULL	NULL	NULL	2348.82	36.978	0.164

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-449	473.3	NULL	NULL	NULL	NULL	NULL	1936.87	45.372	0.0374	2209.93	34.142	0.183	NULL	NULL	NULL	2346.26	39.308	0.102
K17-449	474.3	NULL	NULL	NULL	NULL	NULL	1912.58	40.426	0.138	2210.33	33.485	0.251	NULL	NULL	NULL	2348.47	38.196	0.135
K17-449	477.3	NULL	NULL	NULL	1561.78	0.000768	1940.81	39.6	0.0339	2209.76	33.137	0.181	NULL	NULL	NULL	2350.98	35.686	0.104
K17-449	480.3	NULL	NULL	NULL	1550.12	0.000426	1917.73	37.405	0.0418	2208.67	32.467	0.226	NULL	NULL	NULL	2347.69	37.328	0.127
K17-449	485.3	NULL	NULL	NULL	1554.25	0.000454	1939.2	44.469	0.0626	2209.95	34.055	0.263	NULL	NULL	NULL	2346.98	37.417	0.147
K17-449	490.3	NULL	NULL	NULL	NULL	NULL	1941.63	42.757	0.0631	2209.62	33.875	0.266	NULL	NULL	NULL	2349.4	36.831	0.154
K17-449	493.3	NULL	NULL	NULL	NULL	NULL	1938.72	42.783	0.0508	2211.02	34.648	0.243	NULL	NULL	NULL	2351.19	38.988	0.134
K17-449	496.3	NULL	NULL	NULL	NULL	NULL	1922.32	47.595	0.0463	2211.44	34.455	0.214	NULL	NULL	NULL	2347.85	38.536	0.117
K17-449	499.3	NULL	NULL	NULL	1554.31	0.000937	1920.13	42.436	0.0464	2211	34.203	0.3	NULL	NULL	NULL	2350.18	38.376	0.178
K17-449	501.6	NULL	NULL	NULL	1553.88	0.000668	1939.9	43.209	0.0339	2207.53	33.625	0.262	NULL	NULL	NULL	2347.23	38.047	0.145
K17-449	502.3	1492.6	12.041	0.000759	1547.39	0.000774	1934.77	46.566	0.0221	2206.54	32.904	0.209	NULL	NULL	NULL	2349.16	37.471	0.116
K17-449	505.3	1470.16	13.637	0.00189	1555.79	0.000567	1914.21	34.286	0.0383	2207.02	33.104	0.242	NULL	NULL	NULL	2347.43	37.966	0.128
K17-449	508.5	1473.16	15.762	0.00074	NULL	NULL	1943.19	37.229	0.0446	2206.46	32.38	0.154	NULL	NULL	NULL	2346.18	36.044	0.0819
K17-449	511.3	NULL	NULL	NULL	1548.52	0.000534	1911.09	39.834	0.0745	2203.3	31.414	0.292	NULL	NULL	NULL	2348.37	38.506	0.161
K17-449	514.3	NULL	NULL	NULL	1544.69	0.00094	1932.95	47.397	0.0502	2205.19	30.939	0.138	NULL	NULL	NULL	2342.1	39.4	0.0761
K17-449	517.3	NULL	NULL	NULL	1542.9	0.00403	1941.86	41.984	0.0266	2205.78	32.395	0.163	2252.17	21.741	0.0654	2343.96	37.942	0.108
K17-449	520.2	NULL	NULL	NULL	1538.64	0.0019	1934.22	43.812	0.0386	2205.72	33.135	0.196	NULL	NULL	NULL	2346.78	38.604	0.108
K17-449	0	NULL	NULL	NULL	1553.48	0.00321	1920.85	43.325	0.0415	2206.43	32.915	0.3	NULL	NULL	NULL	2348.44	38.285	0.172
K17-449	520.7	1470.72	12.022	0.00202	1565.32	0.000379	1920.78	46.405	0.0251	2210.98	32.388	0.105	2242.26	18.751	0.0382	2349.07	40.29	0.0676
K17-449	523.3	1470.33	18.142	0.0135	1567.57	0.0149	NULL	NULL	NULL	2183.32	25.532	0.0259	2246.95	10.696	0.0216	2356.7	20.447	0.0226
K17-449	528.3	NULL	NULL	NULL	1566.1	0.025	1923.06	29.463	0.047	2219.76	32.343	0.0528	2249.48	14.369	0.0487	2330.8	24.399	0.0461
K17-449	533.3	1487.88	14.26	0.00052	1543.15	0.00102	1934.03	34.39	0.0189	NULL	NULL	NULL	2242.33	16.062	0.0218	2330.93	24.874	0.0144
K17-449	538.3	1494.8	16.047	0.000927	1542.63	0.00102	1942.38	34.069	0.0808	2212.46	33.508	0.137	NULL	NULL	NULL	2350.71	35.08	0.0696
K17-449	543.3	NULL	NULL	NULL	1565.68	0.00054	1939.53	41.086	0.0262	2202.6	30.514	0.0161	2244.02	13.446	0.0132	2323.3	27.668	0.0079
K17-449	548.3	1487.74	14.971	0.00063	NULL	NULL	1947.8	34.976	0.00771	2215.36	26.265	0.0227	2244.14	16.301	0.0212	2321.69	36.264	0.0176
K17-449	551.3	1481.65	15.261	0.000664	1565.56	0.0031	1943.71	21.984	0.00404	2225.29	28.076	0.0354	2244.95	14.101	0.0336	2316.79	31.086	0.0343
K17-449	554.3	1475.73	10.67	0.00054	1546.71	0.000654	1958	34.627	0.00383	NULL	NULL	NULL	NULL	NULL	NULL	2318.64	33.268	0.047
K17-449	557.3	1476.93	12.63	0.000282	1539.69	0.000601	1946.3	37.497	0.00782	2199.86	33.73	0.0328	2260.09	20.638	0.0309	2311.41	34.243	0.0291
K17-449	558.4	NULL	NULL	NULL	1548.61	0.000906	1913.02	35.478	0.0203	2214.18	33.183	0.22	NULL	NULL	NULL	2348.41	37.949	0.133
K17-449	560.3	NULL	NULL	NULL	1549.74	0.000916	1911.62	37.437	0.0188	2213.6	33.077	0.253	NULL	NULL	NULL	2350.9	37.017	0.147
K17-449	563.3	1470.13	12.84	0.00174	1547.24	0.000916	1924.91	42.243	0.0231	2213.97	33.763	0.253	NULL	NULL	NULL	2349.98	38.073	0.153
K17-449	566.2	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2216.79	33.451	0.328	NULL	NULL	NULL	2344.63	39.829	0.213
K17-449	568.3	NULL	NULL	NULL	NULL	NULL	1928.33	46.463	0.157	2218.32	28.585	0.0553	NULL	NULL	NULL	2342.28	35.819	0.0514
K17-449	569.3	NULL	NULL	NULL	1562.79	0.00108	1917.86	37.791	0.0152	2218.32	31.182	0.288	NULL	NULL	NULL	2348.91	37.571	0.178
K17-449	571.3	NULL	NULL	NULL	1544.33	0.00201	1924.56	40.684	0.0422	2211.93	34.675	0.359	NULL	NULL	NULL	2350.23	39.386	0.218
K17-449	572.7	NULL	NULL	NULL	1540.56	0.0059	1922.73	44.287	0.0267	2216.26	32.457	0.223	2242.67	19.162	0.123	2345.69	40.212	0.161
K17-449	573.5	NULL	NULL	NULL	1550.56	0.00329	1915.34	46.984	0.0685	2214.87	33.964	0.294	NULL	NULL	NULL	2348.54	39.343	0.187

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-449	574.8	NULL	NULL	NULL	1544.59	0.000688	1939.2	41.88	0.051	2213.31	33.571	0.211	NULL	NULL	NULL	2348.97	38.45	0.123
K17-449	576.2	NULL	NULL	NULL	NULL	NULL	1935	44.89	0.0256	2213.51	34.119	0.244	NULL	NULL	NULL	2347.55	38.741	0.147
K17-449	0	NULL	NULL	NULL	1560.22	0.000924	1929.08	45.19	0.0461	2212.79	34.207	0.296	NULL	NULL	NULL	2348.05	39.289	0.175
K17-449	576.8	NULL	NULL	NULL	NULL	NULL	1914.5	37.212	0.256	2203.5	32.964	0.132	NULL	NULL	NULL	2342.88	39.221	0.0453
K17-449	579.3	NULL	NULL	NULL	1556.6	0.00133	1948.8	42.18	0.0188	2215.73	31.417	0.0589	2252.93	17.68	0.0612	2349.58	37.185	0.0787
K17-449	579.6	NULL	NULL	NULL	1540.4	0.00462	1942.4	44.346	0.0308	2212.4	33.944	0.138	NULL	NULL	NULL	2340.76	39.156	0.0935
K17-449	582.3	NULL	NULL	NULL	1567.45	0.000584	1937.94	44.832	0.0566	2210.4	33.47	0.205	NULL	NULL	NULL	2351.4	36.967	0.112
K17-449	583.2	NULL	NULL	NULL	NULL	NULL	1937.32	44.326	0.0545	2210.31	34.479	0.27	NULL	NULL	NULL	2347.14	39.272	0.154
K17-449	585.3	1472.9	15.238	0.00672	1547.89	0.000825	1936.92	45.061	0.0738	2213.47	33.845	0.234	NULL	NULL	NULL	2347.8	38.904	0.137
K17-449	587.2	1472.53	16.468	0.000709	1564.15	0.000482	1934.81	45.589	0.0233	2216.25	30.853	0.154	2241.53	19.139	0.0782	2350.26	37.449	0.115
K17-449	590.3	NULL	NULL	NULL	NULL	NULL	1935.06	46.333	0.0501	2216.35	33.519	0.296	NULL	NULL	NULL	2346.77	39.211	0.18
K17-449	593.2	NULL	NULL	NULL	NULL	NULL	1920.15	40.127	0.0572	2214.77	34.695	0.351	NULL	NULL	NULL	2347.82	39.596	0.214
K17-449	596.3	NULL	NULL	NULL	1547.64	0.000678	1939.76	44.184	0.0747	NULL	NULL	NULL	2251.12	17.226	0.0783	2332.13	37.653	0.115
K17-449	599.3	1474.85	15.815	0.0014	1564.24	0.0008	1921.24	41.18	0.0248	2214.01	33.046	0.275	NULL	NULL	NULL	2350.35	36.38	0.163
K17-449	601.7	NULL	NULL	NULL	1557.12	0.00115	1927.72	42.763	0.0387	2212.57	33.457	0.273	NULL	NULL	NULL	2349.39	37.061	0.165
K17-449	602.4	NULL	NULL	NULL	1541.67	0.00141	1914.54	38.488	0.0494	2212.41	33.078	0.161	NULL	NULL	NULL	2346.53	38.505	0.106
K17-449	0	NULL	NULL	NULL	1550.4	0.00348	1912.56	35.035	0.096	2214.25	34.074	0.338	NULL	NULL	NULL	2346.51	39.028	0.21
K17-449	605.3	NULL	NULL	NULL	1542.6	0.00379	1938.55	44.522	0.112	2213.34	33.983	0.331	NULL	NULL	NULL	2349.45	38.005	0.2
K17-449	608.3	NULL	NULL	NULL	1541.49	0.00141	1937.09	45.523	0.106	2213.23	33.104	0.248	NULL	NULL	NULL	2348.94	37.953	0.146
K17-449	611.3	NULL	NULL	NULL	1543.04	0.00413	1938.86	39.205	0.0393	2208.62	33.054	0.296	NULL	NULL	NULL	2349.9	37.28	0.173
K17-449	614.3	NULL	NULL	NULL	NULL	NULL	1938.02	43.662	0.0407	2206.25	29.715	0.104	2241.15	10.763	0.0219	2345.91	34.457	0.0473
K17-449	617.3	NULL	NULL	NULL	1553.31	0.000473	1945.97	45.667	0.037	2210.71	31.262	0.0331	NULL	NULL	NULL	2325.96	43.194	0.135
K17-449	618.4	NULL	NULL	NULL	1542.18	0.00216	1926	30.144	0.00922	2209.12	32.498	0.239	NULL	NULL	NULL	2346.65	37.315	0.129
K17-449	620.2	NULL	NULL	NULL	1542.63	0.00308	1940.41	38.039	0.0339	2209.8	31.943	0.221	NULL	NULL	NULL	2348.93	35.419	0.125
K17-449	623.3	NULL	NULL	NULL	1543.1	0.00784	1912.3	30.32	0.00983	2208.33	32.698	0.313	NULL	NULL	NULL	2349.68	37.738	0.187
K17-449	625.3	NULL	NULL	NULL	1556.13	0.00178	1952.76	34.72	0.0177	2226.88	29.147	0.0238	2253.93	18.153	0.0893	2347.75	36.045	0.105
K17-449	626.3	NULL	NULL	NULL	1566.33	0.000947	1917.67	36.076	0.0233	2216.76	31.907	0.178	NULL	NULL	NULL	2352.11	36.818	0.125
K17-449	629.3	NULL	NULL	NULL	1555.22	0.000629	1950.26	38.728	0.0153	2228.56	26.646	0.0199	2250.88	19.023	0.0274	2323.66	32.985	0.0387
K17-449	632.3	1493.56	13.055	0.00065	1567.06	0.000932	1956.02	44.596	0.00917	2222.21	24.995	0.0298	2254.42	15.088	0.0378	2337.09	34.384	0.0364
K17-449	635.3	1474.73	21.654	0.00156	1564.65	0.000532	1946.64	35.575	0.0137	2209.05	28.065	0.042	2240.8	16.524	0.0404	2325.03	29.696	0.0369
K17-449	638.3	NULL	NULL	NULL	NULL	NULL	1938.07	29.141	0.00412	2228.52	27.127	0.0818	2242.42	19.368	0.0783	2302.77	37.474	0.0671
K17-449	641.3	NULL	NULL	NULL	1550.82	0.000938	1912.49	33.954	0.016	2217.75	32.415	0.29	NULL	NULL	NULL	2347.47	38.126	0.179
K17-449	644.3	NULL	NULL	NULL	1550.94	0.014	1957.61	20.272	0.0381	2220.66	30.653	0.162	2250.36	18.661	0.208	2344.77	38.149	0.228
K17-449	647.3	NULL	NULL	NULL	1553.26	0.00849	NULL	NULL	NULL	2223.91	29.089	0.12	2251.6	18.372	0.164	2343.24	36.624	0.193
K17-449	650.3	NULL	NULL	NULL	1547.38	0.00623	1959.56	30.932	0.0324	2224.08	27.749	0.108	2252.29	18.79	0.168	2341.42	37.921	0.182
K17-449	653.3	NULL	NULL	NULL	1546.38	0.00735	1957.42	39.139	0.0215	NULL	NULL	NULL	2251.2	17.141	0.168	2335.53	39.039	0.226
K17-449	656.3	1470.18	18.746	0.0319	1537.75	0.0177	1942.63	37.724	0.218	2219.17	28.255	0.111	2242.96	18.863	0.0481	2354.71	29.936	0.0333

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-449	659.4	NULL	NULL	NULL	1552.34	0.00297	1949.69	28.681	0.0128	NULL	NULL	NULL	2254.93	19.473	0.0849	2347.25	36.804	0.0882
K17-449	0	NULL	NULL	NULL	1554.25	0.00175	1936.68	33.474	0.0378	2217.35	28.507	0.0491	2240.56	12.734	0.0405	2339.75	35.578	0.028
K17-449	662.3	NULL	NULL	NULL	1559.99	0.0109	1940.78	41.034	0.0247	2214.44	28.424	0.0432	2244.52	16.863	0.0296	2338	34.698	0.024
K17-449	664.9	1470.22	9.629	0.00204	1550.66	0.00282	1949.66	22.258	0.0187	2217.1	32.15	0.0696	2249.14	20.62	0.0613	2343.55	36.197	0.0813
K17-449	668.4	1484.15	12.11	0.00901	1561.32	0.0115	1936.51	33.805	0.0294	2215.76	29.61	0.0432	2248.96	13.934	0.0354	2322.73	34.609	0.0316
K17-449	669.2	NULL	NULL	NULL	1550.04	0.0106	1941.56	36.62	0.0298	2214.32	29.419	0.0312	2254.36	15.459	0.0264	2320.43	24.941	0.0319
K17-449	671.4	NULL	NULL	NULL	NULL	NULL	1916.47	38.907	0.167	2217.59	32.948	0.292	NULL	NULL	NULL	2348.37	39.283	0.177
K17-449	674.5	NULL	NULL	NULL	1540.22	0.00102	1941.13	39.991	0.0275	2215.57	32.12	0.0778	2250.98	19.893	0.0606	2344.09	35.989	0.0757
K17-449	677.4	NULL	NULL	NULL	1558.72	0.000563	1917.88	39.561	0.0775	2220.19	31.363	0.314	NULL	NULL	NULL	2351.71	39.673	0.195
K17-449	680.5	NULL	NULL	NULL	1559.5	0.000723	1937.53	41.306	0.0287	2217.13	32.386	0.0693	2251.43	19.4	0.0425	2344.86	38.331	0.0593
K17-449	682.7	NULL	NULL	NULL	1559.08	0.000801	1911.12	35.048	0.121	2220.2	31.132	0.394	NULL	NULL	NULL	2351.25	39.738	0.245
K17-449	0	NULL	NULL	NULL	1540.91	0.00174	1939.76	40.336	0.084	2219.93	30.517	0.256	NULL	NULL	NULL	2349.46	39.256	0.142
K17-449	683.9	NULL	NULL	NULL	1548.72	0.00101	1912.29	40.09	0.123	2216.84	32.644	0.303	NULL	NULL	NULL	2347.09	38.378	0.185
K17-449	686.3	1475.51	15.975	0.000599	1557.93	0.000332	1926.73	45.388	0.0225	2218.77	29.974	0.193	NULL	NULL	NULL	2349.68	36.913	0.108
K17-449	690	NULL	NULL	NULL	1545.13	0.000385	1938.69	42.025	0.0351	2217.27	31.707	0.305	NULL	NULL	NULL	2350.32	37.228	0.185
K17-449	691.7	1497.28	26.542	0.000166	1561.06	0.000378	1931.73	45.223	0.0276	2216.23	31.605	0.211	2242.95	18.275	0.101	2348.98	37.464	0.135
K17-449	0	NULL	NULL	NULL	1558.89	0.000497	1935.67	42.061	0.0215	2216.28	31.637	0.294	NULL	NULL	NULL	2350.96	37.351	0.18
K17-449	694.7	NULL	NULL	NULL	1540.78	0.000308	1914.76	43.908	0.0599	2214.54	32.585	0.259	NULL	NULL	NULL	2349.28	37.811	0.146
K17-449	697.8	1473.8	17.809	0.000479	1544.49	0.000298	1940.17	43.571	0.0506	2215.32	31.919	0.255	NULL	NULL	NULL	2350.39	36.632	0.153
K17-449	701.1	NULL	NULL	NULL	1542.59	0.000817	1939.53	39.92	0.0506	2214.4	33.733	0.195	NULL	NULL	NULL	2349.47	37.47	0.106
K17-449	703.5	NULL	NULL	NULL	1539.94	0.00892	1933.53	44.975	0.0782	2213.14	34.572	0.262	NULL	NULL	NULL	2348.21	38.817	0.151
K17-449	706.2	NULL	NULL	NULL	1544.48	0.00291	1940.48	46.613	0.0587	2212.6	32.947	0.155	NULL	NULL	NULL	2343.78	37.938	0.0954
K17-449	709.5	NULL	NULL	NULL	1554.29	0.00076	1925.09	44.736	0.0221	2212.94	33.755	0.191	NULL	NULL	NULL	2347.98	37.759	0.123
K17-449	712.5	NULL	NULL	NULL	1548.83	0.00132	1936.18	47.446	0.0338	2212.87	33.835	0.178	NULL	NULL	NULL	2350.98	38.684	0.112
K17-449	715.8	NULL	NULL	NULL	1556.76	0.000511	1910.94	31.883	0.0992	2211.97	34.132	0.26	NULL	NULL	NULL	2350.84	38.507	0.155
K17-449	718.8	NULL	NULL	NULL	NULL	NULL	1932.44	47.027	0.0262	2213.6	33.374	0.218	NULL	NULL	NULL	2351.58	37.327	0.135
K17-449	721.8	NULL	NULL	NULL	1549.86	0.000577	1916.9	38.439	0.0305	2216.01	34.044	0.308	NULL	NULL	NULL	2349.62	39.177	0.184
K17-449	724.4	NULL	NULL	NULL	1541.66	0.00182	1922.68	44.155	0.0401	2215.46	34.181	0.241	NULL	NULL	NULL	2350.4	38.783	0.148
K17-449	725.5	NULL	NULL	NULL	1558.12	0.00603	1956.17	27.317	0.0302	NULL	NULL	NULL	2254.61	19.639	0.145	2341.75	36.533	0.137
K17-449	728.9	1471.22	13.967	0.00249	1550.97	0.000772	1922	45.731	0.0535	2218.21	32.74	0.277	NULL	NULL	NULL	2353.72	38.63	0.172
K17-449	731.8	NULL	NULL	NULL	1555.7	0.000606	1911.93	35.128	0.0631	2217	33.368	0.318	NULL	NULL	NULL	2348.67	39.318	0.199
K17-449	0	1473.37	13.613	0.00119	1558.1	0.000863	1915.77	37.972	0.0238	2218.14	32.437	0.214	NULL	NULL	NULL	2346.63	39.03	0.147
K17-449	734.7	NULL	NULL	NULL	1552.96	0.00329	1955.24	39.202	0.0232	2221.46	31.878	0.0623	2254.94	19.573	0.112	2351.05	36.984	0.118
K17-449	737.4	NULL	NULL	NULL	1540.03	0.00988	1929.79	44.76	0.0904	2196	33.99	0.0184	NULL	NULL	NULL	2326.12	28.454	0.00985
K17-449	740.5	1476.45	13.685	0.000723	1556.86	0.000537	1919.45	36.158	0.0219	2214.51	33.32	0.199	NULL	NULL	NULL	2348.3	38.231	0.119
K17-449	743.6	NULL	NULL	NULL	1550.84	0.000884	1938.32	43.624	0.0809	2211.82	34.279	0.278	NULL	NULL	NULL	2348.15	38.998	0.155
K17-449	744.4	1473.25	15.446	0.00174	1556.9	0.0012	1923.41	44.711	0.0359	2210.78	34.623	0.245	NULL	NULL	NULL	2345.66	39.026	0.136

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-449	746.7	NULL	NULL	NULL	1556	0.00222	1917.65	37.452	0.0637	2209.96	35.297	0.308	NULL	NULL	NULL	2346.29	39.926	0.174
K17-449	749.7	1472.87	12.981	0.00161	1552.7	0.000759	1940.47	40.835	0.047	2209.28	34.052	0.239	NULL	NULL	NULL	2352.4	38.055	0.135
K17-449	750.2	NULL	NULL	NULL	1550.07	0.00123	1937.87	43.487	0.103	2210.83	34.687	0.278	NULL	NULL	NULL	2351.14	39.155	0.15
K17-449	750.7	NULL	NULL	NULL	1551.25	0.0018	1939.52	41.574	0.0725	2213.14	34.234	0.278	NULL	NULL	NULL	2350.53	39.053	0.152
K17-449	0	NULL	NULL	NULL	1557.83	0.000378	1913.67	35.278	0.0469	2213.49	34.149	0.349	NULL	NULL	NULL	2350.54	38.129	0.208
K17-449	751.1	NULL	NULL	NULL	1537.58	0.00342	1941.52	37.901	0.152	2206.97	19.412	0.0239	2251.59	16.959	0.096	2339.05	39.134	0.108
K17-449	751.5	1473.54	11.431	0.000812	1544.75	0.00121	1941.25	40.298	0.0289	2213.24	33.537	0.3	NULL	NULL	NULL	2350.85	36.266	0.182
K17-449	752.5	NULL	NULL	NULL	NULL	NULL	1911.12	34.467	0.189	2210.16	34.26	0.326	NULL	NULL	NULL	2344.91	39.202	0.188
K17-449	755.5	NULL	NULL	NULL	1541.85	0.00278	1941.66	38.23	0.131	2212.79	34.195	0.305	NULL	NULL	NULL	2349.54	37.167	0.171
K17-449	758.5	NULL	NULL	NULL	1549.59	0.00354	1932.44	45.762	0.0863	2211.49	34.24	0.336	NULL	NULL	NULL	2349.83	38.779	0.194
K17-449	761.5	NULL	NULL	NULL	1546.75	0.00191	1940.63	44.507	0.0927	2209.32	34.634	0.256	NULL	NULL	NULL	2345.19	39.129	0.147
K17-449	764.7	NULL	NULL	NULL	1549.47	0.00182	1940.41	47.558	0.12	2210.23	33.341	0.221	NULL	NULL	NULL	2345.64	38.242	0.129
K17-449	767.7	NULL	NULL	NULL	1566.35	0.000653	1948.89	39.937	0.03	2204.99	32.682	0.124	2242.27	15.379	0.0517	2350.11	37.191	0.0628
K17-449	770.7	1472.91	16.268	0.00528	1550.74	0.00144	1936.37	44.879	0.0247	2205.63	33.106	0.331	NULL	NULL	NULL	2346.77	38.916	0.181
K17-449	773.5	NULL	NULL	NULL	NULL	NULL	1920.58	38.681	0.0257	2205.12	32.757	0.323	NULL	NULL	NULL	2345.91	39.987	0.174
K17-449	776.4	1475.16	17.135	0.00069	1553.94	0.000922	1917.58	34.932	0.0148	2206.11	32.246	0.251	NULL	NULL	NULL	2348.88	36.489	0.143
K17-449	779.4	1471.94	21.026	0.000659	1551.65	0.00194	1922.35	47.951	0.0154	2204.12	30.733	0.252	NULL	NULL	NULL	2348.63	36.311	0.145
K17-449	780.9	1470.17	16.207	0.00121	1544.75	0.000622	1912.56	43.553	0.028	2204.68	30.628	0.175	NULL	NULL	NULL	2342.02	39.613	0.0941
K17-449	783.9	1472.66	12.514	0.00094	1548.82	0.00134	1918.64	39.324	0.0173	2204.29	31.093	0.239	NULL	NULL	NULL	2346.47	36.016	0.124
K17-449	784.7	1470.54	7.365	0.000576	1546.08	0.00306	1920.84	33.176	0.0194	2202.87	30.908	0.255	2243.51	18.327	0.0747	2344.79	39.023	0.152
K17-449	787.9	1470.65	12.786	0.00126	1545.86	0.00272	1918.53	40.621	0.0186	2202.21	30.737	0.196	2241.17	18.649	0.0547	2346.97	38.064	0.122
K17-449	790.5	1470.21	12.502	0.00685	1548.93	0.00605	1944.95	39.849	0.0408	2202.3	30.237	0.122	NULL	NULL	NULL	2347.9	34.394	0.0678
K17-449	795.7	1470.47	14.723	0.00111	1561.09	0.00059	1941.25	39.885	0.0138	2202.34	30.098	0.121	2242.41	17.544	0.0228	2347.54	35.401	0.0641
K17-449	797.9	NULL	NULL	NULL	1544.16	0.00175	1920.68	34.634	0.0233	2202.66	29.559	0.121	2240.35	15.092	0.0346	2347.03	34.468	0.0671
K17-449	799.5	1472.57	16.963	0.00224	1540.12	0.00315	1944.58	39.018	0.0311	2205.31	30.027	0.112	2249.77	20.839	0.036	2342.93	35.898	0.0642
K17-450	0	NULL	NULL	NULL	NULL	NULL	1936.74	46.659	0.0403	2201.21	32.245	0.0884	NULL	NULL	NULL	2330.67	36.387	0.0877
K17-450	4.4	1472.87	12.349	0.00646	1549.21	0.0099	1911.66	31.768	0.0616	2201.1	32.664	0.243	2240.34	19.025	0.057	2346.25	38.367	0.126
K17-450	5.5	NULL	NULL	NULL	1545.7	0.00725	1943.64	45.126	0.0208	2203.78	31.11	0.189	2242.14	19.799	0.0547	2346.47	37.779	0.105
K17-450	7.6	NULL	NULL	NULL	NULL	NULL	1939.82	46.989	0.163	NULL	NULL	NULL	NULL	NULL	NULL	2326.46	46.164	0.309
K17-450	10.5	NULL	NULL	NULL	NULL	NULL	1931.59	45.703	0.139	2192.65	34.078	0.00951	2245.88	17.284	0.0019	2316.87	24.896	0.00698
K17-450	14.3	NULL	NULL	NULL	NULL	NULL	1926.51	43.727	0.126	2205.98	33.104	0.115	NULL	NULL	NULL	2334.45	42.179	0.0547
K17-450	16.5	NULL	NULL	NULL	1539.03	0.0277	1935.35	48.989	0.182	2203.18	33.18	0.348	NULL	NULL	NULL	2348.43	38.984	0.202
K17-450	19.3	NULL	NULL	NULL	1540.7	0.0571	1941.57	47.854	0.142	2201.73	30.036	0.186	2249.16	18.847	0.118	2343.28	34.543	0.137
K17-450	19.6	1473.49	14.292	0.00673	1542.53	0.00467	1919.99	38.055	0.0429	2207.92	31.731	0.299	NULL	NULL	NULL	2346.95	36.603	0.16
K17-450	24.7	NULL	NULL	NULL	1540.8	0.0097	1943.97	41.774	0.0558	2207.59	30.816	0.207	2249.65	20.134	0.07	2348.73	36.93	0.121
K17-450	24.9	NULL	NULL	NULL	1539	0.000709	1941.32	43.114	0.0354	2211.7	30.413	0.0553	2245.61	14.936	0.0274	2329.22	32.309	0.0453
K17-450	26.9	NULL	NULL	NULL	1545.91	0.0221	1954.09	37.841	0.0526	NULL	NULL	NULL	2249.19	17.14	0.139	2335.66	35.373	0.136

EQUITY

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-450	27.7	NULL	NULL	NULL	1539.59	0.0023	1914.16	35.46	0.103	2207.23	29.564	0.245	NULL	NULL	NULL	2350.34	38.467	0.12
K17-450	30.7	NULL	NULL	NULL	1543.83	0.00615	1922.5	44.288	0.0682	2208.44	33.689	0.224	NULL	NULL	NULL	2346.18	39.192	0.114
K17-450	33.7	NULL	NULL	NULL	1546.52	0.0128	1909.78	25.056	0.0314	2208.75	32.751	0.328	NULL	NULL	NULL	2351.81	39.302	0.168
K17-450	36.7	NULL	NULL	NULL	1547.76	0.00973	1917.32	44.986	0.0518	2207.49	33.065	0.321	NULL	NULL	NULL	2347.9	38.373	0.18
K17-450	39.8	NULL	NULL	NULL	NULL	NULL	1935.63	47.403	0.0824	2208.18	30.023	0.132	2242.26	14.934	0.054	2350.26	36.919	0.0631
K17-450	42.7	NULL	NULL	NULL	1538.18	0.00191	1939.12	45.254	0.0411	2206.65	31.456	0.2	2241.98	19.835	0.075	2346.95	36.948	0.124
K17-450	45.7	1472.54	14.67	0.00112	1549.96	0.00257	1946.32	42.89	0.0216	2206.95	34.005	0.241	NULL	NULL	NULL	2350.65	38.598	0.147
K17-450	47.3	NULL	NULL	NULL	1547.89	0.00357	1909.31	31.074	0.054	2208.43	33.519	0.392	NULL	NULL	NULL	2348.54	37.884	0.224
K17-450	48.7	1470.08	10.178	0.00195	1544.05	0.00165	1918.89	41.102	0.0307	2208.78	33.718	0.251	NULL	NULL	NULL	2348.71	37.8	0.159
K17-450	0	NULL	NULL	NULL	1539.34	0.00111	1913.95	30.364	0.0398	2206.27	33.884	0.239	NULL	NULL	NULL	2350.7	38.234	0.146
K17-450	49.1	NULL	NULL	NULL	NULL	NULL	1921.67	40.103	0.0291	2206.08	33.25	0.234	2240.41	16.6	0.0972	2349.69	39.621	0.138
K17-450	52.6	NULL	NULL	NULL	1566.42	0.000908	1924.73	44.051	0.0142	2206.63	32.944	0.253	NULL	NULL	NULL	2349.95	37.972	0.144
K17-450	53.6	NULL	NULL	NULL	NULL	NULL	1918.18	45.899	0.139	2204.45	31.917	0.112	NULL	NULL	NULL	2335.36	37.471	0.115
K17-450	55.7	NULL	NULL	NULL	1538.83	0.00147	1934.44	46.629	0.0551	2207.05	33.72	0.242	2243.37	17.516	0.0995	2349.33	40.456	0.145
K17-450	58.6	NULL	NULL	NULL	1567.99	0.000959	1938.79	43.282	0.0864	2206.03	32.957	0.276	NULL	NULL	NULL	2348.91	36.99	0.162
K17-450	61.6	NULL	NULL	NULL	NULL	NULL	1920.39	46.827	0.0736	2206.17	33.278	0.243	NULL	NULL	NULL	2346.07	39.99	0.139
K17-450	64.7	NULL	NULL	NULL	1542.43	0.00143	1918.05	41.852	0.0394	2206.99	33.166	0.256	NULL	NULL	NULL	2349.76	37.837	0.162
K17-450	67.7	1473.78	21.727	0.000766	1554.92	0.0021	1952.47	44.826	0.0222	2205.62	32.758	0.142	2252.3	19.739	0.09	2344.69	38.553	0.126
K17-450	69.2	1470.82	14.988	0.00144	1560.43	0.0011	1919.32	42.44	0.014	2206.26	32.701	0.187	2244.01	18.22	0.0825	2347.56	39.195	0.115
K17-450	70.7	NULL	NULL	NULL	1555.39	0.00434	1955.94	46.893	0.0401	2205.64	34.174	0.219	2244.43	19.2	0.125	2347.77	39.358	0.162
K17-450	73.7	NULL	NULL	NULL	1542.06	0.00109	1940.44	42.737	0.0459	2207.02	32.17	0.301	NULL	NULL	NULL	2348.07	37.791	0.167
K17-450	76.6	1494.78	11.955	0.000415	1540.09	0.000893	1916.87	40.889	0.0206	2206.96	33.222	0.174	NULL	NULL	NULL	2346.35	39.136	0.125
K17-450	79.7	NULL	NULL	NULL	1551.47	0.000657	1914.45	34.956	0.0669	2203.65	31.63	0.286	NULL	NULL	NULL	2345.64	38.723	0.162
K17-450	82.7	NULL	NULL	NULL	1548.49	0.00081	1936.48	46.126	0.0698	2204.69	31.891	0.268	NULL	NULL	NULL	2346.04	38.063	0.147
K17-450	85.7	NULL	NULL	NULL	1549.62	0.00156	1937.69	46.496	0.0564	2203.67	32.453	0.192	2242.95	17.323	0.099	2339.97	41.049	0.13
K17-450	88.7	NULL	NULL	NULL	1547.08	0.00139	1921.87	44.123	0.0433	2204.99	32.026	0.215	NULL	NULL	NULL	2343.48	39.309	0.122
K17-450	0	NULL	NULL	NULL	1547.92	0.00113	1937.26	43.755	0.0485	2203.8	31.807	0.314	NULL	NULL	NULL	2344.29	40.043	0.166
K17-450	91.7	NULL	NULL	NULL	1545.57	0.000977	1940.07	45.95	0.0321	2202.93	31.45	0.294	NULL	NULL	NULL	2349.73	38.697	0.154
K17-450	93.7	NULL	NULL	NULL	1552.95	0.011	1913.57	40.467	0.118	NULL	NULL	NULL	2256.63	20.055	0.197	2342.78	37.921	0.183
K17-450	96.7	NULL	NULL	NULL	NULL	NULL	1943.38	37.256	0.108	2206.1	32.952	0.225	NULL	NULL	NULL	2342.26	41.05	0.121
K17-450	97.8	NULL	NULL	NULL	NULL	NULL	1939.39	45.205	0.0245	2205.49	33.209	0.295	NULL	NULL	NULL	2340.59	40.522	0.152
K17-450	99.7	1473.12	17.046	0.00227	1555.1	0.0014	1921.61	35.312	0.0271	2209.86	33.928	0.197	2243.35	18.571	0.0807	2346.07	38.594	0.115
K17-450	102.7	NULL	NULL	NULL	1553.42	0.00193	1916.6	35.038	0.066	2207.75	35.068	0.328	NULL	NULL	NULL	2349.34	39.437	0.203
K17-450	105.6	NULL	NULL	NULL	NULL	NULL	1924.27	41.967	0.0923	2209.16	34.992	0.332	NULL	NULL	NULL	2349.42	40.506	0.188
K17-450	108.6	1473.58	15.246	0.0149	NULL	NULL	1929.31	48.179	0.0478	2209.28	33.823	0.165	NULL	NULL	NULL	2335.74	39.547	0.113
K17-450	0	NULL	NULL	NULL	NULL	NULL	1939.37	46.863	0.0706	2208.39	34.449	0.293	NULL	NULL	NULL	2347.81	39.754	0.165
K17-450	111.7	1471.22	15.928	0.000651	1552.12	0.00134	NULL	NULL	NULL	2208.79	33.077	0.0906	2255.27	18.223	0.0778	2354.3	36.475	0.091

HOLE_ID	DEPTH (m)	w1485	width 1485	hqd 1485	w1550	hqd 1550	w1900	width 1900	hqd 1900	w2200	width 2200	hqd 2200	w2250	width 2250	hqd 2250	w2350	width 2350	hqd 2350
K17-450	114.7	NULL	NULL	NULL	1553.67	0.00113	1918.23	43.463	0.0332	2211.64	34.354	0.227	NULL	NULL	NULL	2351.71	38.293	0.143
K17-450	117.7	NULL	NULL	NULL	NULL	NULL	1942.1	36.09	0.125	2210.65	34.357	0.275	NULL	NULL	NULL	2344.8	39.604	0.167
K17-450	119.7	NULL	NULL	NULL	NULL	NULL	1933.94	48.198	0.0334	2207.83	31.433	0.099	2248.6	19.774	0.0551	2343.38	39.86	0.0865
K17-450	120.8	1470.1	10.529	0.00694	1553.46	0.00479	1941.06	46.542	0.0273	2214.89	30.997	0.14	NULL	NULL	NULL	2346.72	34.079	0.0685
K17-450	123.5	NULL	NULL	NULL	1540.47	0.00109	1942.44	39.301	0.0588	2216.31	30.202	0.164	NULL	NULL	NULL	2343.25	38.484	0.0888
K17-450	126.7	NULL	NULL	NULL	1544.2	0.00123	1929.46	44.898	0.0457	2218.22	30.49	0.26	NULL	NULL	NULL	2352.17	36.791	0.157
K17-450	129.6	NULL	NULL	NULL	NULL	NULL	1932.76	44.821	0.0394	2217.51	29.426	0.189	NULL	NULL	NULL	2349.12	35.014	0.109
K17-450	132.7	1483.79	16.065	0.0154	1548.4	0.0146	1928.9	39.637	0.0365	2212.21	31.474	0.0682	2252.43	16.322	0.0434	2357.29	24.631	0.0446
K17-450	135.6	NULL	NULL	NULL	1554.34	0.00126	1922.46	45.202	0.0101	2217.04	32.502	0.347	NULL	NULL	NULL	2347.97	37.65	0.222
K17-450	138.6	NULL	NULL	NULL	1539.72	0.00388	1938	42.447	0.0959	2211.86	33.839	0.342	NULL	NULL	NULL	2349.93	37.752	0.211
K17-450	141.7	NULL	NULL	NULL	1549.01	0.00117	1934.76	43.841	0.0238	2216.53	30.584	0.297	NULL	NULL	NULL	2351.58	35.079	0.175
K17-450	143.7	NULL	NULL	NULL	1549.2	0.000369	1938.6	44.535	0.0355	2215.42	30.715	0.13	NULL	NULL	NULL	2350.95	37.395	0.0654
K17-450	144.6	NULL	NULL	NULL	1540.73	0.00241	1932.78	45.49	0.0694	2212.86	33.994	0.199	NULL	NULL	NULL	2350.03	38.035	0.111
K17-450	146.7	NULL	NULL	NULL	1539.84	0.00355	1940.99	39.747	0.0213	2216.4	30.111	0.127	NULL	NULL	NULL	2352.1	35.286	0.069
K17-450	166.7	NULL	NULL	NULL	1546.82	0.00139	1914.73	30.063	0.0116	2215.14	32.365	0.276	NULL	NULL	NULL	2349.73	37.14	0.176
K17-450	168.7	NULL	NULL	NULL	NULL	NULL	1939.24	41.269	0.284	2212.77	32.509	0.202	NULL	NULL	NULL	2347.29	37.972	0.0884
K17-450	169.4	1473.17	14.641	0.00252	1548	0.00077	1937.03	46.123	0.0335	2215.94	31.012	0.221	NULL	NULL	NULL	2348.81	35.721	0.13
K17-450	172.4	NULL	NULL	NULL	NULL	NULL	1910.36	33.834	0.102	2211.29	32.094	0.281	NULL	NULL	NULL	2348.04	39.292	0.145
K17-450	175.4	1470.64	11.721	0.00277	1539.76	0.00131	1921.78	41.104	0.0111	2214.65	31.867	0.157	NULL	NULL	NULL	2348.18	36.08	0.0866
K17-450	178.4	NULL	NULL	NULL	1542.11	0.00272	1919.98	36.704	0.0351	2210.06	32.886	0.285	NULL	NULL	NULL	2350.25	36.288	0.163
K17-450	181.4	NULL	NULL	NULL	1544.88	0.00257	1939.97	38.19	0.0434	2212.74	34.607	0.257	NULL	NULL	NULL	2354.44	38.88	0.15

Table W-3: Column Decriptions

Column Name	Explanation
Min1 sTSAS	The primary mineral identified by The Spectral Assistant™
Wt1 sTSAS	Proportion of the spectrum explained by the primary mineral, out of 1
Min2 sTSAS	The secondary mineral identified by The Spectral Assistant™
Wt2 sTSAS	Proportion of the spectrum explained by the secondary mineral, out of 1
Min3 sTSAS	The tertiary mineral identified by The Spectral Assistant™
NIL Stat sTSAS	The proportion of the spectrum not explained by any mineral in the spectral library
Error sTSAS	A standardized measure of the error on the calculated mineral assemblage relative to the measured spectrum, based on the sum of squares method.
w1485	The wavelength of the peak absorption of the 1485 nm absorption feature, if present
width1485	The range of wavelengths that the 1485 nm absorption feature affects relative to the white reference calibration spectrum, if present
hqd1485	The hull difference quotient (a measure of the depth of the absorption feature) of the 1485 nm absorption feature, if present
w1550	The wavelength of the peak absorption of the 1550 nm absorption feature, if present
hqd1550	The hull difference quotient (a measure of the depth of the absorption feature) of the 1550 nm absorption feature, if present
w1900	The wavelength of the peak absorption of the 1900 nm absorption feature, if present
width1900	The range of wavelengths that the 1900 nm absorption feature affects relative to the white reference calibration spectrum, if present
hqd1900	The hull difference quotient (a measure of the depth of the absorption feature) of the 1900 nm absorption feature, if present
w2200	The wavelength of the peak absorption of the 2200 nm absorption feature, if present
width2200	The range of wavelengths that the 2200 nm absorption feature affects relative to the white reference calibration spectrum, if present
hqd2200	The hull difference quotient (a measure of the depth of the absorption feature) of the 2200 nm absorption feature, if present
w2250	The wavelength of the peak absorption of the 2250 nm absorption feature, if present
width2250	The range of wavelengths that the 2250 nm absorption feature affects relative to the white reference calibration spectrum, if present
hqd2250	The hull difference quotient (a measure of the depth of the absorption feature) of the 2250 nm absorption feature, if present
w2350	The wavelength of the peak absorption of the 2350 nm absorption feature, if present
width2350	The range of wavelengths that the 2350 nm absorption feature affects relative to the white reference calibration spectrum, if present
hqd2350	The hull difference quotient (a measure of the depth of the absorption feature) of the 2350 nm absorption feature, if present

Appendix W: Geologist Certificates

GEOLOGIST'S CERTIFICATE
Alexander B. Nielsen
Vancouver, B.C.

I, **Alexander B. Nielsen**, do hereby certify that:

1. I am presently a Project Geologist with Equity Exploration Consultants Ltd. with offices at Suite 1510-250 Howe Street, Vancouver, British Columbia.

2. I am a graduate of Queen's University, Ontario, Canada with a Bachelor of Science (Hons.) degree in Geology in 2009, and a graduate of Simon Fraser University, British Columbia, Canada with a Master of Science degree in Earth Science in 2012.

3. I am a Professional Geologist registered in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

4. I am one of the authors of the assessment report *2017 Geological, Geochemical, Geophysical, Diamond Drilling and Geotechnical Program Report on the Kudz Ze Kayah (KZK) Property* prepared for BMC Minerals No. 1 Ltd.

5. Since 2016, I have been a consulting geologist and have been involved in mineral exploration for gold, copper, silver, lead, and zinc in Canada since 2012

6. I was directly involved with the managing and execution of the 2017 exploration program at the KZK Property.

Dated at Vancouver, British Columbia, this 19th day of June, 2018.

Signed and Sealed

Alexander B. Nielsen, M.Sc., P.Geo

GEOLOGIST'S CERTIFICATE

Dillon H.E. Hume
8253 15th Ave
Burnaby, BC, Canada
V3N 1X7

I, **DILLON HUME**, M.Sc., G.I.T., do hereby certify that:

1. I am presently employed as a Project Geologist with Equity Exploration Consultants Ltd, with offices at Suite 1510, 250 Howe Street, Vancouver, British Columbia, Canada.
2. I am a graduate of Simon Fraser University, Burnaby, British Columbia with a Bachelor of Science degree in Earth Sciences in 2015, and a graduate of Simon Fraser University, Burnaby, British Columbia with a Master of Science degree in Earth Science in 2018.
3. I am a Geoscientist in Training (G.I.T.) in good standing with Engineers & Geoscientists British Columbia (EGBC) in the province of British Columbia.
4. Since 2011 I have been seasonally involved in mineral exploration for base metals and gold in Canada and Mexico.
5. I am one the authors of the assessment report titled "*2017 Geological, Geochemical, Geophysical, Diamond Drilling and Geotechnical Program Report on the Kudz Ze Kayah (KZK) Property"* prepared for BMC Minerals LTD.
6. I was involved with and co-managed the 2017 exploration work on the KZK Property from 23 June to 3 October 2017.

Dated 19th June 2018, at Vancouver, British Columbia.

Signed and Sealed: "*Dillon H.E. Hume*"

Dillon H.E. Hume, M.Sc., G.I.T.